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**Sturtevant**  
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# Fans, Heaters and Air Washers



A BOOK OF INFORMATION FOR  
ARCHITECTS AND ENGINEERS  
Containing Complete Tables of Capacities and  
Power Requirements of All Types and Sizes  
of Sturtevant Fans, Heaters, and Air Washers



**B. F. STURTEVANT COMPANY**  
HYDE PARK :: BOSTON :: MASSACHUSETTS  
AND ALL PRINCIPAL CITIES OF THE WORLD

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B. F. Sturtevant Company

## PURPOSE OF THIS BOOK

With the steady development of the use of fans, heaters, and air washers for all industrial purposes, there has sprung up a need for a book that will give in concise form the information required to properly select this apparatus to meet given requirements. Not an abbreviated compilation suitable for use only for a limited number of applications, but one that will give to the architect or the engineer information covering a wide range of types and sizes adapted to every industrial need.

In the compilation of this book, the B. F. Sturtevant Company have purposely avoided devoting large space to theories which are probably familiar to most architects and engineers. They have instead, devoted the book to actual information on performances.

The B. F. Sturtevant Company, building the most complete line of fans and allied apparatus as well as the largest quantity, are in a position to supply this apparatus to meet any requirements and in this book will be found the principal dimensions, capacities and horse powers over a wide range of service of their complete lines.

Knowing the requirements, it is an easy matter to select the type and size of apparatus to fulfill them to the best advantage, and also to find the principal dimensions that will aid in making the preliminary layout.

A careful reading of the explanation of tables at the beginning of each section will show clearly the basis upon which the tests were made and will aid greatly in selecting the proper apparatus.

It is with the desire to aid those whose work it is to select and apply apparatus to various industrial problems that the B. F. Sturtevant Company have gone to the great expense entailed in the publication of this book. If our friends to whom this book is loaned find it of assistance, then its object is fulfilled and the expense is warranted.



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## DEFINITIONS

**Blower or Double Inlet Fan.** A Centrifugal Blower is a cased fan wheel having two inlets for the admission of air, one on either side and each concentric with the shaft.

**Exhauster or Single Inlet Fan.** An Exhauster is of much the same construction as a Blower, but has only one inlet, and that usually in the side farthest from the pulley, engine, turbine or motor.

**Overhung Wheel Fan.** An Overhung Wheel Fan is one where the wheel is overhung upon the shaft, that is, where both of the bearings supporting the shaft are on one side of the wheel. This is usually arranged so that the pulley runs between the two bearings, and the shaft is extended through the fan casing to take the wheel. Exhausters are nearly always of the Overhung Wheel type, except in the larger sizes.

**Overhung Pulley Fan.** An Overhung Pulley Fan is one in which there is a bearing on either side of the fan wheel. The shaft being extended through one of the bearings to take the pulley which is overhung upon it. Blowers and large Exhausters are usually of the Overhung Pulley type.

**Discharge.** The discharge of a Blower or Exhauster is designated by the direction in which the air is delivered from the casing; as for instance, bottom horizontal discharge or upblast discharge.

**Hand.** The hand of a fan is that which designates upon which side of the casing the pulley or other driving apparatus is located, when one is facing the outlet of the fan. A right hand fan is one having the pulley, engine, turbine or motor on the right as one faces the outlet, and a left hand fan is one having the pulley, engine, turbine or motor on the left as one faces the outlet. An exception to the above occurs when the pulley, engine, turbine or motor is placed in the inlet of a single inlet fan, in which case the housing itself may be left hand, and yet the pulley, engine, turbine or motor may be on the right. In such cases, which are very infrequent and usually impracticable, full explanation should be given to avoid confusion.

With up or down angular discharge also the hand is determined by the location of the motor, turbine, pulley or engine, when the observer stands at the discharge end of the fan.

**Full Housing Fans.** A fan with full housing has a complete scroll or casing.

**Three-quarters and Seven-eighths Housing Fans.** When the lower portion of the scroll is dispensed with, and the fan is located upon a foundation which serves the purpose of a lower part of the casing, the fan is called three-quarters housing fan, in the Steel Plate type, and seven-eighths housing fan in the Multivane type.

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All dimensions given in this book are for approximate use, and should not be used for foundation drawings, etc. Blue Prints containing dimensions will be furnished for this work.

C.F.M. = Cubic feet per minute.

R.P.M. = Revolutions per minute.

F.P.M. = Feet per minute.

S.N.D. = Static no delivery.

O.S. Dia. = Outside diameter.

Steam Pressure = Pounds per sq. inch.

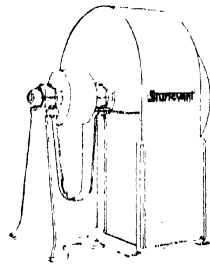
All dimensions given in inches.

# HAND AND DISCHARGE OF FANS

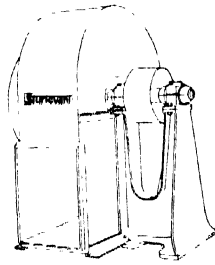
## STANDARD TYPES FOR BELT DRIVE

### Overhung Wheel

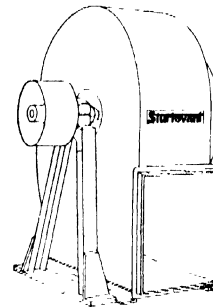
### Overhung Pulley



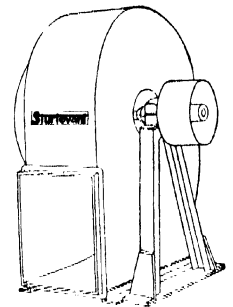
Bottom Horizontal Discharge  
Left-Hand



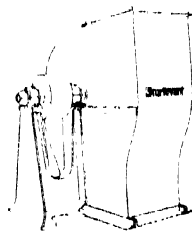
Bottom Horizontal Discharge  
Right-Hand



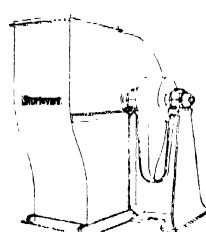
Bottom Horizontal Discharge  
Left Hand



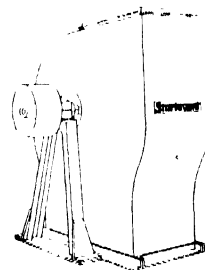
Bottom Horizontal Discharge  
Right-Hand



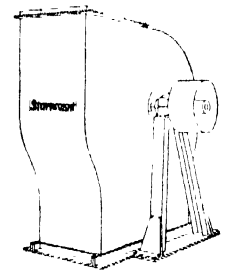
Up Blast Discharge  
Left-Hand



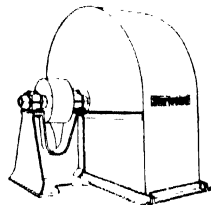
Up Blast Discharge  
Right-Hand



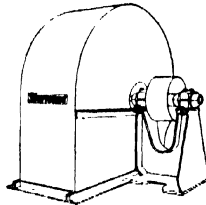
Up Blast Discharge  
Left-Hand



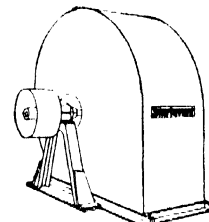
Up Blast Discharge  
Right-Hand



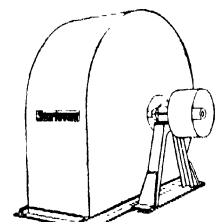
Down Blast Discharge  
Left-Hand



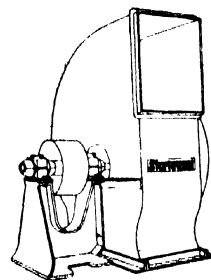
Down Blast Discharge  
Right-Hand



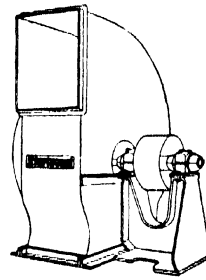
Down Blast Discharge  
Left-Hand



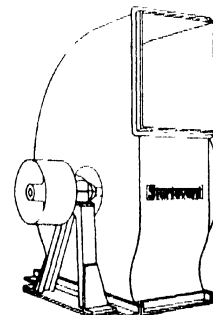
Down Blast Discharge  
Right-Hand



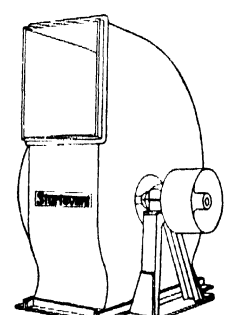
Top Horizontal Discharge  
Left-Hand



Top Horizontal Discharge  
Right-Hand



Top Horizontal Discharge  
Left-Hand



Top Horizontal Discharge  
Right-Hand

## **General Explanation of Tables**

The free delivery of air from every fan as actually installed is unavoidably retarded by the frictional resistance of the surfaces with which the moving air is in contact and by changes in its velocity and direction of motion.

In any system of conduits, the sum of all these resistances is always the same when a given volume of air, or gas at a given density, is flowing, and is generally called the "maintained resistance" of the system. It is usually referred to in terms of the static pressure required to overcome the "maintained resistance," and is measured in inches of water.

The "maintained resistance" of any system varies directly as the square of the volume delivered through the system and directly as the density of the air or gas handled.

All the capacity tables in this book give the speed and shaft horsepower required to deliver any volume against any maintained resistance within the capacity of the fan referred to.

All tables unless otherwise stated are calculated for air having a density of .075 lbs. per cubic foot, which is the density of normal air at 65° F. and at sea level, or what may be called standard air. The calculations are based in all cases upon the results of carefully conducted tests made in our testing laboratory. The volumes were determined from velocities measured, unless otherwise stated, in a pipe the size of the fan outlet, by means of a pitot tube of the pin-hole form. A sufficient number of readings of the velocity head were taken at properly located points in the pipe to determine the average velocity accurately. The static pressures were read from the static side of the same pitot tube and averaged.

### **EFFECT OF TEMPERATURE AND ALTITUDE**

The maintained resistance against which any fan at a given speed will deliver a certain volume, varies directly as the density of the air or gas handled, and the shaft horsepower required, also varies directly as the density.

Whenever it is desired to select a fan to handle air of a greater or less density than .075 lbs. per cubic foot owing to a different temperature, or altitude, or gas of a composition different from air, the above facts must be applied in using the tables.

Since the pressure varies directly with the density it follows that the table pressure under which the fan is to be chosen for a given volume at a given speed must bear the same ratio to the required pressure as does air at "normal" density to the density of the air or gas being considered. For instance, if the density of the air to be used is .5 that of standard air, then the pressure actually obtained will be only .5 of that shown in the tables. Therefore, the fan must be picked under a pressure such that .5 of it will be the pressure required, e.g., if 1" is the desired pressure with air whose density is .5 of standard air, the fan must be picked under the 2" column, then the actual pressure will be 1". Usually the reciprocal is used in finding the table pressure, that is, for the above, standard air is two times heavier than the air under consideration and the table pressure equals  $1 \times 2$  equals 2".

It is obvious that the horse-power shown under the table pressure, which is, of course, the horse-power for air at .075 density, will be too high by the same ratio as that of the densities, because the volume and speed are the same and the density, and in consequence the pressure, is the only factor that has changed. Therefore, the table horse-power must be multiplied by the ratio of density to obtain the true horse-power. In the above example the actual horse-power would be .5 of that shown in the table under the 2" pressure column.

When choosing a fan to operate at high efficiency, not only must a proper size be used but in addition the fan must run at an efficient speed. As an aid to customers we have placed black lines under certain volumes and horsepowers, and one of the performances above the black underline in any particular column should be chosen.

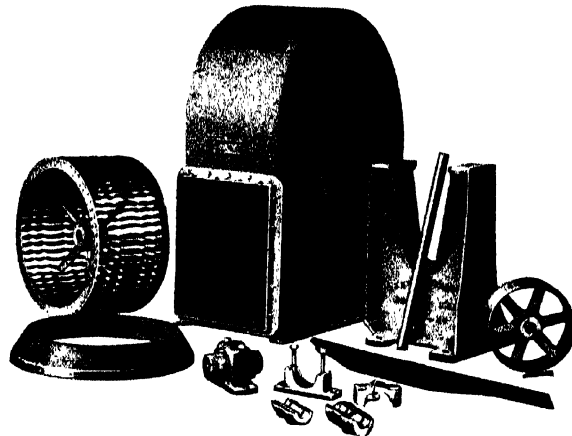
# **MULTIVANE FANS**

## **Design 2**

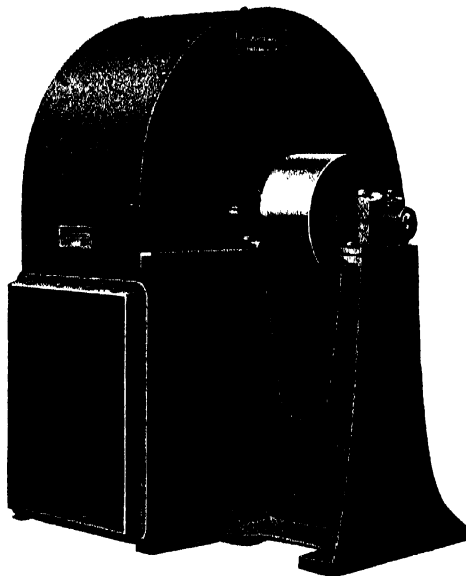
**Dimensions, Capacities, Horse Powers**



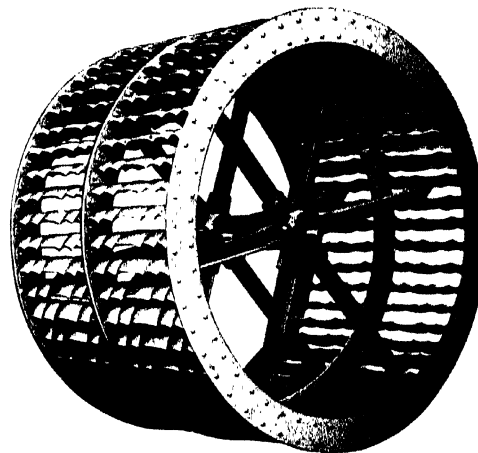
## Multivane Fan—Design 2



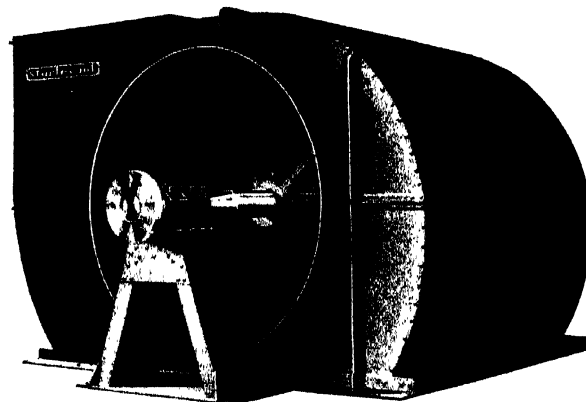
Multivane Fan—Design 2. Dissembled



Multivane Fan—Design 2. Single Width, Bottom Horizontal Discharge, Overhung Wheel



Multivane Fan — Design 2



Multivane Fan—Design 2. Double Width, Up-Blast Discharge



# MULTIVANE FAN—DESIGN 2

## SPECIFICATIONS

**General.** There shall be furnished a No. ...., design No. 2, Sturtevant Multivane Fan. It shall be made (single or double) ..... inlet, (single or double) ..... width, (right or left) ..... hand, ..... discharge and have (full or  $\frac{1}{4}$ ) ..... housing. The wheel shall be not less than ..... " diameter. The outlet shall be .... " by ..... ", the diameter of the inlet shall be ..... ". The total height of the fan housing shall be ..... ", the width in direction of shaft ..... ", and the length transverse to shaft ..... ".

The fan shall have a capacity of ..... cubic feet per minute against a resistance of ..... " water gauge either at the inlet or at the outlet (or at both taking the sum) and shall operate at approximately ..... R.P.M., requiring approximately ..... B.H.P.

**Housing.** The housing shall be of spiral form constructed of steel plate strongly braced, bolted and riveted to a rigid frame of angle irons. The side plates and round-about sheet shall be made of No. 11 gauge for fans above 45" high. The smaller sizes shall have these parts made of No. 14 gauge plate. The outlet shall be rectangular in shape and consist of angle irons bolted to the housing and arranged for connection to a discharge duct. The inlet shall be of cone shape and so constructed as to allow the wheel to be taken out through the opening caused by the removal of the cone. In the single inlet fan the side opposite the inlet shall be closed by a dished plate bolted to the side of the housing. The cutoff piece shall be made of a sheet bent 180 degrees upon itself and having the two ends bolted to the spiral sheet, thus leaving no edges of metal which can in any way be acted upon by the air issuing from the outlet so as to produce vibration, and therefore, noise at this point.

**Wheel.** The blades of the wheel shall be made of refined steel plate and spooned with spherical depressions to efficiently handle the air. The blades shall be pressed and formed while hot by means of punch and die to insure uniformity and strength in the blades throughout the wheel. The hub shall be made of cast iron having cast integral with it and emanating from it, steel arms of "T" section. The hub shall be accurately bored and fitted with keyway and set screws. The blades shall be riveted at either end to annular steel plate rings or side plates. The holes through which the blades are riveted to the side plates shall be punched to template, as well as the blades themselves, to insure the proper position of each blade in the wheel. For diameters above 46", a third annular ring shall be placed in the center of the wheel, and two hubs used instead of one. The outer ends of the "T" arms emanating from the hub shall be riveted to the center portion of the driving blades which shall be of thicker metal than the intermediate blades. The wheel shall be absolutely symmetrical either side of its center, and having no back plate can be used for either a right or left hand fan, and have either single or double inlet. The wheel shall be very carefully balanced.

**Bearings.** The bearings shall be of the spherical self-aligning ring oiled type and bolted to their support. They shall be of large diameter and built extra long to give ample bearing surface. Each bearing shall be fitted with two oil rings which feed oil on to the shaft from a large oil well located in the bottom part of the box. The bearings shall be lined with the best quality babbitt, containing upwards of 85% tin, bored and scraped to exact size.

**Shaft.** The shaft shall be made of steel forging and after the keyways are cut, shall be accurately turned and ground.

## MULTIVANE FAN—DESIGN 2

### EXPLANATION OF SPECIFICATION REQUIREMENTS

**Noise.** Special attention is called to the construction of the cut-off point, which, considering fans in general, is the seat of most noise in the nature of a sustained metallic note. Obviously any edge of metal whether directly or indirectly in the flow of air can be acted upon more or less like a reed and the design of cut-off in this fan avoids this condition.

The flow of air over the surfaces in a fan wheel and casing obviously produces any noise which may exist (a fan wheel revolving in a vacuum will produce no noise, assuming of course, proper mechanical balance in the wheel). The noise is also a function of the velocity of flow. In this fan the velocity at all points as the air passes through the wheel is lower than in the general run of fans of this type or as used for this service, thereby operating against the production of noise.

**Distribution of Work and Stresses.** The spherical depressions grip the air and prevent it from slipping along the blade to the side of the wheel opposite the inlet, thus distributing the work along the entire length of the blade.

The driving arms of the hub being attached to the center of the driving blades, in other words at a point one-half way along their axial length, produce a construction in which the stresses coming upon it in operation are perfectly distributed and balanced.

**Strength and Rigidity.** Not only is the driving effort applied at the logical and proper point but this has the added feature of holding the wheel in shape and preventing the blades from bowing out. Each blade is like a uniformly loaded beam when the fan is in operation, that is, centrifugal force is acting alike on each element of the blade. Under high speed an improperly designed wheel will first show signs of failing in the bending or bowing out of the blades at their center, which in turn moves the two side plates nearer together. Without a center support construction there is nothing to stop the movement of the side plates toward each other except the ability of the blade to resist bending (not stretching). With the center support construction, however, the driving blades are tied down at their center by their connection to the driving arms, thus producing a strut or spacing piece at each point where the driving blade is located which will not permit the side plates to move toward each other. The intermediate blades, therefore, to bulge or bow out must either stretch themselves or pull the rivets.

**Additional Strength in Larger Sizes.** In sizes No. 10 and above the center arm carries out to a much greater degree the strengthening feature of tying the blades at the center, thereby doing away with any chance of bowing out. That is, every blade in the wheel is tied down at the center. The spider arm construction with center support is considerably stronger than the usual designs of wheel supported from the back.

**Wearing Qualities.** Barring the metal of the fan itself being subjected to violent corrosion or chemical action of gases handled by the fan the brunt in the long run is borne by the shaft and bearings. Therefore, for long satisfactory service a shaft which is carefully turned and ground to gauge running in bearings containing a very high quality babbit metal is bound to show its worth.

## **Multivane Fan—Design 2**

### **EXPLANATION OF TABLES**

The capacities in the following tables are measured in a pipe having an area fifty percent greater than the fan outlet. The proportions of these fans are such that the outlet velocities are high at normal load. By expanding from the outlet to a fifty percent larger pipe a part of this velocity is transformed into useful pressure, thereby increasing the efficiency of the fan.

In cases where this expansion is not used a correction should be made by reducing the maintained resistance from the value at the head of the tables by an amount equal to forty five percent of the velocity head in the fan outlet.

For further information we refer you to the general explanation of tables at the front of the book.

## Multivane Fan—Design 2

Single Width

### APPROXIMATE WEIGHTS

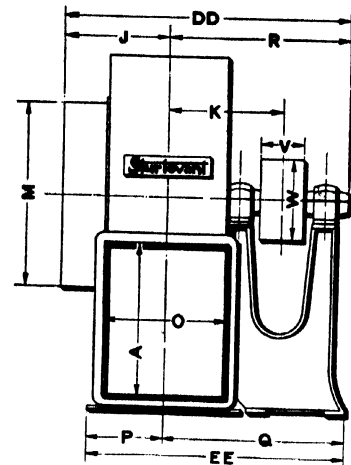
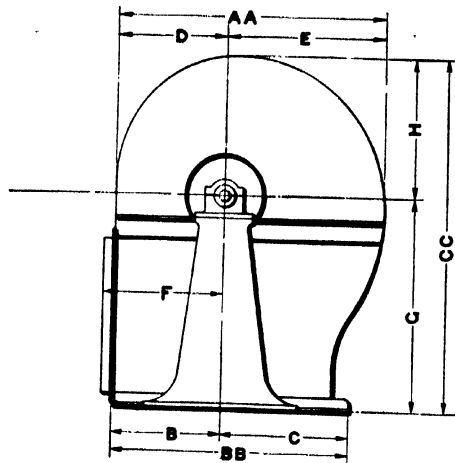
| FULL HOUSING   |                |                 |
|----------------|----------------|-----------------|
| Size           | Overhung Wheel | Overhung Pulley |
| 2              | 225            |                 |
| 3              | 320            |                 |
| 4              | 470            |                 |
| 5              | 640            |                 |
| 6              | 840            |                 |
| 6½             | 1040           |                 |
| 7              | 1240           |                 |
| 8              | 1800           | 1260            |
| 9              | 2440           | 1750            |
| 10             | 3000           | 2450            |
| 11             | 3675           | 3050            |
| 12             | 4350           | 3700            |
| 13             | 5100           | 4600            |
| 14             | 6050           | 5350            |
| 15             | 7350           | 6650            |
| 16             | 8850           | 7800            |
| 17             | 10400          | 9360            |
| ¾ HOUSING ONLY |                |                 |
| 18             |                | 8950            |
| 20             |                | 11800           |
| 22             |                | 15300           |
| 24             |                | 18630           |
| 26             |                | 23700           |

## Multivane Fan—Design 2

### Full Housing

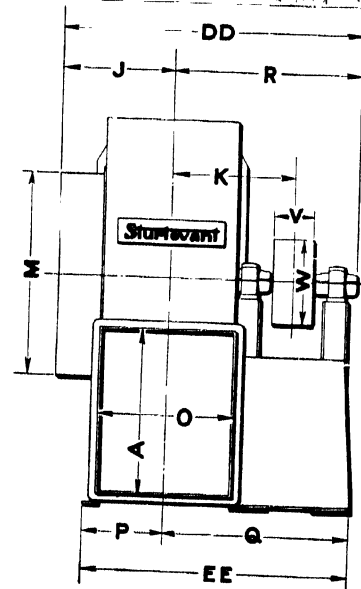
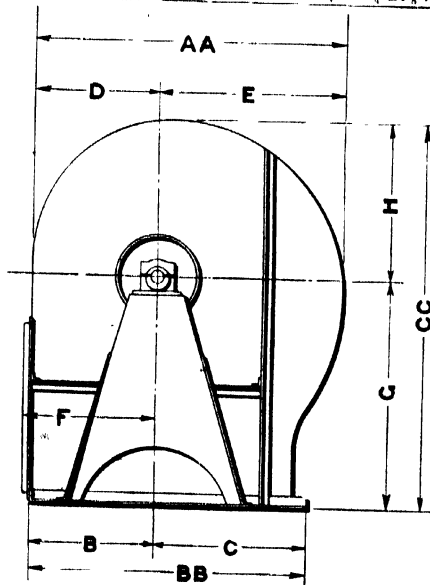
### Bottom Horizontal Discharge

### Overhung Wheel



### CAST IRON HANGER

| Line | A  | B  | C  | D  | E  | F  | G  | H  | J  | K  | M  | O  | P  | Q  | R  | V  | W  | AA | BB | CC  | DD | EE | Extreme Wheel Dia. | Shaft Dia. | Anchor Hanger | Bolts Fan |
|------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|----|----|--------------------|------------|---------------|-----------|
| 2    | 10 | 10 | 7  | 7  | 11 | 9  | 15 | 9  | 7  | 10 | 12 | 8  | 5  | 18 | 18 | 3  | 6  | 19 | 17 | 24  | 25 | 23 | 11                 | 1          | 1             | 1         |
| 3    | 12 | 9  | 11 | 11 | 10 | 10 | 18 | 11 | 8  | 12 | 13 | 10 | 7  | 21 | 21 | 4  | 7  | 23 | 21 | 30  | 31 | 28 | 11                 | 1          | 1             | 1         |
| 4    | 15 | 11 | 15 | 11 | 17 | 12 | 25 | 11 | 10 | 14 | 18 | 12 | 9  | 24 | 24 | 5  | 8  | 23 | 21 | 36  | 35 | 32 | 11                 | 1          | 1             | 1         |
| 5    | 17 | 13 | 17 | 13 | 19 | 16 | 30 | 19 | 13 | 16 | 21 | 16 | 8  | 26 | 27 | 5  | 10 | 33 | 30 | 41  | 39 | 35 | 17                 | 1          | 1             | 1         |
| 6    | 20 | 15 | 19 | 15 | 22 | 16 | 32 | 21 | 15 | 19 | 24 | 16 | 10 | 31 | 32 | 6  | 12 | 38 | 31 | 49  | 45 | 42 | 23                 | 1          | 1             | 1         |
| 7    | 22 | 17 | 21 | 17 | 25 | 19 | 30 | 21 | 17 | 20 | 27 | 18 | 11 | 34 | 34 | 6  | 13 | 42 | 38 | 54  | 51 | 49 | 26                 | 1          | 1             | 1         |
| 8    | 25 | 19 | 23 | 19 | 28 | 21 | 35 | 23 | 17 | 22 | 30 | 20 | 12 | 37 | 37 | 7  | 14 | 47 | 42 | 59  | 53 | 50 | 29                 | 1          | 1             | 1         |
| 9    | 30 | 23 | 27 | 23 | 33 | 25 | 41 | 28 | 20 | 26 | 36 | 21 | 14 | 42 | 42 | 9  | 16 | 56 | 50 | 70  | 62 | 56 | 35                 | 2          | 2             | 2         |
| 10   | 35 | 26 | 32 | 26 | 39 | 28 | 48 | 33 | 23 | 30 | 42 | 28 | 17 | 48 | 48 | 10 | 18 | 66 | 59 | 81  | 71 | 65 | 40                 | 2          | 2             | 2         |
| 11   | 40 | 30 | 36 | 30 | 45 | 32 | 55 | 37 | 27 | 33 | 48 | 32 | 19 | 52 | 52 | 10 | 20 | 75 | 67 | 92  | 79 | 72 | 46                 | 2          | 2             | 2         |
|      | 45 | 34 | 40 | 34 | 50 | 36 | 61 | 42 | 30 | 36 | 54 | 36 | 21 | 58 | 57 | 12 | 22 | 85 | 74 | 104 | 88 | 79 | 52                 | 2          | 2             | 2         |



### STEEL PLATE HANGER

| Fan Size |        | STEEL PLATE HANGER |        |        |        |         |        |        |        |        |        |        |        |        |        |        |         |         |         |         |         | Extreme Wheel Dia. | Shaft Dia. | Anchor Bolts Hanger | Bolts Fan |
|----------|--------|--------------------|--------|--------|--------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|--------------------|------------|---------------------|-----------|
|          |        | A                  | B      | C      | D      | E       | F      | G      | H      | J      | K      | M      | O      | P      | Q      | R      | V       | W       | AA      | BB      | CC      |                    |            |                     |           |
| 12       | 19 1/2 | 38 1/2             | 46 3/8 | 56 1/2 | 60 1/2 | 69 1/2  | 47 1/2 | 33 1/8 | 35 1/2 | 60 1/2 | 40 1/2 | 25 1/2 | 52 1/2 | 52 1/2 | 12     | 24     | 91 1/2  | 84 1/2  | 116 1/2 | 86 1/2  | 77 1/2  | 58 1/2             | 2 1/8      | 1                   | 7 1/8     |
| 13       | 51 1/2 | 42 1/2             | 51 1/2 | 61 1/2 | 67 1/2 | 73 1/2  | 51 1/2 | 37 1/8 | 38 1/2 | 66 1/2 | 44 1/2 | 27 1/2 | 58 1/2 | 58 1/2 | 13 1/2 | 28 1/2 | 103 1/2 | 93 1/2  | 127 1/2 | 95 1/2  | 85 1/2  | 64 1/2             | 3 1/8      | 1                   | 7 1/8     |
| 15       | 59 1/2 | 55 1/2             | 67 1/2 | 78 1/2 | 82 1/2 | 91 1/2  | 56 1/2 | 40 1/8 | 40 1/2 | 72 1/2 | 48 1/2 | 29 1/2 | 60 1/2 | 60 1/2 | 13 1/2 | 32 1/2 | 113 1/2 | 100 1/2 | 139 1/2 | 101 1/2 | 89 1/2  | 69 1/2             | 3 1/8      | 1                   | 7 1/8     |
| 15       | 64 1/2 | 60 1/2             | 73 1/2 | 84 1/2 | 88 1/2 | 97 1/2  | 61 1/2 | 43 1/8 | 44 1/2 | 78 1/2 | 52 1/2 | 32 1/2 | 66 1/2 | 67 1/2 | 14 1/2 | 36 1/2 | 122 1/2 | 109 1/2 | 150 1/2 | 111 1/2 | 98 1/2  | 75 1/2             | 3 1/8      | 1                   | 7 1/8     |
| 16       | 69 1/2 | 61 1/2             | 75 1/2 | 85 1/2 | 90 1/2 | 99 1/2  | 66 1/2 | 47 1/8 | 47 1/2 | 85 1/2 | 56 1/2 | 34 1/2 | 71 1/2 | 72 1/2 | 14 1/2 | 42 1/2 | 129 1/2 | 117 1/2 | 161 1/2 | 119 1/2 | 105 1/2 | 81 1/2             | 4 1/2      | 1 1/2               | 1 1/2     |
| 17       | 74 1/2 | 68 1/2             | 81 1/2 | 91 1/2 | 96 1/2 | 105 1/2 | 70 1/2 | 50 1/8 | 51 1/2 | 91 1/2 | 60 1/2 | 36 1/2 | 76 1/2 | 77 1/2 | 14 1/2 | 48 1/2 | 141 1/2 | 125 1/2 | 172 1/2 | 128 1/2 | 112 1/2 | 87 1/2             | 5 1/2      | 1 1/2               | 1 1/2     |

Single Inlet

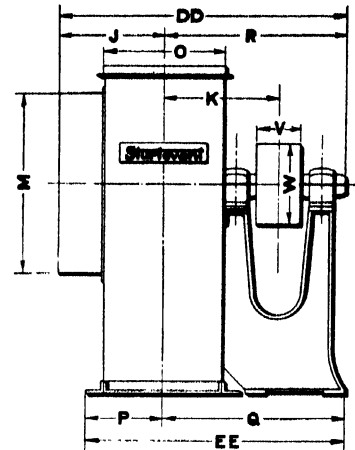
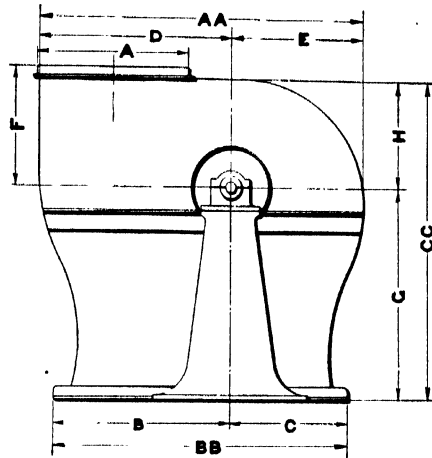
## Multivane Fan—Design 2

Single V

Full Housing

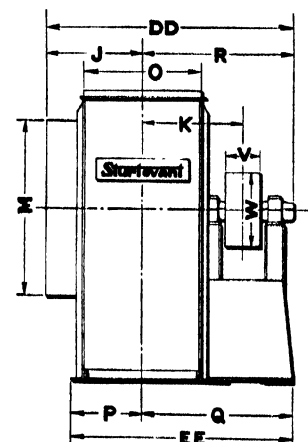
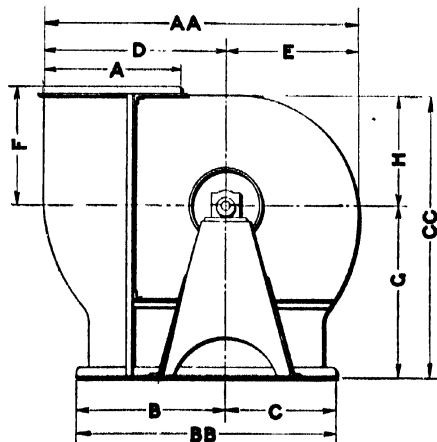
Up Blast Discharge

Overhung Wheel



CAST IRON HANGER

| Fan Size | A      | B      | C      | D       | E      | F      | G      | H      | J      | K      | M      | O      | P      | Q      | R      | V      | W  | AA      | BB     | CC     | DD     | EE     | Extreme Wheel Dia. | Shaft Dia. | Anchor Hanger |
|----------|--------|--------|--------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----|---------|--------|--------|--------|--------|--------------------|------------|---------------|
| 12       | 10     | 11     | 8 1/2  | 13 1/16 | 9 3/16 | 9      | 15     | 7 1/4  | 7      | 10 1/2 | 12 1/2 | 8 1/2  | 5 1/2  | 18 1/2 | 18 3/4 | 3 1/2  | 6  | 22 3/4  | 19 1/2 | 22 1/2 | 25 1/2 | 23 1/2 | 11 1/2             | 1 1/4      | 1             |
| 13       | 12     | 14     | 11     | 16 1/2  | 11 1/2 | 10 1/2 | 18 1/2 | 9 3/4  | 8 1/2  | 13 1/2 | 15 1/2 | 10 1/2 | 7 1/2  | 21 1/2 | 22 1/2 | 4      | 7  | 28 1/2  | 25     | 28 1/2 | 31     | 28     | 11 1/2             | 1 1/4      | 1             |
| 15       | 17     | 17     | 13     | 19 1/2  | 14 1/2 | 12 1/2 | 22     | 11 1/2 | 10 1/2 | 18 1/2 | 18 1/2 | 12 1/2 | 8 1/2  | 24 1/2 | 24 1/2 | 5      | 8  | 34 1/2  | 30     | 33 1/2 | 35 1/2 | 32 1/2 | 17 1/2             | 1 1/4      | 1             |
| 17       | 19 1/2 | 19 1/2 | 14 1/2 | 23      | 16 1/2 | 14 1/2 | 25     | 13 1/2 | 12 1/2 | 16 1/2 | 21 1/2 | 11 1/2 | 9 1/2  | 26 1/2 | 27     | 5      | 10 | 39 1/2  | 34     | 38 1/2 | 39 1/2 | 35 1/2 | 20 1/2             | 1 1/2      | 1             |
| 20       | 21 1/2 | 21 1/2 | 16 1/2 | 26 1/2  | 19 1/2 | 16 1/2 | 30     | 15 1/2 | 13 1/2 | 19 1/2 | 21 1/2 | 16 1/2 | 10 1/2 | 32 1/2 | 32 1/2 | 6      | 12 | 45 1/2  | 38     | 45 1/2 | 45 1/2 | 42 1/2 | 23 1/2             | 1 1/2      | 1             |
| 22       | 22 1/2 | 21     | 18     | 29 1/2  | 21 1/2 | 19 1/2 | 32 1/2 | 17 1/2 | 15 1/2 | 20 1/2 | 27 1/2 | 18 1/2 | 11 1/2 | 34 1/2 | 33 1/2 | 6 1/2  | 13 | 51      | 42     | 50 1/2 | 49 1/2 | 45 1/2 | 26 1/2             | 1 1/2      | 1             |
| 25       | 26 1/2 | 19 1/2 | 19 1/2 | 32 1/2  | 23 1/2 | 21 1/2 | 35 1/2 | 19 1/2 | 17 1/2 | 22 1/2 | 30 1/2 | 20 1/2 | 12 1/2 | 37 1/2 | 36 1/2 | 7 1/2  | 14 | 56 1/2  | 46     | 54 1/2 | 53 1/2 | 49 1/2 | 29 1/2             | 1 1/2      | 1             |
| 30       | 31 1/2 | 23 1/2 | 23 1/2 | 39 1/2  | 28 1/2 | 25 1/2 | 41 1/2 | 23 1/2 | 20 1/2 | 26 1/2 | 36 1/2 | 24 1/2 | 14 1/2 | 42 1/2 | 42 1/2 | 9      | 16 | 67 1/2  | 55     | 64 1/2 | 62 1/2 | 56 1/2 | 35                 | 2 1/2      | 1             |
| 35       | 37 1/2 | 27 1/2 | 27 1/2 | 45 1/2  | 33 1/2 | 28 1/2 | 48 1/2 | 26 1/2 | 23 1/2 | 30 1/2 | 42 1/2 | 28 1/2 | 17 1/2 | 48 1/2 | 47 1/2 | 10 1/2 | 18 | 79      | 65     | 75 1/2 | 71 1/2 | 65 1/2 | 40 1/2             | 2 1/2      | 1             |
| 40       | 42 1/2 | 31 1/2 | 31 1/2 | 52 1/2  | 37 1/2 | 32 1/2 | 55 1/2 | 30 1/2 | 27 1/2 | 33 1/2 | 48 1/2 | 32 1/2 | 19 1/2 | 52 1/2 | 52 1/2 | 10 1/2 | 20 | 90      | 74     | 85 1/2 | 79 1/2 | 72 1/2 | 46 1/2             | 2 1/2      | 1             |
| 45       | 46 1/2 | 34 1/2 | 34 1/2 | 58 1/2  | 42 1/2 | 36 1/2 | 61 1/2 | 31 1/2 | 30 1/2 | 36 1/2 | 54 1/2 | 36 1/2 | 21 1/2 | 58 1/2 | 57 1/2 | 12     | 22 | 101 1/2 | 81     | 95 1/2 | 88 1/2 | 79 1/2 | 52 1/2             | 2 1/2      | 1             |



STEEL PLATE HANGER

| Fan Size | A      | B  | C  | D      | E      | F      | G      | H      | J      | K      | M      | O      | P      | Q      | R      | V      | W  | AA      | BB  | CC      | DD      | EE      | Extreme Wheel Dia. | Shaft Dia. | Anchor Hanger |
|----------|--------|----|----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----|---------|-----|---------|---------|---------|--------------------|------------|---------------|
| 12       | 49 1/2 | 53 | 40 | 65 1/2 | 47 1/2 | 40 1/2 | 60 1/2 | 38 1/2 | 33 1/2 | 35 1/2 | 60 1/2 | 40 1/2 | 25 1/2 | 52 1/2 | 52 1/2 | 12     | 24 | 112 1/2 | 93  | 98 1/2  | 86 1/2  | 77 1/2  | 58 1/2             | 2 1/2      | 1             |
| 13       | 54 1/2 | 58 | 43 | 71 1/2 | 51 1/2 | 44 1/2 | 65 1/2 | 42 1/2 | 37 1/2 | 38 1/2 | 66 1/2 | 44 1/2 | 27 1/2 | 58 1/2 | 58 1/2 | 13 1/2 | 28 | 123 1/2 | 101 | 107 1/2 | 95 1/2  | 85 1/2  | 64                 | 3 1/2      | 1             |
| 14       | 59 1/2 | 63 | 47 | 78 1/2 | 56 1/2 | 48 1/2 | 71 1/2 | 45 1/2 | 40 1/2 | 40 1/2 | 72 1/2 | 48 1/2 | 29 1/2 | 60 1/2 | 60 1/2 | 14 1/2 | 32 | 135     | 110 | 117 1/2 | 101 1/2 | 89 1/2  | 69 1/2             | 3 1/2      | 1             |
| 15       | 64 1/2 | 69 | 51 | 84 1/2 | 61 1/2 | 52 1/2 | 77 1/2 | 49 1/2 | 43 1/2 | 41 1/2 | 78 1/2 | 52 1/2 | 31 1/2 | 66 1/2 | 67     | 15 1/2 | 36 | 146     | 120 | 126 1/2 | 110 1/2 | 98 1/2  | 75 1/2             | 3 1/2      | 1             |
| 16       | 69 1/2 | 73 | 55 | 91 1/2 | 66 1/2 | 55 1/2 | 82 1/2 | 53 1/2 | 47 1/2 | 47 1/2 | 85 1/2 | 56 1/2 | 34 1/2 | 71 1/2 | 72     | 16 1/2 | 42 | 157 1/2 | 128 | 136 1/2 | 119 1/2 | 105 1/2 | 81 1/2             | 4 1/2      | 1             |
| 17       | 74 1/2 | 78 | 58 | 97 1/2 | 70 1/2 | 60 1/2 | 88 1/2 | 57 1/2 | 50 1/2 | 51 1/2 | 91 1/2 | 60 1/2 | 36 1/2 | 76 1/2 | 77 1/2 | 17 1/2 | 48 | 168 1/2 | 136 | 145 1/2 | 128 1/2 | 112 1/2 | 87 1/2             | 5 1/2      | 1             |

Single Inlet

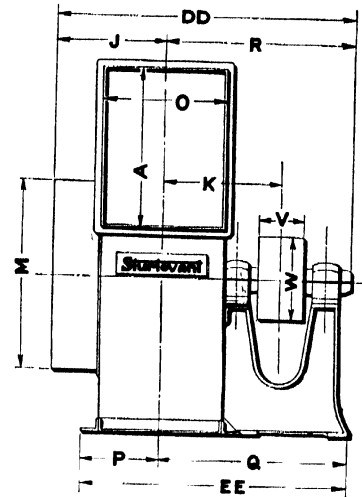
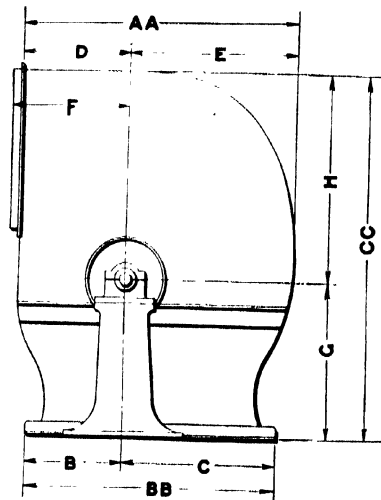
## Multivane Fan—Design 2

Single Width

Full Housing

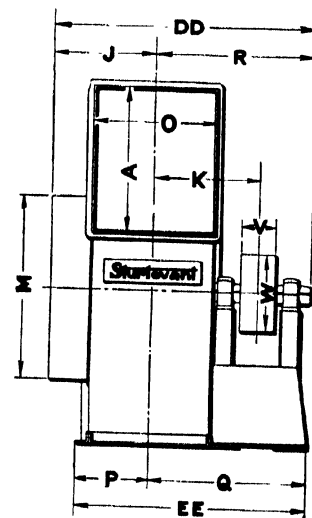
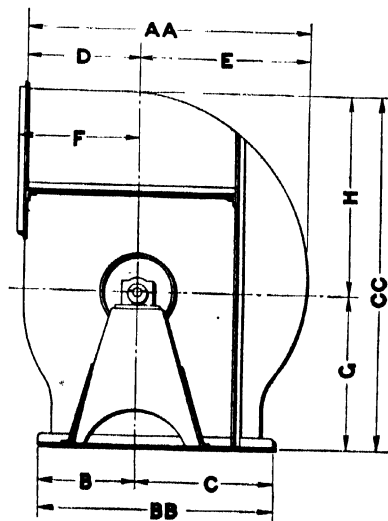
Top Horizontal Discharge

Overhung Wheel



CAST IRON HANGER

| Fan Size | A      | B  | C  | D      | E      | F      | G      | H       | J      | K      | M      | O      | P      | Q      | R      | V      | W  | AA     | BB     | CC      | DD     | EE     | Extreme Wheel Dia. | Shaft Dia. | Anchor Bolts |
|----------|--------|----|----|--------|--------|--------|--------|---------|--------|--------|--------|--------|--------|--------|--------|--------|----|--------|--------|---------|--------|--------|--------------------|------------|--------------|
| 2        | 10 1/4 | 7  | 10 | 7 1/4  | 11 1/4 | 9      | 11     | 13 3/16 | 7      | 10 3/8 | 12 3/8 | 8 3/8  | 5 3/8  | 18 1/4 | 18 1/4 | 3 1/2  | 6  | 19 1/4 | 17     | 24 1/4  | 25 1/4 | 23 1/4 | 11 1/4             | 1 1/4      | 1 1/4        |
| 3        | 12 1/4 | 9  | 12 | 9 1/4  | 11 1/4 | 10 1/4 | 14     | 16 1/4  | 8 3/8  | 13 1/8 | 15 1/8 | 10 3/8 | 7 1/8  | 21 1/8 | 22 1/8 | 1      | 7  | 23 1/8 | 21     | 30 1/8  | 31 1/8 | 28 1/8 | 14 1/8             | 1 1/4      | 1 1/4        |
| 4        | 15 1/4 | 11 | 15 | 11 1/4 | 17 1/4 | 12 1/4 | 16 1/4 | 18 1/4  | 10 3/8 | 14 1/8 | 18 1/8 | 12 3/8 | 8 1/8  | 24 1/8 | 25 1/8 | 5      | 8  | 28 1/8 | 26     | 36 1/8  | 35 1/8 | 32 1/8 | 17 1/8             | 1 1/4      | 1 1/4        |
| 5        | 17 1/4 | 13 | 17 | 13 1/4 | 19 1/4 | 14 1/4 | 18 1/4 | 20 1/4  | 12 3/8 | 16 1/8 | 21 1/8 | 14 3/8 | 9 1/8  | 26 1/8 | 27 1/8 | 5      | 10 | 33 1/8 | 30     | 41 1/8  | 39 1/8 | 35 1/8 | 20 3/8             | 1 1/4      | 1 1/4        |
| 6        | 20 1/4 | 15 | 20 | 15 1/4 | 22 1/4 | 16 1/4 | 20 1/4 | 23 1/4  | 13 3/8 | 19 1/8 | 24 1/8 | 16 3/8 | 10 3/8 | 32 1/8 | 33 1/8 | 6      | 12 | 38 1/8 | 33     | 47 1/8  | 45 1/8 | 42 1/8 | 23 3/8             | 1 1/4      | 1 1/4        |
| 6 1/2    | 22 1/4 | 17 | 22 | 17 1/4 | 24 1/4 | 18 1/4 | 22 1/4 | 25 1/4  | 15 3/8 | 21 1/8 | 27 1/8 | 18 3/8 | 11 3/8 | 34 1/8 | 35 1/8 | 6 1/2  | 13 | 42 1/8 | 36 1/2 | 53 1/2  | 49 1/2 | 45 1/2 | 26 3/8             | 1 1/4      | 1 1/4        |
| 7        | 25 1/4 | 19 | 25 | 19 1/4 | 27 1/4 | 20 1/4 | 25 1/4 | 28 1/4  | 17 3/8 | 23 1/8 | 30 1/8 | 20 3/8 | 12 3/8 | 37 1/8 | 38 1/8 | 7 1/2  | 14 | 47 1/8 | 40     | 58 1/8  | 53 1/8 | 49 1/8 | 29 3/8             | 1 1/4      | 1 1/4        |
| 8        | 30 1/4 | 23 | 30 | 23 1/4 | 33 1/4 | 25 1/4 | 30 1/4 | 33 1/4  | 20 3/8 | 26 3/8 | 33 1/8 | 21 3/8 | 14 3/8 | 42 1/8 | 43 1/8 | 9      | 16 | 56 1/8 | 47     | 69 1/8  | 62 1/8 | 56 1/8 | 35 3/8             | 2 3/8      | 2 3/8        |
| 9        | 35 1/4 | 27 | 35 | 27 1/4 | 39 1/4 | 28 1/4 | 35 1/4 | 38 1/4  | 23 3/8 | 30 3/8 | 37 1/8 | 24 3/8 | 17 3/8 | 48 1/8 | 49 1/8 | 10 1/2 | 18 | 66 1/8 | 56     | 81 1/8  | 71 1/8 | 65 1/8 | 40 3/8             | 2 3/8      | 2 3/8        |
| 10       | 40 1/4 | 31 | 40 | 31 1/4 | 45 1/4 | 32 1/4 | 40 1/4 | 43 1/4  | 27 3/8 | 34 3/8 | 41 1/8 | 27 3/8 | 19 3/8 | 52 1/8 | 53 1/8 | 10 1/2 | 20 | 75 1/8 | 62     | 93 1/8  | 79 1/8 | 72 1/8 | 46 3/8             | 2 3/8      | 2 3/8        |
| 11       | 45 1/4 | 35 | 45 | 35 1/4 | 50 1/4 | 36 1/4 | 45 1/4 | 48 1/4  | 30 3/8 | 37 3/8 | 44 1/8 | 30 3/8 | 21 3/8 | 58 1/8 | 59 1/8 | 12     | 22 | 85 1/8 | 69     | 104 1/8 | 88 1/8 | 79 1/8 | 52 3/8             | 2 3/8      | 2 3/8        |



STEEL PLATE HANGER

| Fan Size | A      | B  | C  | D      | E      | F      | G      | H      | J      | K      | M      | O      | P      | Q      | R      | V      | W  | AA      | BB  | CC      | DD      | EE      | Extreme Wheel Dia. | Shaft Dia. | Anchor Bolts |
|----------|--------|----|----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----|---------|-----|---------|---------|---------|--------------------|------------|--------------|
| 12       | 49 1/4 | 33 | 46 | 38 1/4 | 56 1/4 | 40 1/4 | 51 1/4 | 55 1/4 | 33 1/4 | 35 1/4 | 60 1/4 | 40 1/4 | 25 1/4 | 52 1/4 | 52 1/4 | 12     | 24 | 94 1/4  | 79  | 116 1/4 | 86 1/4  | 77 1/4  | 58 1/4             | 2 1/2      | 2 1/2        |
| 13       | 54 1/4 | 36 | 51 | 41 1/4 | 61 1/4 | 44 1/4 | 55 1/4 | 59 1/4 | 37 1/4 | 38 1/4 | 66 1/4 | 44 1/4 | 27 1/4 | 58 1/4 | 58 1/4 | 13 1/4 | 28 | 103 1/4 | 87  | 127 1/4 | 95 1/4  | 85 1/4  | 64 1/4             | 2 1/2      | 2 1/2        |
| 14       | 59 1/4 | 39 | 55 | 45 1/4 | 67 1/4 | 48 1/4 | 60 1/4 | 64 1/4 | 40 1/4 | 41 1/4 | 72 1/4 | 48 1/4 | 29 1/4 | 60 1/4 | 60 1/4 | 14 1/4 | 32 | 113 1/4 | 94  | 139 1/4 | 101 1/4 | 89 1/4  | 69 1/4             | 2 1/2      | 2 1/2        |
| 15       | 64 1/4 | 43 | 60 | 49 1/4 | 73 1/4 | 52 1/4 | 65 1/4 | 69 1/4 | 43 1/4 | 44 1/4 | 78 1/4 | 52 1/4 | 32 1/4 | 66 1/4 | 67 1/4 | 15 1/4 | 36 | 122 1/4 | 103 | 150 1/4 | 110 1/4 | 98 1/4  | 75 1/4             | 2 1/2      | 2 1/2        |
| 16       | 69 1/4 | 45 | 64 | 53 1/4 | 78 1/4 | 55 1/4 | 70 1/4 | 74 1/4 | 47 1/4 | 48 1/4 | 85 1/4 | 56 1/4 | 34 1/4 | 71 1/4 | 72 1/4 | 16 1/4 | 42 | 132 1/4 | 109 | 161 1/4 | 119 1/4 | 105 1/4 | 81 1/4             | 2 1/2      | 2 1/2        |
| 17       | 74 1/4 | 48 | 68 | 57 1/4 | 84 1/4 | 60 1/4 | 74 1/4 | 78 1/4 | 50 1/4 | 51 1/4 | 91 1/4 | 60 1/4 | 36 1/4 | 76 1/4 | 77 1/4 | 17 1/4 | 48 | 141 1/4 | 116 | 172 1/4 | 128 1/4 | 112 1/4 | 87 1/4             | 2 1/2      | 2 1/2        |

Single Inlet

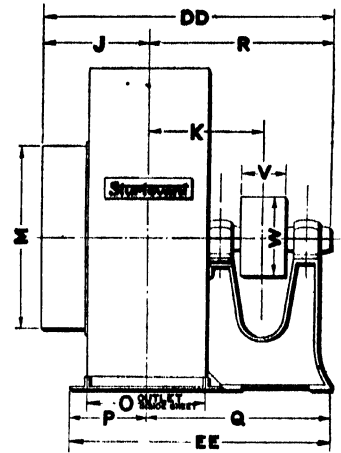
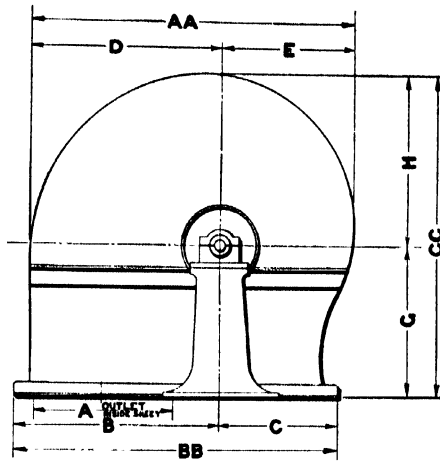
## Multivane Fan—Design 2

Single Width

Full Housing

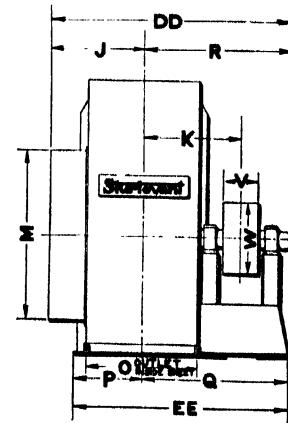
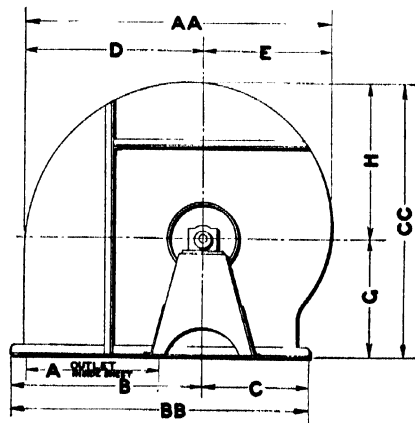
Down Blast Discharge

Overhung Wheel



CAST IRON HANGER

| Fan Size | A      | B      | C      | D      | E      | G      | H      | J      | K      | M      | O  | P      | Q      | R      | V      | W  | AA      | BB     | CC     | DD     | EE     | Extreme Wheel Dia. | Shaft Dia. | Anchor Bolts Hanger | Fan |
|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----|--------|--------|--------|--------|----|---------|--------|--------|--------|--------|--------------------|------------|---------------------|-----|
| 12       | 9 1/2  | 11 1/8 | 8 1/2  | 13 3/8 | 9 1/8  | 11 1/2 | 11 1/2 | 7      | 10 1/2 | 12 1/2 | 8  | 5 1/2  | 18 1/2 | 18 3/4 | 3 1/2  | 6  | 22 1/2  | 23 3/8 | 22 1/2 | 25 1/2 | 23 3/4 | 11 1/2             | 1 1/2      | 1                   | 1   |
| 3        | 12 1/2 | 18 1/8 | 11 1/2 | 16 1/8 | 11 1/8 | 14 1/2 | 14 1/2 | 8 1/2  | 13 1/2 | 15 1/2 | 10 | 7 1/2  | 21 1/2 | 22 1/4 | 4      | 7  | 28 1/2  | 29 1/8 | 28 1/2 | 31     | 28 1/4 | 14 1/2             | 1 1/2      | 1                   | 1   |
| 4        | 14 1/2 | 21 1/8 | 13 1/2 | 19 1/8 | 14 1/8 | 16 1/2 | 17 1/2 | 10 1/2 | 14 1/2 | 18 1/2 | 12 | 8 1/2  | 24 1/2 | 24 1/4 | 5      | 8  | 34 1/2  | 34 1/8 | 33 1/2 | 35 1/2 | 32 1/4 | 17 1/2             | 1 1/2      | 1                   | 1   |
| 5        | 17 1/2 | 25 1/8 | 16 1/2 | 23 1/8 | 16 1/8 | 18 1/2 | 19 1/2 | 12 1/2 | 16 1/2 | 21 1/2 | 11 | 9 1/2  | 26 1/2 | 27     | 5      | 10 | 39 1/2  | 40     | 38 1/2 | 39 1/2 | 35 1/4 | 20 1/2             | 1 1/2      | 1                   | 1   |
| 6        | 19 1/2 | 28 1/8 | 18 1/2 | 26 1/8 | 19 1/8 | 20 1/2 | 22 1/2 | 13 1/2 | 19 1/2 | 24 1/2 | 16 | 10 1/2 | 32 1/2 | 32 1/4 | 6      | 12 | 45 1/2  | 45 1/8 | 43 1/2 | 45 1/2 | 42 3/4 | 23 1/2             | 1 1/2      | 1                   | 1   |
| 6 1/2    | 22 1/2 | 32 1/8 | 21 1/2 | 29 1/8 | 21 1/8 | 23 1/2 | 25 1/2 | 15 1/2 | 20 1/2 | 27 1/2 | 18 | 11 1/2 | 34 1/2 | 33 1/4 | 6 1/2  | 13 | 51 1/2  | 50 1/8 | 49     | 49 1/2 | 45 3/4 | 26 1/2             | 1 1/2      | 1                   | 1   |
| 7        | 24 1/2 | 35 1/8 | 23 1/2 | 32 1/8 | 23 1/8 | 25 1/2 | 28 1/2 | 17 1/2 | 22 1/2 | 30 1/2 | 20 | 12 1/2 | 37 1/2 | 36 1/4 | 7 1/2  | 14 | 56 1/2  | 54 1/8 | 53 1/2 | 53 1/2 | 49 1/4 | 29 1/2             | 1 1/2      | 1                   | 1   |
| 8        | 29 1/2 | 41 1/8 | 27 1/2 | 39 1/8 | 28 1/8 | 30 1/2 | 33 1/2 | 20 1/2 | 26 1/2 | 36 1/2 | 24 | 14 1/2 | 42 1/2 | 42 1/4 | 9      | 16 | 67 1/2  | 65 1/8 | 64 1/2 | 64 1/2 | 56 1/4 | 35                 | 2 1/2      | 1                   | 1   |
| 9        | 34 1/2 | 49 1/8 | 31 1/2 | 47 1/8 | 33 1/8 | 35 1/2 | 39 1/2 | 23 1/2 | 30 1/2 | 42 1/2 | 28 | 17 1/2 | 48 1/2 | 47 1/4 | 10 1/2 | 18 | 79 1/2  | 76 1/8 | 75     | 71 1/2 | 65 3/4 | 40 1/2             | 2 1/2      | 1                   | 1   |
| 10       | 39 1/2 | 55 1/8 | 36 1/2 | 53 1/8 | 37 1/8 | 40 1/2 | 45 1/2 | 27 1/2 | 33 1/2 | 48 1/2 | 32 | 19 1/2 | 52 1/2 | 52 1/4 | 11 1/2 | 20 | 90 1/2  | 87 1/8 | 85 1/2 | 79 1/2 | 72 1/4 | 46 1/2             | 2 1/2      | 1                   | 1   |
| 11       | 44 1/2 | 62 1/8 | 41 1/2 | 59 1/8 | 42 1/8 | 45 1/2 | 50 1/2 | 30 1/2 | 36 1/2 | 54 1/2 | 36 | 21 1/2 | 58 1/2 | 57 1/4 | 12     | 22 | 101 1/2 | 96 1/8 | 96 1/2 | 88 1/2 | 79 1/4 | 52 1/2             | 2 1/2      | 1                   | 1   |



STEEL PLATE HANGER

| Fan Size | A      | B       | C      | D      | E      | G      | H      | J      | K      | M      | O  | P      | Q      | R      | V      | W  | AA      | BB      | CC      | DD      | EE      | Extreme Wheel Dia. | Shaft Dia. | Anchor Bolts Hanger | Fan |
|----------|--------|---------|--------|--------|--------|--------|--------|--------|--------|--------|----|--------|--------|--------|--------|----|---------|---------|---------|---------|---------|--------------------|------------|---------------------|-----|
| 12       | 49 1/2 | 70 1/8  | 40 1/2 | 65 1/8 | 47 1/8 | 42 1/2 | 56 1/2 | 33 1/2 | 35 1/2 | 60 1/2 | 40 | 25 1/2 | 52 1/2 | 52 1/4 | 12     | 24 | 112 1/2 | 110 1/8 | 98 1/2  | 86 1/2  | 77 1/2  | 58 1/4             | 2 1/2      | 1                   | 1   |
| 13       | 54 1/2 | 76 1/8  | 43 1/2 | 71 1/8 | 51 1/8 | 46 1/2 | 61 1/2 | 37 1/2 | 38 1/2 | 66 1/2 | 44 | 27 1/2 | 58 1/2 | 58 1/4 | 13 1/2 | 28 | 123 1/2 | 119 1/8 | 107 1/2 | 95 1/2  | 85 1/2  | 64                 | 3 1/2      | 1                   | 1   |
| 14       | 58 1/2 | 83 1/8  | 47 1/2 | 78 1/8 | 56 1/8 | 49 1/2 | 67 1/2 | 40 1/2 | 40 1/2 | 72 1/2 | 48 | 29 1/2 | 60 1/2 | 60 1/4 | 14 1/2 | 32 | 135     | 130 1/8 | 117 1/2 | 101 1/2 | 89 1/2  | 69 1/4             | 3 1/2      | 1                   | 1   |
| 15       | 63 1/2 | 90 1/8  | 51 1/2 | 84 1/8 | 61 1/8 | 53 1/2 | 73 1/2 | 43 1/2 | 44 1/2 | 78 1/2 | 52 | 32 1/2 | 66 1/2 | 67 1/4 | 15 1/2 | 36 | 146 1/2 | 141 1/8 | 126 1/2 | 110 1/2 | 98 1/2  | 75 1/4             | 3 1/2      | 1                   | 1   |
| 16       | 68 1/2 | 97 1/8  | 55 1/2 | 91 1/8 | 66 1/8 | 57 1/2 | 78 1/2 | 47 1/2 | 47 1/2 | 85 1/2 | 56 | 34 1/2 | 71 1/2 | 72 1/4 | 16 1/2 | 42 | 157 1/2 | 152 1/8 | 136 1/2 | 119 1/2 | 105 1/2 | 81 1/4             | 4 1/2      | 1                   | 1   |
| 17       | 73 1/2 | 103 1/8 | 58 1/2 | 97 1/8 | 70 1/8 | 61 1/2 | 84 1/2 | 50 1/2 | 51 1/2 | 91 1/2 | 60 | 36 1/2 | 76 1/2 | 77 1/4 | 17 1/2 | 48 | 168 1/2 | 161 1/8 | 145 1/2 | 128 1/2 | 112 1/2 | 87 1/4             | 5 1/2      | 1                   | 1   |



Single Inlet

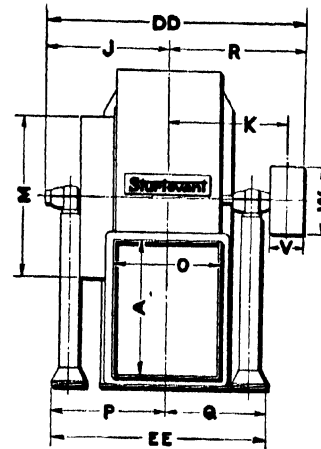
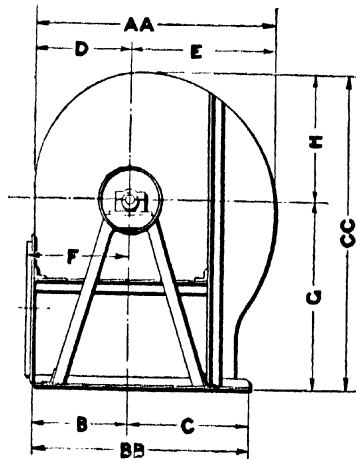
## Multivane Fan—Design 2

Single Width

Full Housing

Bottom Horizontal Discharge

Overhung Pulley



| Fan Size | A  | B  | C  | D  | E  | F   | G  | H  | J  | K  | M  | O  | P  | Q  | R  | V  | W   | AA  | BB  | CC  | DD  | EE | Extreme Wheel Diameter | Shaft Dia. | Anchor Bolts |          |
|----------|----|----|----|----|----|-----|----|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|----|------------------------|------------|--------------|----------|
|          |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |     |     |     |     |     |    |                        |            |              | Podestal |
| 8.30     | 23 | 27 | 23 | 33 | 25 | 41  | 28 | 30 | 30 | 36 | 21 | 29 | 27 | 34 | 9  | 16 | 56  | 50  | 70  | 65  | 57  | 35 | 2 3/8                  | 3          | 4            |          |
| 9.35     | 26 | 32 | 26 | 39 | 28 | 48  | 33 | 34 | 35 | 42 | 24 | 31 | 32 | 40 | 10 | 18 | 66  | 59  | 81  | 75  | 67  | 40 | 2 7/8                  | 3          | 4            |          |
| 10.10    | 30 | 36 | 30 | 45 | 32 | 55  | 37 | 38 | 38 | 48 | 32 | 38 | 35 | 43 | 10 | 20 | 75  | 67  | 92  | 82  | 73  | 46 | 2 1/4                  | 1          | 2            |          |
| 11.15    | 34 | 40 | 34 | 50 | 36 | 61  | 42 | 42 | 41 | 54 | 36 | 41 | 38 | 47 | 12 | 22 | 85  | 74  | 101 | 90  | 80  | 52 | 2 1/8                  | 1          | 2            |          |
| 12.19    | 38 | 46 | 38 | 56 | 40 | 69  | 47 | 46 | 45 | 60 | 40 | 45 | 43 | 51 | 12 | 24 | 94  | 84  | 116 | 97  | 89  | 58 | 2 1/8                  | 1          | 2            |          |
| 13.51    | 42 | 51 | 42 | 61 | 44 | 75  | 51 | 51 | 49 | 66 | 44 | 50 | 46 | 56 | 13 | 28 | 103 | 93  | 127 | 107 | 96  | 64 | 3 1/8                  | 1          | 2            |          |
| 14.59    | 45 | 55 | 45 | 67 | 48 | 82  | 56 | 54 | 51 | 72 | 48 | 54 | 49 | 58 | 13 | 32 | 113 | 100 | 139 | 113 | 103 | 69 | 3 1/8                  | 1          | 2            |          |
| 15.61    | 49 | 60 | 49 | 73 | 52 | 88  | 61 | 59 | 56 | 78 | 52 | 58 | 53 | 64 | 14 | 36 | 122 | 109 | 150 | 123 | 111 | 75 | 3 1/8                  | 1          | 2            |          |
| 16.69    | 53 | 64 | 53 | 78 | 55 | 95  | 66 | 61 | 60 | 85 | 56 | 62 | 56 | 67 | 11 | 42 | 132 | 117 | 161 | 132 | 118 | 81 | 4 1/2                  | 1          | 2            |          |
| 17.71    | 57 | 68 | 57 | 84 | 60 | 101 | 70 | 69 | 64 | 91 | 60 | 66 | 59 | 71 | 14 | 48 | 141 | 125 | 172 | 140 | 126 | 87 | 5                      | 1 1/2      | 1            |          |

Single Inlet

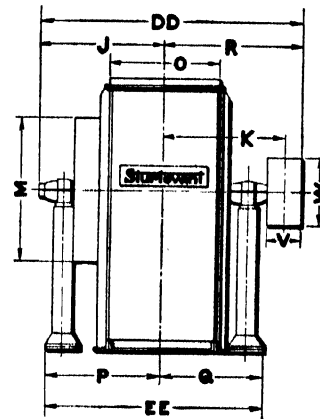
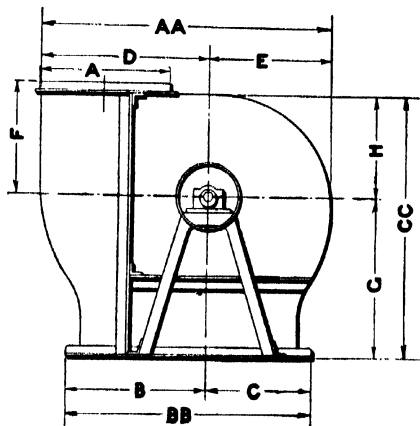
**Multivane Fan—Design 2**

Single Width

Full Housing

Up Blast Discharge

Overhung Pulley



| Fan Size | A  | B  | C  | D  | E  | F  | G  | H  | J  | K  | M  | O  | P  | Q  | R  | V  | W  | AA  | BB  | CC  | DD  | EE  | Extreme Wheel Diameter | Shaft Dia. | Anchor Bolts Pedestal | Anchor Bolts Fan |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|------------------------|------------|-----------------------|------------------|
| 8        | 30 | 31 | 23 | 39 | 28 | 25 | 41 | 23 | 30 | 30 | 36 | 24 | 29 | 27 | 34 | 9  | 16 | 67  | 55  | 64  | 65  | 57  | 35                     | 2 3/16     | 2                     | 2                |
| 9        | 35 | 37 | 27 | 45 | 33 | 28 | 48 | 26 | 34 | 35 | 42 | 28 | 34 | 32 | 40 | 10 | 18 | 79  | 65  | 75  | 75  | 67  | 40                     | 2 1/8      | 2                     | 2                |
| 10       | 40 | 42 | 31 | 52 | 37 | 32 | 55 | 30 | 38 | 38 | 48 | 32 | 38 | 35 | 43 | 10 | 20 | 90  | 74  | 85  | 82  | 73  | 46                     | 2 1/4      | 1                     | 1                |
| 11       | 45 | 46 | 34 | 58 | 42 | 36 | 61 | 34 | 42 | 41 | 54 | 36 | 41 | 38 | 47 | 12 | 22 | 101 | 81  | 95  | 90  | 80  | 52                     | 2 1/2      | 1                     | 1                |
| 12       | 49 | 53 | 40 | 65 | 47 | 40 | 60 | 38 | 46 | 45 | 60 | 40 | 45 | 43 | 51 | 12 | 24 | 112 | 93  | 98  | 97  | 89  | 58                     | 2 1/2      | 1                     | 1                |
| 13       | 54 | 58 | 43 | 71 | 51 | 44 | 65 | 42 | 51 | 49 | 66 | 44 | 50 | 46 | 56 | 13 | 28 | 123 | 101 | 107 | 107 | 96  | 64                     | 3 1/16     | 1                     | 1                |
| 14       | 59 | 63 | 47 | 78 | 56 | 48 | 71 | 45 | 54 | 51 | 72 | 48 | 54 | 49 | 58 | 14 | 32 | 135 | 110 | 117 | 113 | 103 | 69                     | 3 1/8      | 1                     | 1                |
| 15       | 64 | 69 | 51 | 84 | 61 | 52 | 77 | 49 | 59 | 56 | 78 | 52 | 58 | 53 | 64 | 14 | 36 | 146 | 120 | 126 | 123 | 111 | 75                     | 3 1/8      | 1                     | 1                |
| 16       | 69 | 73 | 55 | 91 | 66 | 55 | 82 | 53 | 64 | 60 | 85 | 56 | 62 | 56 | 67 | 14 | 42 | 157 | 128 | 136 | 132 | 118 | 81                     | 4          | 1 1/2                 | 1                |
| 17       | 74 | 78 | 58 | 97 | 70 | 60 | 88 | 57 | 69 | 64 | 91 | 60 | 66 | 59 | 71 | 14 | 48 | 168 | 136 | 145 | 140 | 126 | 87                     | 5          | 1 1/2                 | 1                |

Single Inlet

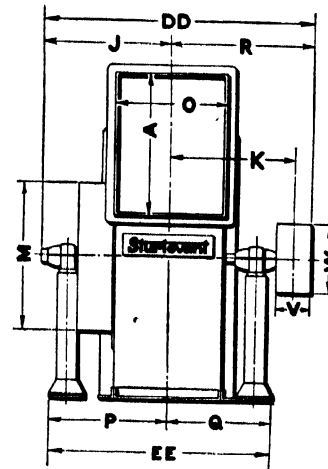
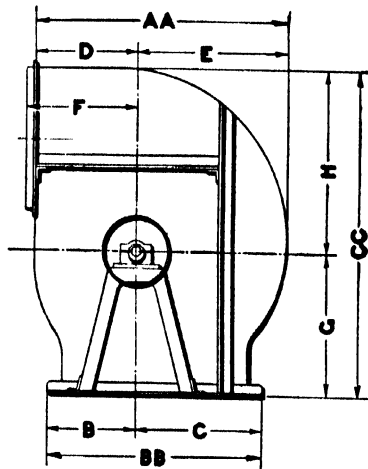
## Multivane Fan—Design 2

Single Width

Full Housing

Top Horizontal Discharge

Overhung Pulley



| Fan Size | A  | B  | C  | D  | E  | F  | G  | H  | J  | K  | M  | O  | P  | Q  | R  | V  | W  | AA  | BB  | CC  | DD  | EE  | Extreme Wheel Diameter | Shaft Dia. | Anchor Bolts | Fan |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|------------------------|------------|--------------|-----|
| 8        | 30 | 19 | 27 | 23 | 33 | 25 | 30 | 39 | 30 | 30 | 36 | 24 | 29 | 27 | 34 | 9  | 16 | 56  | 47  | 69  | 65  | 57  | 35                     | 2 1/8      | 3/4          | 3/4 |
| 9        | 35 | 23 | 32 | 26 | 39 | 28 | 35 | 45 | 34 | 35 | 42 | 28 | 34 | 32 | 40 | 10 | 18 | 66  | 56  | 81  | 75  | 67  | 40                     | 2 1/8      | 3/4          | 3/4 |
| 10       | 40 | 25 | 36 | 30 | 45 | 32 | 40 | 52 | 38 | 38 | 48 | 32 | 38 | 35 | 43 | 10 | 20 | 75  | 62  | 93  | 82  | 73  | 46                     | 2 1/8      | 1            | 3/4 |
| 11       | 45 | 28 | 40 | 34 | 50 | 36 | 45 | 58 | 42 | 41 | 54 | 36 | 41 | 38 | 47 | 12 | 22 | 85  | 69  | 104 | 90  | 80  | 52                     | 2 1/8      | 1            | 3/4 |
| 12       | 49 | 33 | 46 | 38 | 56 | 40 | 51 | 65 | 46 | 45 | 60 | 40 | 45 | 43 | 51 | 12 | 24 | 94  | 79  | 116 | 97  | 89  | 58                     | 2 1/8      | 1            | 3/4 |
| 13       | 51 | 36 | 51 | 42 | 61 | 44 | 55 | 71 | 51 | 49 | 66 | 44 | 50 | 46 | 56 | 13 | 28 | 103 | 87  | 127 | 107 | 96  | 64                     | 3 1/8      | 1            | 3/4 |
| 14       | 59 | 39 | 55 | 45 | 67 | 48 | 60 | 78 | 54 | 51 | 72 | 48 | 54 | 49 | 58 | 13 | 32 | 113 | 94  | 139 | 113 | 103 | 69                     | 3 1/8      | 1            | 3/4 |
| 15       | 64 | 43 | 60 | 49 | 73 | 52 | 65 | 84 | 59 | 56 | 78 | 52 | 58 | 53 | 64 | 14 | 36 | 122 | 103 | 150 | 123 | 111 | 75                     | 3 1/8      | 1            | 3/4 |
| 16       | 69 | 45 | 64 | 53 | 78 | 55 | 70 | 91 | 64 | 60 | 85 | 56 | 62 | 56 | 67 | 14 | 42 | 132 | 109 | 161 | 132 | 118 | 81                     | 4 1/8      | 1 1/2        | 3/4 |
| 17       | 74 | 48 | 68 | 57 | 84 | 60 | 74 | 97 | 69 | 64 | 91 | 60 | 66 | 59 | 71 | 14 | 48 | 141 | 116 | 172 | 140 | 126 | 87                     | 5          | 1 1/2        | 3/4 |

Single Inlet

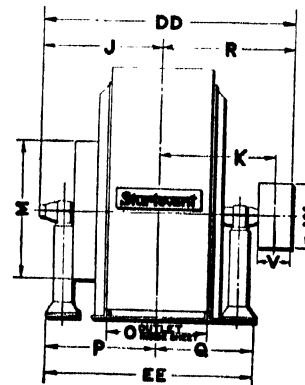
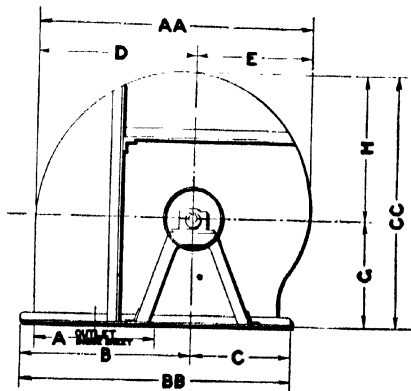
## Multivane Fan—Design 2

Single Width

Full Housing

Down Blast Discharge

Overhung Pulley



| Fan Size | A   | B    | C   | D   | E   | G   | H   | J   | K   | M   | O  | P   | Q   | R   | V   | W  | AA   | BB   | CC   | DD   | EE   | Extreme Wheel Dia. | Shaft Dia. | Anchor Bolts |     |
|----------|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|----|-----|-----|-----|-----|----|------|------|------|------|------|--------------------|------------|--------------|-----|
|          |     |      |     |     |     |     |     |     |     |     |    |     |     |     |     |    |      |      |      |      |      |                    |            | Pedestal     | Fan |
| 8        | 29½ | 41½  | 23½ | 39½ | 28½ | 30½ | 33½ | 30½ | 30½ | 36½ | 24 | 29½ | 27½ | 34½ | 9   | 16 | 67½  | 65½  | 64½  | 65   | 57½  | 35                 | 2 1/8      | 1            | 1   |
| 9        | 34½ | 49½  | 27½ | 45½ | 33½ | 35½ | 39½ | 34½ | 35½ | 42½ | 28 | 34½ | 32½ | 40½ | 10½ | 18 | 79   | 76½  | 75   | 75   | 67½  | 40½                | 2 1/8      | 1            | 1   |
| 10       | 39½ | 55½  | 31½ | 52½ | 37½ | 40½ | 45½ | 38½ | 38½ | 48½ | 32 | 38½ | 35½ | 43½ | 10½ | 20 | 90   | 87½  | 85½  | 82   | 73½  | 46½                | 2 1/8      | 1            | 1   |
| 11       | 44½ | 62½  | 34½ | 58½ | 42½ | 45½ | 50½ | 42½ | 41½ | 54½ | 36 | 41½ | 38½ | 47½ | 12  | 22 | 101½ | 96½  | 96½  | 90½  | 80½  | 52½                | 2 1/8      | 1            | 1   |
| 12       | 49½ | 70½  | 40  | 65½ | 47½ | 42½ | 56½ | 46½ | 45½ | 60½ | 40 | 45½ | 43½ | 51½ | 12  | 24 | 112½ | 110½ | 98½  | 97½  | 89½  | 58½                | 2 1/8      | 1            | 1   |
| 13       | 54½ | 76½  | 43  | 71½ | 51½ | 46  | 61½ | 51  | 49½ | 66½ | 44 | 50½ | 46½ | 56½ | 13½ | 28 | 123½ | 119½ | 107½ | 107½ | 96½  | 64                 | 3 1/8      | 1            | 1   |
| 14       | 58½ | 83½  | 47  | 78½ | 56½ | 49½ | 67½ | 54½ | 51½ | 72½ | 48 | 54½ | 49½ | 58½ | 13½ | 32 | 135  | 130½ | 117½ | 113  | 103½ | 69½                | 3 1/8      | 1            | 1   |
| 15       | 63½ | 90½  | 51  | 84½ | 61½ | 53½ | 73½ | 59½ | 56½ | 78½ | 52 | 58½ | 53½ | 64½ | 14½ | 36 | 146½ | 141½ | 126½ | 123½ | 111½ | 75½                | 3 1/8      | 1            | 1   |
| 16       | 68½ | 97½  | 55  | 91½ | 66½ | 57½ | 78½ | 64½ | 60½ | 85  | 56 | 62½ | 56½ | 67½ | 14½ | 42 | 157½ | 152½ | 136  | 132½ | 118½ | 81½                | 4 1/8      | 1 1/2        | 1   |
| 17       | 73½ | 103½ | 58  | 97½ | 70½ | 61½ | 84½ | 69½ | 64  | 91  | 60 | 66½ | 59½ | 71½ | 14½ | 48 | 168½ | 161½ | 145½ | 140½ | 126½ | 87½                | 5          | 1 1/2        | 1   |

Double Inlet

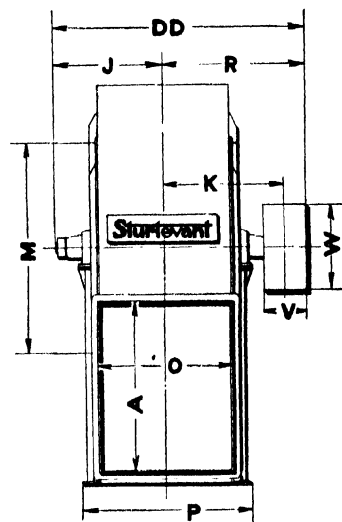
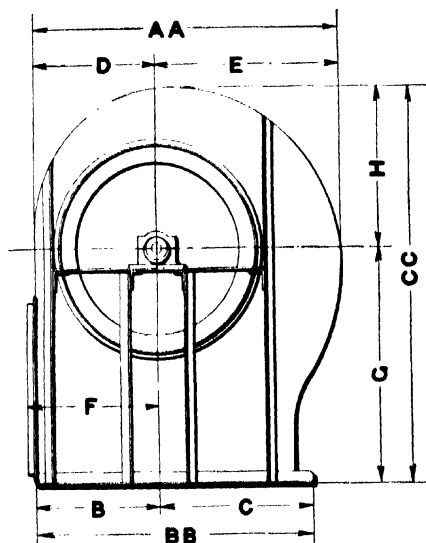
## Multivane Fan—Design 2

Single Width

Full Housing

Bottom Horizontal Discharge

Overhung Pulley



| Fan Size | A                | B                | C                | D                | E                | F                | G                 | H                | J                | K                | M                | O                | P                | R                | V                | W  | AA                | BB                | CC                | DD                | Extreme Wheel Dia. | Shaft Dia.       | Anchor Bolts |
|----------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|----|-------------------|-------------------|-------------------|-------------------|--------------------|------------------|--------------|
| 8        | 30 $\frac{1}{2}$ | 23               | 27 $\frac{1}{2}$ | 23               | 33 $\frac{1}{2}$ | 25               | 41 $\frac{1}{2}$  | 28 $\frac{1}{2}$ | 21 $\frac{1}{2}$ | 23 $\frac{1}{2}$ | 36 $\frac{3}{8}$ | 24 $\frac{1}{8}$ | 29 $\frac{1}{2}$ | 27 $\frac{1}{2}$ | 9                | 16 | 56 $\frac{1}{2}$  | 50 $\frac{1}{2}$  | 70 $\frac{1}{2}$  | 49 $\frac{1}{2}$  | 35                 | 2 $\frac{3}{16}$ | 3            |
| 9        | 35 $\frac{1}{2}$ | 26 $\frac{1}{2}$ | 32 $\frac{1}{2}$ | 26 $\frac{1}{2}$ | 39 $\frac{1}{2}$ | 28 $\frac{1}{2}$ | 48 $\frac{1}{2}$  | 33 $\frac{1}{2}$ | 21 $\frac{1}{2}$ | 26 $\frac{1}{2}$ | 42 $\frac{1}{2}$ | 28 $\frac{1}{2}$ | 35 $\frac{1}{2}$ | 31 $\frac{1}{2}$ | 10 $\frac{1}{2}$ | 18 | 66 $\frac{1}{2}$  | 59 $\frac{1}{2}$  | 81 $\frac{1}{2}$  | 55 $\frac{1}{2}$  | 40 $\frac{1}{2}$   | 2 $\frac{1}{16}$ | 4            |
| 10       | 40               | 30 $\frac{1}{2}$ | 36 $\frac{1}{2}$ | 30 $\frac{1}{2}$ | 45               | 32 $\frac{1}{2}$ | 55                | 37 $\frac{1}{2}$ | 27 $\frac{1}{2}$ | 29               | 48 $\frac{1}{2}$ | 32 $\frac{1}{2}$ | 39 $\frac{1}{2}$ | 34 $\frac{1}{2}$ | 10 $\frac{1}{2}$ | 20 | 75 $\frac{1}{2}$  | 67                | 92 $\frac{1}{2}$  | 61 $\frac{1}{2}$  | 46 $\frac{1}{2}$   | 2 $\frac{1}{8}$  | 7            |
| 11       | 45               | 34 $\frac{1}{2}$ | 40 $\frac{1}{2}$ | 34 $\frac{1}{2}$ | 50 $\frac{1}{2}$ | 36 $\frac{1}{2}$ | 61 $\frac{1}{2}$  | 42 $\frac{1}{2}$ | 30               | 32               | 54 $\frac{1}{2}$ | 36 $\frac{1}{2}$ | 43 $\frac{1}{2}$ | 38               | 12               | 22 | 85                | 74 $\frac{1}{2}$  | 104               | 68                | 52 $\frac{1}{2}$   | 2 $\frac{1}{8}$  | 7            |
| 12       | 49 $\frac{1}{2}$ | 38 $\frac{1}{2}$ | 46               | 38 $\frac{1}{2}$ | 56 $\frac{1}{2}$ | 40 $\frac{1}{2}$ | 69 $\frac{1}{2}$  | 47 $\frac{1}{2}$ | 32               | 34               | 60 $\frac{1}{2}$ | 40 $\frac{1}{2}$ | 50 $\frac{1}{2}$ | 40               | 12               | 24 | 94 $\frac{1}{2}$  | 84 $\frac{1}{2}$  | 116 $\frac{1}{2}$ | 72                | 58 $\frac{1}{2}$   | 2 $\frac{1}{8}$  | 7            |
| 13       | 54 $\frac{1}{2}$ | 42               | 51               | 42               | 61 $\frac{1}{2}$ | 44 $\frac{1}{2}$ | 75 $\frac{1}{2}$  | 51 $\frac{1}{2}$ | 35 $\frac{1}{2}$ | 37 $\frac{1}{2}$ | 66 $\frac{1}{2}$ | 44 $\frac{1}{2}$ | 54 $\frac{1}{2}$ | 44 $\frac{1}{2}$ | 13 $\frac{1}{2}$ | 28 | 103 $\frac{1}{2}$ | 93                | 127 $\frac{1}{2}$ | 79 $\frac{1}{2}$  | 64                 | 3 $\frac{1}{16}$ | 7            |
| 14       | 59 $\frac{1}{2}$ | 46 $\frac{1}{2}$ | 55               | 45 $\frac{1}{2}$ | 67 $\frac{1}{2}$ | 48 $\frac{1}{2}$ | 82 $\frac{1}{2}$  | 56 $\frac{1}{2}$ | 37 $\frac{1}{2}$ | 39 $\frac{1}{2}$ | 72 $\frac{1}{2}$ | 48 $\frac{1}{2}$ | 58 $\frac{1}{2}$ | 46 $\frac{1}{2}$ | 13 $\frac{1}{2}$ | 32 | 113 $\frac{1}{2}$ | 100 $\frac{1}{2}$ | 139               | 83 $\frac{1}{2}$  | 69 $\frac{1}{2}$   | 3 $\frac{1}{16}$ | 7            |
| 15       | 64 $\frac{1}{2}$ | 49 $\frac{1}{2}$ | 60               | 49 $\frac{1}{2}$ | 73 $\frac{1}{2}$ | 52 $\frac{1}{2}$ | 88 $\frac{1}{2}$  | 61 $\frac{1}{2}$ | 41 $\frac{1}{2}$ | 43 $\frac{1}{2}$ | 78 $\frac{1}{2}$ | 52 $\frac{1}{2}$ | 64 $\frac{1}{2}$ | 51               | 14 $\frac{1}{2}$ | 36 | 122 $\frac{1}{2}$ | 109 $\frac{1}{2}$ | 150 $\frac{1}{2}$ | 92 $\frac{1}{2}$  | 75 $\frac{1}{2}$   | 3 $\frac{1}{8}$  | 7            |
| 16       | 69 $\frac{1}{2}$ | 53 $\frac{1}{2}$ | 64               | 53 $\frac{1}{2}$ | 78 $\frac{1}{2}$ | 55 $\frac{1}{2}$ | 95 $\frac{1}{2}$  | 66               | 44 $\frac{1}{2}$ | 46 $\frac{1}{2}$ | 84 $\frac{1}{2}$ | 56 $\frac{1}{2}$ | 68 $\frac{1}{2}$ | 54               | 14 $\frac{1}{2}$ | 42 | 132               | 117 $\frac{1}{2}$ | 161 $\frac{1}{2}$ | 98 $\frac{1}{2}$  | 81 $\frac{1}{2}$   | 4 $\frac{1}{8}$  | 7            |
| 17       | 74 $\frac{1}{2}$ | 57 $\frac{1}{2}$ | 68               | 57 $\frac{1}{2}$ | 84 $\frac{1}{2}$ | 60 $\frac{1}{2}$ | 101 $\frac{1}{2}$ | 70 $\frac{1}{2}$ | 48 $\frac{1}{2}$ | 50 $\frac{1}{2}$ | 90 $\frac{1}{2}$ | 60 $\frac{1}{2}$ | 72 $\frac{1}{2}$ | 57 $\frac{1}{2}$ | 14 $\frac{1}{2}$ | 48 | 141 $\frac{1}{2}$ | 125 $\frac{1}{2}$ | 172 $\frac{1}{2}$ | 105 $\frac{1}{2}$ | 87 $\frac{1}{2}$   | 5                | 1            |

Double Inlet

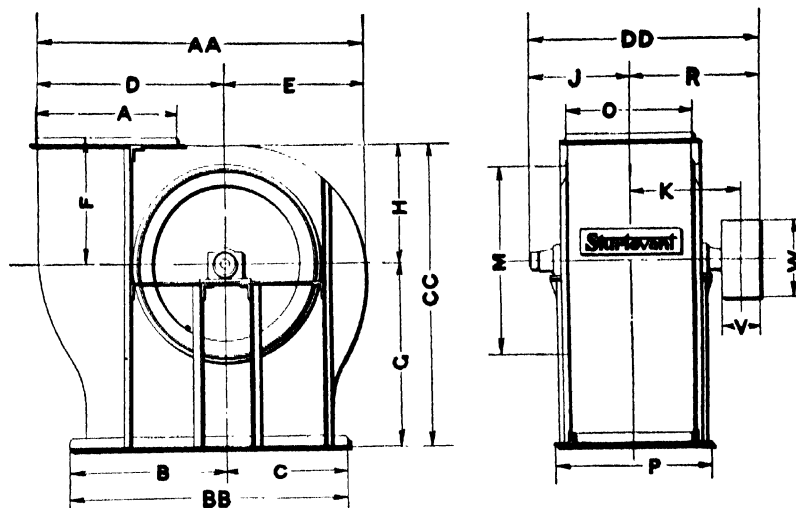
## Multivane Fan—Design 2

Single Width

Full Housing

Up Blast Discharge

Overhung Pulley



| Fan Size | A                | B                | C                | D                | E                | F                | G                | H                | J                | K                | M                | O                | P                | R                | V                | W  | AA                | BB  | CC                | DD                | Extreme Wheel Dia. | Shaft Dia.      | An. Bolts |
|----------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|----|-------------------|-----|-------------------|-------------------|--------------------|-----------------|-----------|
| 8        | 30 $\frac{1}{8}$ | 31 $\frac{1}{2}$ | 23 $\frac{1}{2}$ | 39 $\frac{1}{8}$ | 28 $\frac{1}{2}$ | 25               | 41 $\frac{1}{2}$ | 23               | 21 $\frac{1}{2}$ | 23 $\frac{1}{2}$ | 36 $\frac{1}{2}$ | 24 $\frac{1}{2}$ | 29 $\frac{1}{2}$ | 27 $\frac{1}{2}$ | 9                | 16 | 67 $\frac{1}{2}$  | 55  | 64 $\frac{1}{2}$  | 49 $\frac{1}{2}$  | 35                 | 2 $\frac{3}{8}$ | 4         |
| 9        | 35 $\frac{1}{8}$ | 37 $\frac{1}{2}$ | 27 $\frac{1}{2}$ | 45 $\frac{1}{8}$ | 33 $\frac{1}{2}$ | 28 $\frac{1}{2}$ | 48 $\frac{1}{2}$ | 26 $\frac{1}{2}$ | 24 $\frac{1}{2}$ | 26 $\frac{1}{2}$ | 42 $\frac{1}{2}$ | 28 $\frac{1}{2}$ | 35 $\frac{1}{2}$ | 31 $\frac{1}{2}$ | 10 $\frac{1}{2}$ | 18 | 79                | 65  | 75 $\frac{1}{2}$  | 55 $\frac{1}{2}$  | 40 $\frac{1}{2}$   | 2 $\frac{1}{2}$ | 4         |
| 10       | 40               | 42 $\frac{1}{2}$ | 31 $\frac{1}{2}$ | 52 $\frac{1}{4}$ | 37 $\frac{1}{2}$ | 32 $\frac{1}{2}$ | 55               | 30 $\frac{1}{2}$ | 27 $\frac{1}{2}$ | 29               | 48 $\frac{1}{2}$ | 32 $\frac{1}{2}$ | 39 $\frac{1}{2}$ | 34 $\frac{1}{2}$ | 10 $\frac{1}{2}$ | 20 | 90                | 74  | 85 $\frac{1}{2}$  | 61 $\frac{1}{2}$  | 46 $\frac{1}{2}$   | 2 $\frac{1}{2}$ | 4         |
| 11       | 45               | 46 $\frac{1}{2}$ | 34 $\frac{1}{2}$ | 58 $\frac{1}{4}$ | 42 $\frac{1}{2}$ | 36 $\frac{1}{2}$ | 61 $\frac{1}{2}$ | 34 $\frac{1}{2}$ | 30               | 32               | 54 $\frac{1}{2}$ | 36 $\frac{1}{2}$ | 43 $\frac{1}{2}$ | 38               | 12               | 22 | 101 $\frac{1}{2}$ | 81  | 95 $\frac{1}{2}$  | 68                | 52 $\frac{1}{2}$   | 2 $\frac{1}{2}$ | 4         |
| 12       | 49 $\frac{1}{8}$ | 53               | 40               | 65 $\frac{1}{8}$ | 47 $\frac{1}{2}$ | 40 $\frac{1}{2}$ | 60 $\frac{1}{2}$ | 38 $\frac{1}{2}$ | 32               | 34               | 60 $\frac{1}{2}$ | 40 $\frac{1}{2}$ | 50 $\frac{1}{2}$ | 40               | 12               | 24 | 112 $\frac{1}{2}$ | 93  | 98 $\frac{1}{2}$  | 72                | 58 $\frac{1}{2}$   | 2 $\frac{1}{2}$ | 4         |
| 13       | 54 $\frac{1}{4}$ | 58               | 43               | 71 $\frac{1}{4}$ | 51 $\frac{1}{2}$ | 44 $\frac{1}{2}$ | 65 $\frac{1}{2}$ | 42               | 35 $\frac{1}{2}$ | 37 $\frac{1}{2}$ | 66 $\frac{1}{2}$ | 44 $\frac{1}{2}$ | 54 $\frac{1}{2}$ | 41 $\frac{1}{2}$ | 13 $\frac{1}{2}$ | 28 | 123 $\frac{1}{2}$ | 101 | 107 $\frac{1}{2}$ | 79 $\frac{1}{2}$  | 64                 | 3 $\frac{1}{8}$ | 4         |
| 14       | 59 $\frac{3}{8}$ | 63               | 47               | 78 $\frac{3}{8}$ | 56 $\frac{1}{2}$ | 48 $\frac{1}{2}$ | 71 $\frac{1}{2}$ | 45 $\frac{1}{2}$ | 37 $\frac{1}{2}$ | 39 $\frac{1}{2}$ | 72 $\frac{1}{2}$ | 48 $\frac{1}{2}$ | 58 $\frac{1}{2}$ | 46 $\frac{1}{2}$ | 13 $\frac{1}{2}$ | 32 | 135               | 110 | 117 $\frac{1}{2}$ | 83 $\frac{1}{2}$  | 69 $\frac{1}{2}$   | 3 $\frac{1}{8}$ | 4         |
| 15       | 64 $\frac{1}{2}$ | 69               | 51               | 84 $\frac{1}{2}$ | 61 $\frac{1}{2}$ | 52 $\frac{1}{2}$ | 77 $\frac{1}{2}$ | 49 $\frac{1}{2}$ | 41 $\frac{1}{2}$ | 43 $\frac{1}{2}$ | 78 $\frac{1}{2}$ | 52 $\frac{1}{2}$ | 64 $\frac{1}{2}$ | 51               | 14 $\frac{1}{2}$ | 36 | 146 $\frac{1}{2}$ | 120 | 126 $\frac{1}{2}$ | 92 $\frac{1}{2}$  | 75 $\frac{1}{2}$   | 3 $\frac{1}{2}$ | 4         |
| 16       | 69 $\frac{1}{2}$ | 73               | 55               | 91 $\frac{1}{2}$ | 66               | 55 $\frac{1}{2}$ | 82 $\frac{1}{2}$ | 53 $\frac{1}{2}$ | 44 $\frac{1}{2}$ | 46 $\frac{1}{2}$ | 84 $\frac{1}{2}$ | 56 $\frac{1}{2}$ | 68 $\frac{1}{2}$ | 54               | 14 $\frac{1}{2}$ | 42 | 157 $\frac{1}{2}$ | 128 | 136               | 98 $\frac{1}{2}$  | 81 $\frac{1}{2}$   | 4 $\frac{1}{2}$ | 4         |
| 17       | 74 $\frac{1}{2}$ | 78               | 58               | 97 $\frac{1}{2}$ | 70 $\frac{1}{2}$ | 60 $\frac{1}{2}$ | 88 $\frac{1}{2}$ | 57 $\frac{1}{2}$ | 48 $\frac{1}{2}$ | 50 $\frac{1}{2}$ | 90 $\frac{1}{2}$ | 60 $\frac{1}{2}$ | 72 $\frac{1}{2}$ | 57 $\frac{1}{2}$ | 14 $\frac{1}{2}$ | 48 | 168 $\frac{1}{2}$ | 136 | 145 $\frac{1}{2}$ | 105 $\frac{1}{2}$ | 87 $\frac{1}{2}$   | 5               | 1         |

Double Inlet

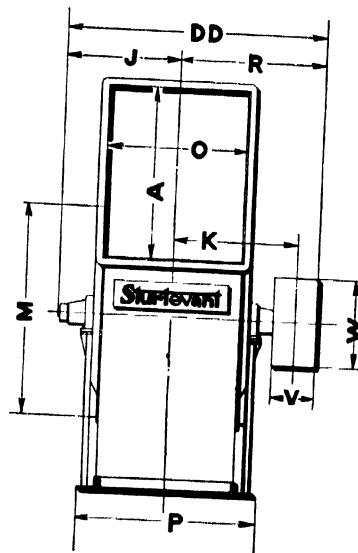
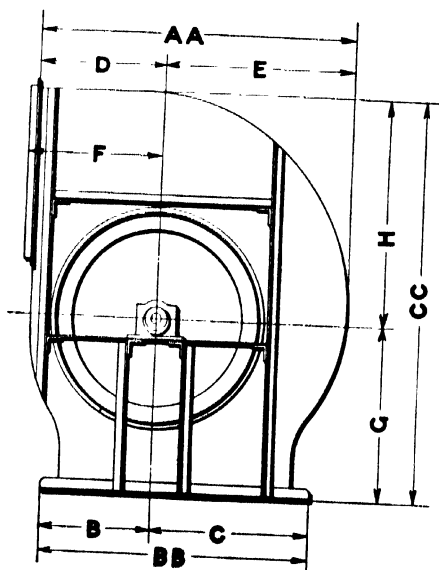
# Multivane Fan—Design 2

Single Width

Full Housing

Top Horizontal Discharge

Overhung Pulley



| Fan Size | A                | B                | C                | D                | E                | F                | G                | H                | J                | K                | M                | O                | P                | R                | V                | W  | AA                | BB  | CC                | DD                | Extreme Wheel Dia. | Shaft Dia.      | An. Bolts |
|----------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|----|-------------------|-----|-------------------|-------------------|--------------------|-----------------|-----------|
| 8        | 30 $\frac{1}{2}$ | 19 $\frac{1}{2}$ | 27 $\frac{1}{2}$ | 23               | 33 $\frac{1}{2}$ | 25               | 30 $\frac{1}{2}$ | 39 $\frac{1}{2}$ | 21 $\frac{1}{2}$ | 23 $\frac{1}{2}$ | 36 $\frac{1}{2}$ | 24 $\frac{1}{2}$ | 29 $\frac{1}{2}$ | 27 $\frac{1}{2}$ | 9                | 16 | 56 $\frac{1}{2}$  | 47  | 69 $\frac{1}{2}$  | 49 $\frac{1}{2}$  | 35                 | 2 $\frac{3}{8}$ | 3         |
| 9        | 35 $\frac{1}{2}$ | 23 $\frac{1}{2}$ | 32 $\frac{1}{2}$ | 26 $\frac{1}{2}$ | 39 $\frac{1}{2}$ | 28 $\frac{1}{2}$ | 35 $\frac{1}{2}$ | 45 $\frac{1}{2}$ | 24 $\frac{1}{2}$ | 26 $\frac{1}{2}$ | 42 $\frac{1}{2}$ | 28 $\frac{1}{2}$ | 35 $\frac{1}{2}$ | 31 $\frac{1}{2}$ | 10 $\frac{1}{2}$ | 18 | 66 $\frac{1}{2}$  | 56  | 81 $\frac{1}{2}$  | 55 $\frac{1}{2}$  | 40 $\frac{1}{2}$   | 2 $\frac{1}{2}$ | 3         |
| 10       | 40               | 25 $\frac{1}{2}$ | 36 $\frac{1}{2}$ | 30 $\frac{1}{2}$ | 45               | 32 $\frac{1}{2}$ | 40 $\frac{1}{2}$ | 52 $\frac{1}{2}$ | 27 $\frac{1}{2}$ | 29               | 48 $\frac{1}{2}$ | 32 $\frac{1}{2}$ | 39 $\frac{1}{2}$ | 34 $\frac{1}{2}$ | 10 $\frac{1}{2}$ | 20 | 75 $\frac{1}{2}$  | 62  | 93                | 61 $\frac{1}{2}$  | 46 $\frac{1}{2}$   | 2 $\frac{1}{2}$ | 3         |
| 11       | 45               | 28 $\frac{1}{2}$ | 40 $\frac{1}{2}$ | 34 $\frac{1}{2}$ | 50 $\frac{1}{2}$ | 36 $\frac{1}{2}$ | 45 $\frac{1}{2}$ | 58 $\frac{1}{2}$ | 30               | 32               | 54 $\frac{1}{2}$ | 36 $\frac{1}{2}$ | 43 $\frac{1}{2}$ | 38               | 12               | 22 | 85                | 69  | 104 $\frac{1}{2}$ | 68                | 52 $\frac{1}{2}$   | 2 $\frac{1}{2}$ | 3         |
| 12       | 49 $\frac{1}{2}$ | 33               | 46               | 38 $\frac{1}{2}$ | 56 $\frac{1}{2}$ | 40 $\frac{1}{2}$ | 51 $\frac{1}{2}$ | 65 $\frac{1}{2}$ | 32               | 34               | 60 $\frac{1}{2}$ | 40 $\frac{1}{2}$ | 50 $\frac{1}{2}$ | 40               | 12               | 24 | 94 $\frac{1}{2}$  | 79  | 116 $\frac{1}{2}$ | 72                | 58 $\frac{1}{2}$   | 2 $\frac{1}{2}$ | 3         |
| 13       | 51 $\frac{1}{2}$ | 36               | 51               | 42               | 61 $\frac{1}{2}$ | 44 $\frac{1}{2}$ | 55 $\frac{1}{2}$ | 71 $\frac{1}{2}$ | 35 $\frac{1}{2}$ | 37 $\frac{1}{2}$ | 66 $\frac{1}{2}$ | 44 $\frac{1}{2}$ | 54 $\frac{1}{2}$ | 44 $\frac{1}{2}$ | 13 $\frac{1}{2}$ | 28 | 103 $\frac{1}{2}$ | 87  | 127 $\frac{1}{2}$ | 79 $\frac{1}{2}$  | 64                 | 3 $\frac{1}{8}$ | 3         |
| 14       | 59 $\frac{1}{2}$ | 39               | 55               | 45 $\frac{1}{2}$ | 67 $\frac{1}{2}$ | 48 $\frac{1}{2}$ | 60 $\frac{1}{2}$ | 78 $\frac{1}{2}$ | 37 $\frac{1}{2}$ | 39 $\frac{1}{2}$ | 72 $\frac{1}{2}$ | 48 $\frac{1}{2}$ | 58 $\frac{1}{2}$ | 46 $\frac{1}{2}$ | 13 $\frac{1}{2}$ | 32 | 113 $\frac{1}{2}$ | 94  | 139               | 83 $\frac{1}{2}$  | 69 $\frac{1}{2}$   | 3 $\frac{1}{8}$ | 3         |
| 15       | 64 $\frac{1}{2}$ | 43               | 60               | 49 $\frac{1}{2}$ | 73 $\frac{1}{2}$ | 52 $\frac{1}{2}$ | 65 $\frac{1}{2}$ | 84 $\frac{1}{2}$ | 41 $\frac{1}{2}$ | 43 $\frac{1}{2}$ | 78 $\frac{1}{2}$ | 52 $\frac{1}{2}$ | 64 $\frac{1}{2}$ | 51               | 14 $\frac{1}{2}$ | 36 | 122 $\frac{1}{2}$ | 103 | 150 $\frac{1}{2}$ | 92 $\frac{1}{2}$  | 75 $\frac{1}{2}$   | 3 $\frac{1}{8}$ | 3         |
| 16       | 69 $\frac{1}{2}$ | 45               | 64               | 53 $\frac{1}{2}$ | 78 $\frac{1}{2}$ | 55 $\frac{1}{2}$ | 70               | 91 $\frac{1}{2}$ | 44 $\frac{1}{2}$ | 46 $\frac{1}{2}$ | 84 $\frac{1}{2}$ | 56 $\frac{1}{2}$ | 68 $\frac{1}{2}$ | 54               | 14 $\frac{1}{2}$ | 42 | 132               | 109 | 161 $\frac{1}{2}$ | 98 $\frac{1}{2}$  | 81 $\frac{1}{2}$   | 4 $\frac{1}{2}$ | 3         |
| 17       | 74 $\frac{1}{2}$ | 48               | 68               | 57 $\frac{1}{2}$ | 84 $\frac{1}{2}$ | 60 $\frac{1}{2}$ | 74 $\frac{1}{2}$ | 97 $\frac{1}{2}$ | 48 $\frac{1}{2}$ | 50 $\frac{1}{2}$ | 90 $\frac{1}{2}$ | 60 $\frac{1}{2}$ | 72 $\frac{1}{2}$ | 57 $\frac{1}{2}$ | 14 $\frac{1}{2}$ | 48 | 141 $\frac{1}{2}$ | 116 | 172 $\frac{1}{2}$ | 105 $\frac{1}{2}$ | 87 $\frac{1}{2}$   | 5               | 1         |

Double Inlet

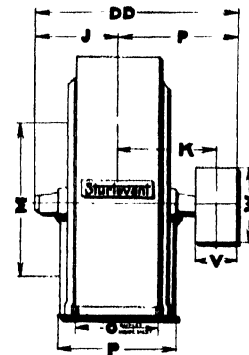
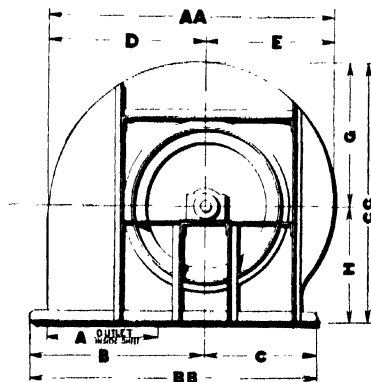
## Multivane Fan — Design 2

Single Width

Full Housing

Down Blast Discharge

Overhung Pulley



| Fan Size | A   | B    | C   | D   | E   | G   | H   | J   | K   | M   | O  | P   | R   | V   | W  | AA   | BB   | CC   | DD   | Extreme Wheel Dia. | Shaft Dia. | Anchor Bolts |
|----------|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|----|-----|-----|-----|----|------|------|------|------|--------------------|------------|--------------|
| 8        | 29½ | 41½  | 23½ | 39½ | 28½ | 30½ | 33½ | 21½ | 23½ | 36½ | 24 | 29½ | 27½ | 9   | 16 | 67½  | 65½  | 64½  | 49½  | 35                 | 2 1/8      | 1            |
| 9        | 34½ | 49½  | 27½ | 45½ | 33½ | 35½ | 39½ | 24½ | 26½ | 42½ | 28 | 35½ | 31½ | 10½ | 18 | 79   | 76½  | 75   | 55½  | 40½                | 2 1/8      | 1            |
| 10       | 39½ | 55½  | 31½ | 52½ | 37½ | 40½ | 45  | 27½ | 29  | 48½ | 32 | 39½ | 34½ | 10½ | 20 | 90   | 87½  | 85½  | 61½  | 46½                | 2 1/8      | 1            |
| 11       | 44½ | 62½  | 34½ | 58½ | 42½ | 45½ | 50½ | 30  | 32  | 54½ | 36 | 43½ | 38  | 12  | 22 | 101½ | 96½  | 96½  | 68   | 52½                | 2 1/8      | 1            |
| 12       | 49½ | 70½  | 40  | 65½ | 47½ | 42½ | 56½ | 32  | 34  | 60½ | 40 | 50½ | 40  | 12  | 24 | 112½ | 110½ | 98½  | 72   | 58½                | 2 1/8      | 1            |
| 13       | 54½ | 76½  | 43  | 71½ | 51½ | 46½ | 61½ | 35½ | 37½ | 66½ | 44 | 54½ | 44½ | 13½ | 28 | 123½ | 119½ | 107½ | 79½  | 64                 | 3 1/8      | 1            |
| 14       | 58½ | 83½  | 47  | 78½ | 56½ | 49½ | 67½ | 37½ | 39½ | 72½ | 48 | 58½ | 46½ | 13½ | 32 | 135  | 130½ | 117½ | 83½  | 69½                | 3 1/8      | 1            |
| 15       | 63½ | 90½  | 51  | 84½ | 61½ | 53½ | 73½ | 41½ | 43½ | 78½ | 52 | 64½ | 51  | 14½ | 36 | 146½ | 141½ | 126½ | 92½  | 75½                | 3 1/8      | 1            |
| 16       | 68½ | 97½  | 55  | 91½ | 66  | 57½ | 78½ | 44½ | 46½ | 84½ | 56 | 68½ | 54  | 14½ | 42 | 157½ | 152½ | 136  | 98½  | 81½                | 4 1/8      | 1            |
| 17       | 73½ | 103½ | 58  | 97½ | 70½ | 61½ | 84½ | 48½ | 50½ | 90½ | 60 | 72½ | 57½ | 14½ | 48 | 168½ | 161½ | 145½ | 105½ | 87½                | 5          | 1            |



Single Inlet

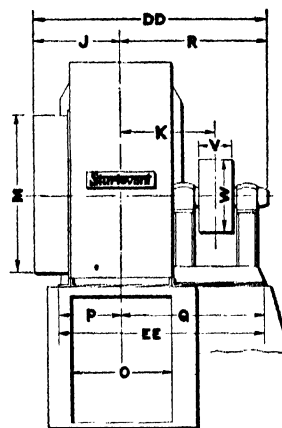
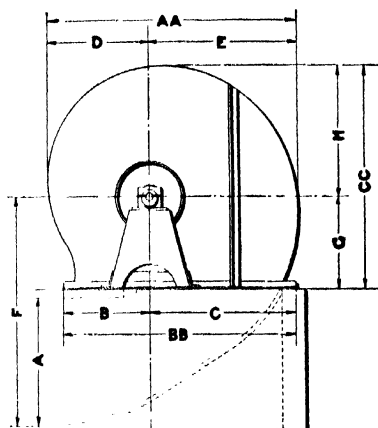
**Multivane Fan—Design 2**

Single Width

 $\frac{7}{8}$  Housing

Bottom Horizontal Discharge

Overhung Wheel



| Fan Size | A  | B  | C  | D  | E  | F   | G  | H  | J  | K  | M  | O  | P  | Q  | R  | V  | W  | AA  | BB  | CC  | DD  | EE  | Extreme Wheel Diameter | Shaft Dia. | Anchor Bolts |
|----------|----|----|----|----|----|-----|----|----|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|------------------------|------------|--------------|
|          |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |     |     |     |     |     |                        |            |              |
| 10       | 39 | 27 | 45 | 32 | 47 | 72  | 29 | 40 | 27 | 30 | 48 | 32 | 19 | 45 | 46 | 10 | 20 | 80  | 73  | 69  | 73  | 65  | 46                     | 2 1/8      | 1            |
| 11       | 41 | 30 | 51 | 37 | 53 | 80  | 32 | 45 | 30 | 33 | 54 | 36 | 21 | 50 | 50 | 12 | 22 | 90  | 81  | 77  | 81  | 71  | 52                     | 2 1/8      | 1            |
| 12       | 49 | 35 | 57 | 41 | 59 | 90  | 36 | 50 | 33 | 35 | 60 | 40 | 25 | 52 | 52 | 12 | 24 | 100 | 92  | 86  | 86  | 77  | 58                     | 2 1/8      | 1            |
| 13       | 51 | 38 | 62 | 45 | 65 | 98  | 39 | 55 | 37 | 38 | 66 | 44 | 27 | 58 | 58 | 13 | 28 | 110 | 100 | 95  | 95  | 85  | 64                     | 3 1/8      | 1            |
| 14       | 59 | 42 | 68 | 49 | 71 | 106 | 42 | 60 | 40 | 40 | 72 | 48 | 29 | 60 | 60 | 13 | 32 | 120 | 110 | 103 | 101 | 89  | 69                     | 3 1/8      | 1            |
| 15       | 64 | 45 | 76 | 53 | 77 | 113 | 45 | 65 | 43 | 44 | 78 | 52 | 32 | 66 | 67 | 14 | 36 | 130 | 120 | 111 | 110 | 98  | 75                     | 3 1/8      | 1            |
| 16       | 69 | 47 | 80 | 57 | 82 | 121 | 48 | 70 | 47 | 47 | 85 | 56 | 34 | 71 | 72 | 14 | 42 | 140 | 127 | 119 | 119 | 105 | 81                     | 4 1/8      | 1            |
| 17       | 73 | 51 | 85 | 61 | 88 | 130 | 52 | 75 | 50 | 51 | 91 | 60 | 36 | 76 | 77 | 14 | 48 | 150 | 136 | 127 | 128 | 112 | 87                     | 5          | 1 1/2        |

Single Inlet

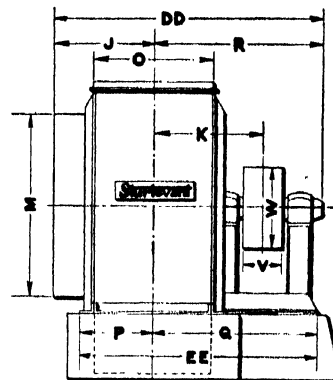
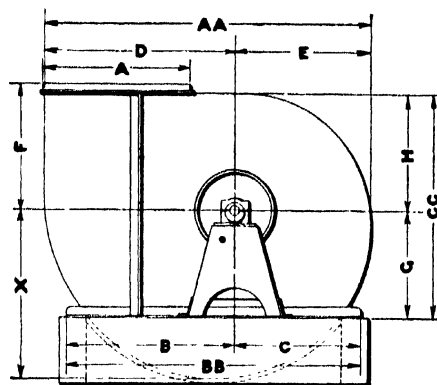
## Multivane Fan—Design 2

Single Width

 $\frac{7}{8}$  Housing

Up Blast Discharge

Overhung Wheel



| Size | A  | B  | C  | D  | E  | F  | G  | H  | J  | K  | M  | O  | P  | Q  | R  | V  | W  | X  | AA  | BB  | CC  | DD  | EE  | Ex. Wheel Dia. | Shaft Dia. | Anchor Hanger | Bottom Fan |
|------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|----------------|------------|---------------|------------|
| 10   | 40 | 45 | 34 | 52 | 37 | 32 | 29 | 30 | 27 | 30 | 48 | 32 | 19 | 45 | 46 | 10 | 20 | 45 | 90  | 80  | 59  | 73  | 65  | 46             | 2 1/2      | 1             | 1          |
| 11   | 45 | 51 | 38 | 58 | 42 | 36 | 32 | 34 | 30 | 33 | 54 | 36 | 21 | 50 | 50 | 12 | 22 | 50 | 101 | 89  | 66  | 81  | 71  | 52             | 2 1/2      | 1             | 1          |
| 12   | 49 | 57 | 43 | 65 | 47 | 40 | 36 | 38 | 33 | 35 | 60 | 40 | 25 | 52 | 52 | 12 | 24 | 56 | 112 | 101 | 74  | 86  | 77  | 58             | 2 1/2      | 1             | 1          |
| 13   | 54 | 62 | 47 | 71 | 51 | 44 | 39 | 42 | 37 | 38 | 66 | 44 | 27 | 58 | 58 | 13 | 28 | 61 | 123 | 110 | 81  | 95  | 85  | 64             | 3 1/2      | 1             | 1          |
| 14   | 59 | 68 | 51 | 78 | 56 | 48 | 42 | 45 | 40 | 40 | 72 | 48 | 29 | 60 | 60 | 13 | 32 | 67 | 135 | 120 | 88  | 101 | 89  | 69             | 3 1/2      | 1             | 1          |
| 15   | 64 | 75 | 57 | 84 | 61 | 52 | 45 | 49 | 43 | 44 | 78 | 52 | 32 | 66 | 67 | 14 | 36 | 73 | 146 | 132 | 95  | 110 | 98  | 75             | 3 1/2      | 1             | 1          |
| 16   | 69 | 80 | 60 | 91 | 66 | 55 | 48 | 53 | 47 | 47 | 85 | 56 | 34 | 71 | 72 | 14 | 42 | 78 | 157 | 141 | 102 | 119 | 105 | 81             | 4 1/2      | 1             | 1          |
| 17   | 74 | 85 | 64 | 97 | 70 | 60 | 52 | 57 | 50 | 51 | 91 | 60 | 36 | 76 | 77 | 14 | 48 | 84 | 168 | 150 | 109 | 128 | 112 | 87             | 5          | 1 1/2         | 1          |

Single Inlet

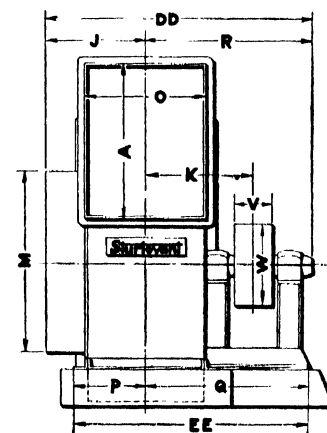
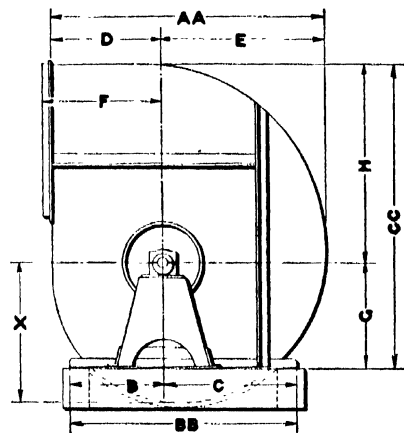
## Multivane Fan—Design 2

Single Width

 $\frac{7}{8}$  Housing

Top Horizontal Discharge

Overhung Wheel



| Fan Size | A  | B  | C  | D  | E  | F  | G  | H  | J  | K  | M  | O  | P  | Q  | R  | V  | W  | X   | AA  | BB  | CC  | DD  | EE | Extreme Wheel Diameter | Shaft Dia. | Anchor Hanger | Bolts Fan |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|----|------------------------|------------|---------------|-----------|
| 10-40    | 25 | 36 | 30 | 45 | 32 | 29 | 52 | 27 | 30 | 48 | 32 | 19 | 45 | 46 | 10 | 20 | 37 | 75  | 61  | 81  | 73  | 65  | 46 | 2                      | 1          | 1             | 7         |
| 11-45    | 28 | 40 | 34 | 50 | 36 | 32 | 58 | 30 | 33 | 54 | 36 | 21 | 50 | 50 | 12 | 22 | 42 | 85  | 69  | 90  | 81  | 71  | 52 | 2                      | 1          | 1             | 7         |
| 12-49    | 32 | 45 | 38 | 56 | 40 | 36 | 65 | 33 | 35 | 60 | 40 | 25 | 52 | 52 | 12 | 24 | 47 | 94  | 78  | 101 | 86  | 77  | 58 | 2                      | 1          | 1             | 7         |
| 13-54    | 35 | 49 | 42 | 61 | 44 | 39 | 71 | 37 | 38 | 66 | 44 | 27 | 58 | 58 | 13 | 28 | 51 | 103 | 85  | 111 | 95  | 85  | 64 | 3                      | 1          | 1             | 7         |
| 14-59    | 38 | 53 | 45 | 67 | 48 | 42 | 78 | 40 | 40 | 72 | 48 | 29 | 60 | 60 | 13 | 32 | 56 | 113 | 92  | 121 | 101 | 89  | 69 | 3                      | 1          | 1             | 7         |
| 15-64    | 42 | 59 | 49 | 73 | 52 | 45 | 84 | 43 | 41 | 78 | 52 | 32 | 66 | 67 | 14 | 36 | 61 | 122 | 102 | 130 | 110 | 98  | 75 | 3                      | 1          | 1             | 7         |
| 16-69    | 45 | 63 | 53 | 78 | 55 | 48 | 91 | 47 | 47 | 85 | 56 | 34 | 71 | 72 | 14 | 42 | 66 | 132 | 108 | 140 | 119 | 105 | 81 | 4                      | 1          | 1             | 7         |
| 17-74    | 48 | 67 | 57 | 84 | 60 | 52 | 97 | 50 | 51 | 91 | 60 | 36 | 76 | 77 | 14 | 48 | 70 | 141 | 115 | 149 | 128 | 112 | 87 | 5                      | 1          | 1             | 7         |

Single Inlet

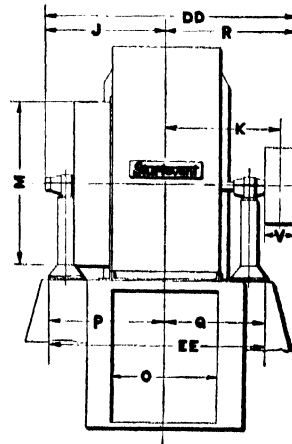
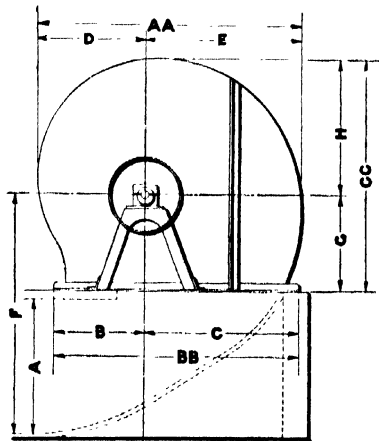
## Multivane Fan—Design 2

Single Width

 $\frac{7}{8}$  Housing

Bottom Horizontal Discharge

Overhung Pulley



| Fan Size | A    | B   | C    | D   | E    | F    | G   | H    | J    | K   | M    | O  | P   | Q   | R   | V   | W  | AA   | BB   | CC   | DD   | EE   | Extreme Wheel Diameter | Shaft Dia. | Anchor Bolts Pedestal Fan |
|----------|------|-----|------|-----|------|------|-----|------|------|-----|------|----|-----|-----|-----|-----|----|------|------|------|------|------|------------------------|------------|---------------------------|
| 10       | 39½  | 27½ | 45½  | 32½ | 47½  | 72½  | 29½ | 40½  | 38½  | 35½ | 48½  | 32 | 35½ | 30½ | 40½ | 10½ | 20 | 80½  | 73½  | 69½  | 79½  | 65½  | 46½                    | 2½         | 1                         |
| 11       | 44½  | 30½ | 51½  | 37½ | 53½  | 80½  | 32½ | 45½  | 42½  | 38½ | 54½  | 36 | 39½ | 33½ | 44½ | 12  | 22 | 90½  | 81½  | 77½  | 87½  | 72½  | 52½                    | 2½         | 1                         |
| 12       | 49½  | 35  | 57½  | 41½ | 59½  | 90   | 36½ | 50½  | 46½  | 43½ | 60½  | 40 | 43½ | 38½ | 49½ | 12  | 24 | 100½ | 92½  | 86½  | 95½  | 81½  | 58½                    | 2½         | 1                         |
| 13       | 54½  | 38  | 62½  | 45½ | 65   | 98½  | 39½ | 55½  | 51   | 46½ | 66½  | 44 | 47½ | 41½ | 53½ | 13½ | 28 | 110½ | 100½ | 95   | 104½ | 89½  | 64                     | 3½         | 1                         |
| 14       | 59½  | 42  | 68½  | 49½ | 71½  | 106  | 42½ | 60½  | 54½  | 49½ | 72½  | 48 | 51½ | 44½ | 56½ | 13½ | 32 | 120½ | 110½ | 103½ | 110½ | 96   | 69½                    | 3½         | 1                         |
| 15       | 64   | 45½ | 75   | 53½ | 77½  | 113½ | 45½ | 65½  | 59½  | 54½ | 78½  | 52 | 56½ | 49½ | 62½ | 14½ | 36 | 130½ | 120½ | 111  | 121½ | 105½ | 75½                    | 3½         | 1                         |
| 16       | 69   | 47  | 80½  | 57½ | 82½  | 121½ | 48½ | 70½  | 64½  | 58½ | 85   | 56 | 60½ | 52½ | 65½ | 14½ | 42 | 140½ | 127½ | 119½ | 130½ | 112½ | 81½                    | 4½         | 1                         |
| 17       | 73½  | 51½ | 85½  | 61½ | 88½  | 130  | 52½ | 75½  | 69½  | 62  | 91   | 60 | 64½ | 55½ | 69½ | 14½ | 48 | 150½ | 137½ | 127½ | 138½ | 120½ | 87½                    | 5          | 1½                        |
| 18       | 78½  | 59½ | 90½  | 65½ | 94½  | 137½ | 55½ | 80½  | 80½  |     | 97½  | 64 | 78½ | 64½ |     |     |    | 160½ | 150½ | 135½ |      | 142½ | 93½                    | 5½         | 1½                        |
| 20       | 88½  | 66  | 101½ | 74  | 106½ | 153½ | 61½ | 90½  | 88   |     | 109½ | 72 | 86½ | 70½ |     |     |    | 180½ | 167½ | 151½ |      | 156½ | 105                    | 6          | 1½                        |
| 22       | 98½  | 73  | 111½ | 82½ | 118½ | 170½ | 68  | 100½ | 94½  |     | 121½ | 80 | 94  | 76½ |     |     |    | 200½ | 184½ | 168½ |      | 170½ | 116½                   | 6½         | 1½                        |
| 24       | 108  | 79  | 122½ | 90½ | 130½ | 186  | 74  | 110½ | 101½ |     | 133½ | 88 | 102 | 82½ |     |     |    | 220½ | 201½ | 184½ |      | 184½ | 128                    | 7½         | 1½                        |
| 26       | 117½ | 86  | 133½ | 98½ | 141½ | 201½ | 80½ | 120½ | 107½ |     | 145½ | 96 | 109 | 88½ |     |     |    | 240½ | 219½ | 201½ |      | 197½ | 140                    | 8          | 1½                        |

Single Inlet

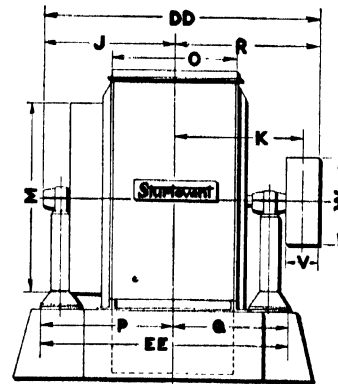
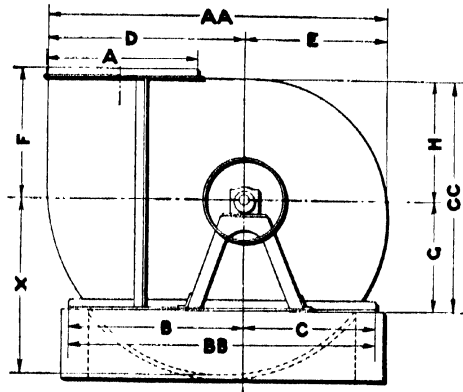
## Multivane Fan—Design 2

Single Width

 $\frac{7}{8}$  Housing

Up Blast Discharge

Overhung Pulley



| Size | A   | B   | C   | D   | E   | F  | G  | H   | J   | K  | M   | O  | P   | Q  | R  | V  | W  | X   | AA  | BB  | CC  | DD  | EE  | Ex. Wheel Dia. | Shaft Dia. | An. Bolts Ped. Fan |       |
|------|-----|-----|-----|-----|-----|----|----|-----|-----|----|-----|----|-----|----|----|----|----|-----|-----|-----|-----|-----|-----|----------------|------------|--------------------|-------|
| 0    | 10  | 45  | 31  | 52  | 37  | 32 | 29 | 30  | 38  | 35 | 48  | 32 | 35  | 30 | 40 | 10 | 20 | 45  | 90  | 80  | 59  | 79  | 65  | 46             | 2 1/8      | 1                  | 7/8   |
| 1    | 15  | 51  | 38  | 58  | 42  | 36 | 32 | 34  | 42  | 38 | 54  | 36 | 39  | 33 | 44 | 12 | 22 | 50  | 101 | 89  | 66  | 87  | 72  | 52             | 2 1/8      | 1                  | 7/8   |
| 2    | 49  | 57  | 43  | 65  | 47  | 40 | 36 | 38  | 46  | 43 | 60  | 40 | 43  | 38 | 49 | 12 | 24 | 56  | 112 | 101 | 74  | 95  | 81  | 58             | 2 1/8      | 1                  | 7/8   |
| 3    | 54  | 62  | 47  | 71  | 51  | 44 | 39 | 42  | 51  | 46 | 66  | 41 | 47  | 41 | 53 | 13 | 28 | 61  | 123 | 110 | 81  | 104 | 89  | 64             | 3 1/8      | 1                  | 7/8   |
| 4    | 59  | 68  | 51  | 78  | 56  | 48 | 42 | 45  | 54  | 49 | 72  | 48 | 51  | 44 | 56 | 13 | 32 | 67  | 135 | 120 | 88  | 110 | 96  | 69             | 3 1/8      | 1                  | 7/8   |
| 5    | 61  | 75  | 57  | 84  | 61  | 52 | 45 | 49  | 59  | 54 | 78  | 52 | 56  | 49 | 62 | 14 | 36 | 73  | 146 | 132 | 95  | 121 | 105 | 75             | 3 1/8      | 1                  | 7/8   |
| 6    | 69  | 80  | 61  | 91  | 66  | 55 | 48 | 53  | 64  | 58 | 85  | 56 | 60  | 52 | 65 | 14 | 42 | 78  | 157 | 141 | 102 | 130 | 112 | 81             | 4 1/8      | 1 1/2              | 1     |
| 7    | 74  | 85  | 64  | 97  | 70  | 60 | 52 | 57  | 69  | 62 | 91  | 60 | 64  | 55 | 69 | 14 | 48 | 84  | 168 | 150 | 109 | 138 | 120 | 87             | 5          | 1 1/2              | 1     |
| 8    | 79  | 90  | 68  | 104 | 75  | 64 | 55 | 60  | 80  |    | 97  | 64 | 78  | 64 |    |    |    | 89  | 179 | 159 | 116 |     | 142 | 93             | 5 1/2      | 1 1/2              | 1     |
| 9    | 89  | 101 | 76  | 117 | 84  | 72 | 61 | 68  | 88  |    | 109 | 72 | 86  | 70 |    |    |    | 101 | 202 | 178 | 129 |     | 156 | 105            | 6          | 1 1/2              | 1     |
| 2    | 98  | 111 | 84  | 130 | 94  | 79 | 68 | 76  | 94  |    | 121 | 80 | 94  | 76 |    |    |    | 112 | 224 | 196 | 144 |     | 170 | 116            | 6 1/2      | 1 1/2              | 1     |
| 108  | 122 | 92  | 143 | 103 | 88  | 74 | 83 | 101 | 133 | 89 | 102 | 82 |     |    |    |    |    | 123 | 247 | 215 | 157 |     | 184 | 128            | 7 1/2      | 1 1/2              | 1     |
| 6    | 118 | 133 | 100 | 156 | 113 | 95 | 80 | 91  | 107 |    | 145 | 97 | 109 | 88 |    |    |    | 134 | 269 | 234 | 171 |     | 197 | 140            | 8          | 1 1/2              | 1 1/2 |

Single Inlet

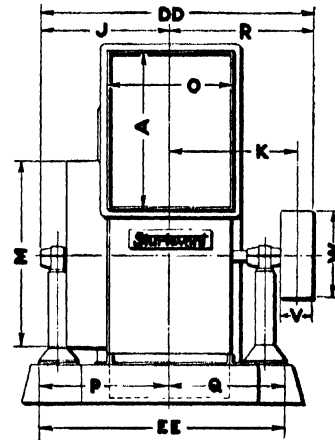
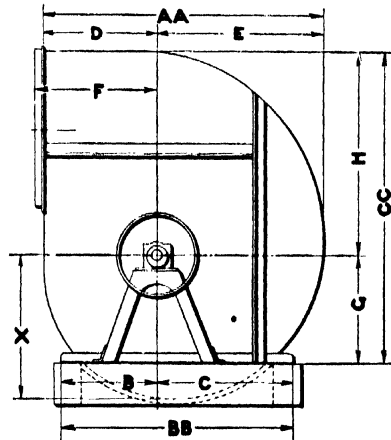
## Multivane Fan—Design 2

Single Width

 $\frac{7}{8}$  Housing

Top Horizontal Discharge

Overhung Pulley



| Fan Size | A                 | B                | C                 | D                | E                 | F                | G                | H                 | J                 | K                | M                 | O                | P                | Q                | R                | V                | W  | X                 | AA                | BB                | CC                | DD                | EE                | Extreme Wheel Diameter | Shaft Dia.      | An. Bolts       |                 |
|----------|-------------------|------------------|-------------------|------------------|-------------------|------------------|------------------|-------------------|-------------------|------------------|-------------------|------------------|------------------|------------------|------------------|------------------|----|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------------------------|-----------------|-----------------|-----------------|
|          |                   |                  |                   |                  |                   |                  |                  |                   |                   |                  |                   |                  |                  |                  |                  |                  |    |                   |                   |                   |                   |                   |                   |                        |                 |                 |                 |
| 10       | 40                | 25 $\frac{1}{2}$ | 36                | 30 $\frac{1}{2}$ | 45                | 32 $\frac{1}{2}$ | 29 $\frac{1}{2}$ | 52 $\frac{1}{2}$  | 38 $\frac{1}{2}$  | 35 $\frac{1}{2}$ | 48 $\frac{1}{2}$  | 32 $\frac{1}{2}$ | 35 $\frac{1}{2}$ | 30 $\frac{1}{2}$ | 40 $\frac{1}{2}$ | 10 $\frac{1}{2}$ | 20 | 37 $\frac{1}{2}$  | 75 $\frac{1}{2}$  | 61 $\frac{1}{2}$  | 81 $\frac{1}{2}$  | 79 $\frac{1}{2}$  | 65 $\frac{1}{2}$  | 46 $\frac{1}{2}$       | 2 $\frac{1}{2}$ | 1               | $\frac{3}{8}$   |
| 11       | 45                | 28 $\frac{1}{2}$ | 40 $\frac{1}{2}$  | 34 $\frac{1}{2}$ | 50 $\frac{1}{2}$  | 36 $\frac{1}{2}$ | 32 $\frac{1}{2}$ | 58 $\frac{1}{2}$  | 42 $\frac{1}{2}$  | 38 $\frac{1}{2}$ | 54 $\frac{1}{2}$  | 36 $\frac{1}{2}$ | 39 $\frac{1}{2}$ | 33 $\frac{1}{2}$ | 44 $\frac{1}{2}$ | 12               | 22 | 42 $\frac{1}{2}$  | 85                | 69                | 90 $\frac{1}{2}$  | 87 $\frac{1}{2}$  | 72 $\frac{1}{2}$  | 52 $\frac{1}{2}$       | 2 $\frac{1}{2}$ | 1               | $\frac{3}{8}$   |
| 12       | 49 $\frac{1}{2}$  | 32 $\frac{1}{2}$ | 45 $\frac{1}{2}$  | 38 $\frac{1}{2}$ | 56 $\frac{1}{2}$  | 40 $\frac{1}{2}$ | 36 $\frac{1}{2}$ | 65 $\frac{1}{2}$  | 46 $\frac{1}{2}$  | 43 $\frac{1}{2}$ | 60 $\frac{1}{2}$  | 40 $\frac{1}{2}$ | 43 $\frac{1}{2}$ | 38 $\frac{1}{2}$ | 49 $\frac{1}{2}$ | 12               | 24 | 47 $\frac{1}{2}$  | 94 $\frac{1}{2}$  | 78                | 101 $\frac{1}{2}$ | 95 $\frac{1}{2}$  | 81 $\frac{1}{2}$  | 58 $\frac{1}{2}$       | 2 $\frac{1}{2}$ | 1               | $\frac{3}{8}$   |
| 13       | 54 $\frac{1}{2}$  | 35 $\frac{1}{2}$ | 49 $\frac{1}{2}$  | 42               | 61 $\frac{1}{2}$  | 44 $\frac{1}{2}$ | 39 $\frac{1}{2}$ | 71 $\frac{1}{2}$  | 51                | 46 $\frac{1}{2}$ | 66 $\frac{1}{2}$  | 44 $\frac{1}{2}$ | 47 $\frac{1}{2}$ | 41 $\frac{1}{2}$ | 53 $\frac{1}{2}$ | 13 $\frac{1}{2}$ | 28 | 51 $\frac{1}{2}$  | 103 $\frac{1}{2}$ | 85                | 111 $\frac{1}{2}$ | 104 $\frac{1}{2}$ | 89 $\frac{1}{2}$  | 64                     | 3 $\frac{1}{8}$ | 1               | $\frac{3}{8}$   |
| 14       | 59 $\frac{1}{2}$  | 38 $\frac{1}{2}$ | 53 $\frac{1}{2}$  | 45 $\frac{1}{2}$ | 67 $\frac{1}{2}$  | 48 $\frac{1}{2}$ | 42 $\frac{1}{2}$ | 78 $\frac{1}{2}$  | 54 $\frac{1}{2}$  | 49 $\frac{1}{2}$ | 72 $\frac{1}{2}$  | 48 $\frac{1}{2}$ | 51 $\frac{1}{2}$ | 44 $\frac{1}{2}$ | 56 $\frac{1}{2}$ | 13 $\frac{1}{2}$ | 32 | 56 $\frac{1}{2}$  | 113 $\frac{1}{2}$ | 92                | 121 $\frac{1}{2}$ | 110 $\frac{1}{2}$ | 96                | 69 $\frac{1}{2}$       | 3 $\frac{1}{8}$ | 1               | $\frac{3}{8}$   |
| 15       | 61 $\frac{1}{2}$  | 42 $\frac{1}{2}$ | 59 $\frac{1}{2}$  | 49 $\frac{1}{2}$ | 73 $\frac{1}{2}$  | 52 $\frac{1}{2}$ | 45 $\frac{1}{2}$ | 84 $\frac{1}{2}$  | 59 $\frac{1}{2}$  | 54 $\frac{1}{2}$ | 78 $\frac{1}{2}$  | 52 $\frac{1}{2}$ | 56 $\frac{1}{2}$ | 49 $\frac{1}{2}$ | 62 $\frac{1}{2}$ | 14 $\frac{1}{2}$ | 36 | 61 $\frac{1}{2}$  | 122 $\frac{1}{2}$ | 102               | 130 $\frac{1}{2}$ | 121 $\frac{1}{2}$ | 105 $\frac{1}{2}$ | 75 $\frac{1}{2}$       | 3 $\frac{1}{8}$ | 1               | $\frac{3}{8}$   |
| 16       | 69 $\frac{1}{2}$  | 45               | 63 $\frac{1}{2}$  | 53 $\frac{1}{2}$ | 78 $\frac{1}{2}$  | 55 $\frac{1}{2}$ | 48 $\frac{1}{2}$ | 91 $\frac{1}{2}$  | 64 $\frac{1}{2}$  | 58 $\frac{1}{2}$ | 85                | 56 $\frac{1}{2}$ | 60 $\frac{1}{2}$ | 52 $\frac{1}{2}$ | 65 $\frac{1}{2}$ | 14 $\frac{1}{2}$ | 42 | 66                | 132               | 108 $\frac{1}{2}$ | 140 $\frac{1}{2}$ | 130 $\frac{1}{2}$ | 112 $\frac{1}{2}$ | 81 $\frac{1}{2}$       | 4 $\frac{1}{8}$ | 1 $\frac{1}{2}$ | $\frac{3}{8}$   |
| 17       | 74 $\frac{1}{2}$  | 48               | 67 $\frac{1}{2}$  | 57 $\frac{1}{2}$ | 84 $\frac{1}{2}$  | 60 $\frac{1}{2}$ | 52 $\frac{1}{2}$ | 97 $\frac{1}{2}$  | 69 $\frac{1}{2}$  | 62               | 91                | 60 $\frac{1}{2}$ | 64 $\frac{1}{2}$ | 55 $\frac{1}{2}$ | 69 $\frac{1}{2}$ | 14 $\frac{1}{2}$ | 48 | 70 $\frac{1}{2}$  | 141 $\frac{1}{2}$ | 115 $\frac{1}{2}$ | 149 $\frac{1}{2}$ | 138 $\frac{1}{2}$ | 120 $\frac{1}{2}$ | 87 $\frac{1}{2}$       | 5               | 1 $\frac{1}{2}$ | 1               |
| 18       | 79 $\frac{1}{2}$  | 50 $\frac{1}{2}$ | 71 $\frac{1}{2}$  | 60 $\frac{1}{2}$ | 89 $\frac{1}{2}$  | 64 $\frac{1}{2}$ | 55 $\frac{1}{2}$ | 104 $\frac{1}{2}$ | 80 $\frac{1}{2}$  |                  | 97 $\frac{1}{2}$  | 64 $\frac{1}{2}$ | 78 $\frac{1}{2}$ | 64 $\frac{1}{2}$ |                  |                  |    | 75 $\frac{1}{2}$  | 150 $\frac{1}{2}$ | 122 $\frac{1}{2}$ | 159 $\frac{1}{2}$ |                   | 142 $\frac{1}{2}$ | 93 $\frac{1}{2}$       | 5 $\frac{1}{2}$ | 1 $\frac{1}{2}$ | 1               |
| 20       | 89 $\frac{1}{2}$  | 56 $\frac{1}{2}$ | 80 $\frac{1}{2}$  | 68 $\frac{1}{2}$ | 101               | 72               | 61 $\frac{1}{2}$ | 117 $\frac{1}{2}$ | 88                |                  | 109 $\frac{1}{2}$ | 72 $\frac{1}{2}$ | 86 $\frac{1}{2}$ | 70 $\frac{1}{2}$ |                  |                  |    | 84 $\frac{1}{2}$  | 169 $\frac{1}{2}$ | 137               | 178 $\frac{1}{2}$ |                   | 156 $\frac{1}{2}$ | 105                    | 6               | 1 $\frac{1}{2}$ | 1               |
| 22       | 98 $\frac{1}{2}$  | 62 $\frac{1}{2}$ | 88 $\frac{1}{2}$  | 76 $\frac{1}{2}$ | 112 $\frac{1}{2}$ | 79 $\frac{1}{2}$ | 68               | 130 $\frac{1}{2}$ | 94 $\frac{1}{2}$  |                  | 121 $\frac{1}{2}$ | 80 $\frac{1}{2}$ | 94               | 76 $\frac{1}{2}$ |                  |                  |    | 94 $\frac{1}{2}$  | 188 $\frac{1}{2}$ | 150 $\frac{1}{2}$ | 198 $\frac{1}{2}$ |                   | 170 $\frac{1}{2}$ | 116 $\frac{1}{2}$      | 6 $\frac{1}{2}$ | 1 $\frac{1}{2}$ | 1               |
| 24       | 108 $\frac{1}{2}$ | 68               | 96 $\frac{1}{2}$  | 83 $\frac{1}{2}$ | 123 $\frac{1}{2}$ | 88 $\frac{1}{2}$ | 74               | 143 $\frac{1}{2}$ | 101 $\frac{1}{2}$ |                  | 133 $\frac{1}{2}$ | 89               | 102              | 82 $\frac{1}{2}$ |                  |                  |    | 103 $\frac{1}{2}$ | 207 $\frac{1}{2}$ | 164 $\frac{1}{2}$ | 217 $\frac{1}{2}$ |                   | 184 $\frac{1}{2}$ | 128                    | 7 $\frac{1}{2}$ | 1 $\frac{1}{2}$ | 1 $\frac{1}{2}$ |
| 26       | 118 $\frac{1}{2}$ | 73 $\frac{1}{2}$ | 105 $\frac{1}{2}$ | 91 $\frac{1}{2}$ | 134 $\frac{1}{2}$ | 95 $\frac{1}{2}$ | 80               | 156 $\frac{1}{2}$ | 107 $\frac{1}{2}$ |                  | 145 $\frac{1}{2}$ | 97               | 109              | 88 $\frac{1}{2}$ |                  |                  |    | 113               | 226               | 179               | 236 $\frac{1}{2}$ |                   | 197 $\frac{1}{2}$ | 140                    | 8               | 1 $\frac{1}{2}$ | 1 $\frac{1}{2}$ |

Double Inlet

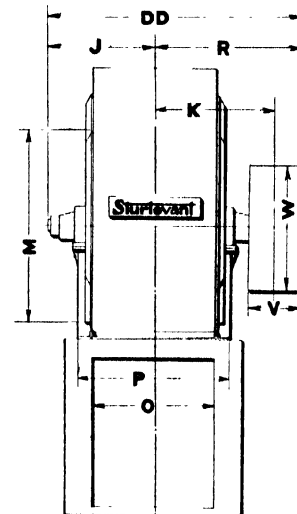
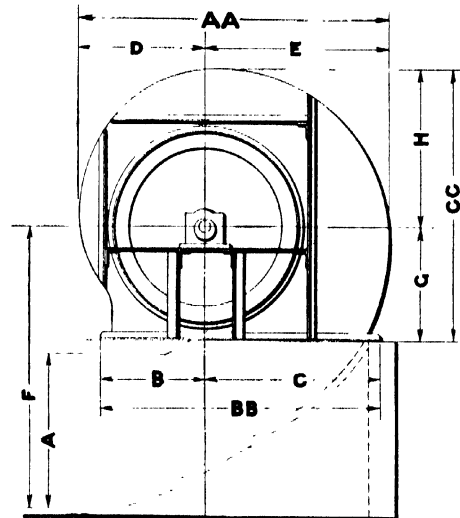
**Multivane Fan—Design 2**

Single Width

 $\frac{7}{8}$  Housing

Bottom Horizontal Discharge

Overhung Pulley



| Fan Size | A   | B  | C   | D  | E   | F   | G  | H   | J  | K  | M   | O  | P   | R  | V  | W  | AA  | BB  | CC  | DD  | Extreme Wheel Diameter | Shaft Dia. | Anchor Bolts |       |
|----------|-----|----|-----|----|-----|-----|----|-----|----|----|-----|----|-----|----|----|----|-----|-----|-----|-----|------------------------|------------|--------------|-------|
|          |     |    |     |    |     |     |    |     |    |    |     |    |     |    |    |    |     |     |     |     |                        |            | Pedestal     | Fan   |
| 10       | 39  | 27 | 45  | 32 | 47  | 72  | 29 | 40  | 27 | 29 | 48  | 32 | 39  | 34 | 10 | 20 | 80  | 73  | 69  | 61  | 46                     | 2 1/8      |              | 7/8   |
| 11       | 41  | 30 | 51  | 37 | 53  | 80  | 32 | 45  | 30 | 32 | 54  | 36 | 43  | 38 | 12 | 22 | 90  | 81  | 77  | 68  | 52                     | 2 1/8      |              | 7/8   |
| 12       | 49  | 35 | 57  | 41 | 59  | 90  | 36 | 50  | 32 | 34 | 60  | 40 | 50  | 40 | 12 | 24 | 100 | 92  | 86  | 72  | 58                     | 2 1/8      |              | 7/8   |
| 13       | 51  | 38 | 62  | 45 | 65  | 98  | 39 | 55  | 35 | 37 | 66  | 44 | 54  | 44 | 13 | 28 | 110 | 100 | 95  | 79  | 64                     | 3 1/8      |              | 7/8   |
| 14       | 59  | 42 | 68  | 49 | 71  | 106 | 42 | 60  | 37 | 39 | 72  | 48 | 58  | 46 | 13 | 32 | 120 | 110 | 103 | 83  | 69                     | 3 1/8      |              | 7/8   |
| 15       | 61  | 45 | 75  | 53 | 77  | 113 | 45 | 65  | 41 | 43 | 78  | 52 | 64  | 51 | 14 | 36 | 130 | 117 | 111 | 92  | 75                     | 3 1/8      |              | 7/8   |
| 16       | 69  | 47 | 80  | 57 | 82  | 121 | 48 | 70  | 44 | 46 | 84  | 56 | 68  | 54 | 14 | 42 | 140 | 127 | 119 | 98  | 81                     | 4 1/8      |              | 7/8   |
| 17       | 73  | 51 | 85  | 61 | 88  | 130 | 52 | 75  | 48 | 50 | 90  | 60 | 72  | 57 | 14 | 48 | 150 | 136 | 127 | 105 | 87                     | 5          |              | 1     |
| 18       | 78  | 59 | 90  | 65 | 94  | 137 | 55 | 80  | 58 |    | 96  | 64 | 111 |    |    |    | 160 | 150 | 135 |     | 93                     | 5 1/2      | 1 1/4        | 1     |
| 20       | 88  | 66 | 101 | 74 | 106 | 153 | 61 | 90  | 63 |    | 109 | 72 | 121 |    |    |    | 180 | 167 | 151 |     | 105                    | 6          | 1 1/4        | 1     |
| 22       | 98  | 73 | 111 | 82 | 118 | 170 | 68 | 100 | 67 |    | 121 | 80 | 131 |    |    |    | 200 | 184 | 168 |     | 116                    | 6          | 1 1/4        | 1     |
| 24       | 108 | 79 | 122 | 90 | 130 | 186 | 74 | 110 | 71 |    | 133 | 88 | 141 |    |    |    | 220 | 201 | 184 |     | 128                    | 6          | 1 1/4        | 1 1/2 |
| 26       | 117 | 86 | 133 | 98 | 141 | 201 | 80 | 120 | 75 |    | 145 | 96 | 151 |    |    |    | 240 | 219 | 200 |     | 140                    | 6          | 1 1/4        | 1 1/2 |

Double Inlet

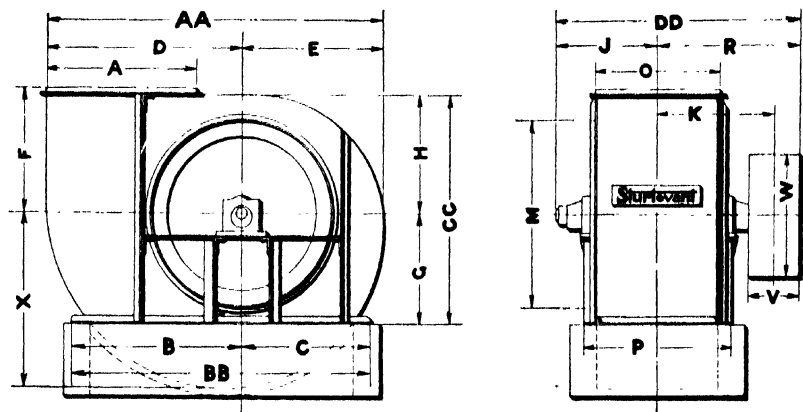
## Multivane Fan—Design 2

Single Width

 $\frac{7}{8}$  Housing

Up Blast Discharge

Overhung Pulley



| Fan Size | A                 | B                 | C                 | D                 | E                 | F                | G                | H                | J                | K                | M                 | O                | P                 | R                | V                | W  | X                 | AA                | BB                | CC                | DD                | Extreme Wheel Diameter | Shaft Dia.      | Anchor Bolts    |                 |
|----------|-------------------|-------------------|-------------------|-------------------|-------------------|------------------|------------------|------------------|------------------|------------------|-------------------|------------------|-------------------|------------------|------------------|----|-------------------|-------------------|-------------------|-------------------|-------------------|------------------------|-----------------|-----------------|-----------------|
|          |                   |                   |                   |                   |                   |                  |                  |                  |                  |                  |                   |                  |                   |                  |                  |    |                   |                   |                   |                   |                   |                        |                 | Ped.            | Fan             |
| 10       | 40                | 45 $\frac{1}{4}$  | 34 $\frac{1}{2}$  | 52 $\frac{1}{4}$  | 37 $\frac{1}{2}$  | 32 $\frac{1}{2}$ | 29 $\frac{1}{2}$ | 30 $\frac{1}{2}$ | 27 $\frac{1}{2}$ | 29               | 48 $\frac{1}{2}$  | 32 $\frac{1}{2}$ | 39 $\frac{1}{2}$  | 34 $\frac{1}{2}$ | 10 $\frac{1}{2}$ | 20 | 45                | 90                | 80 $\frac{1}{2}$  | 59 $\frac{1}{2}$  | 61 $\frac{1}{2}$  | 46 $\frac{1}{2}$       | 2 $\frac{1}{2}$ |                 | 1               |
| 11       | 45                | 51                | 38 $\frac{1}{2}$  | 58 $\frac{1}{2}$  | 42 $\frac{1}{2}$  | 36 $\frac{1}{2}$ | 32 $\frac{1}{2}$ | 34 $\frac{1}{2}$ | 30               | 32               | 54 $\frac{1}{2}$  | 36 $\frac{1}{2}$ | 43 $\frac{1}{2}$  | 38               | 12               | 22 | 50 $\frac{1}{2}$  | 101 $\frac{1}{2}$ | 89 $\frac{1}{2}$  | 66 $\frac{1}{2}$  | 68                | 52 $\frac{1}{2}$       | 2 $\frac{1}{2}$ |                 | 1               |
| 12       | 49 $\frac{1}{2}$  | 57 $\frac{1}{2}$  | 43 $\frac{1}{2}$  | 65 $\frac{1}{2}$  | 47 $\frac{1}{2}$  | 40 $\frac{1}{2}$ | 36 $\frac{1}{2}$ | 38 $\frac{1}{2}$ | 32               | 34               | 60 $\frac{1}{2}$  | 40 $\frac{1}{2}$ | 50 $\frac{1}{2}$  | 40               | 12               | 24 | 56 $\frac{1}{2}$  | 112 $\frac{1}{2}$ | 101 $\frac{1}{2}$ | 74 $\frac{1}{2}$  | 72                | 58 $\frac{1}{2}$       | 2 $\frac{1}{2}$ |                 | 1               |
| 13       | 54 $\frac{1}{2}$  | 62 $\frac{1}{2}$  | 47 $\frac{1}{2}$  | 71 $\frac{1}{2}$  | 51 $\frac{1}{2}$  | 44 $\frac{1}{2}$ | 39 $\frac{1}{2}$ | 42               | 35 $\frac{1}{2}$ | 37 $\frac{1}{2}$ | 66 $\frac{1}{2}$  | 44 $\frac{1}{2}$ | 54 $\frac{1}{2}$  | 44 $\frac{1}{2}$ | 13 $\frac{1}{2}$ | 28 | 61 $\frac{1}{2}$  | 123 $\frac{1}{2}$ | 110 $\frac{1}{2}$ | 81 $\frac{1}{2}$  | 79 $\frac{1}{2}$  | 64                     | 3 $\frac{1}{4}$ |                 | 1               |
| 14       | 59 $\frac{1}{2}$  | 68 $\frac{1}{2}$  | 51 $\frac{1}{2}$  | 78 $\frac{1}{2}$  | 56 $\frac{1}{2}$  | 48 $\frac{1}{2}$ | 42 $\frac{1}{2}$ | 45 $\frac{1}{2}$ | 37 $\frac{1}{2}$ | 39 $\frac{1}{2}$ | 72 $\frac{1}{2}$  | 48 $\frac{1}{2}$ | 58 $\frac{1}{2}$  | 46 $\frac{1}{2}$ | 13 $\frac{1}{2}$ | 32 | 67 $\frac{1}{2}$  | 135               | 120 $\frac{1}{2}$ | 88 $\frac{1}{2}$  | 83 $\frac{1}{2}$  | 69 $\frac{1}{2}$       | 3 $\frac{1}{2}$ |                 | 1               |
| 15       | 64 $\frac{1}{2}$  | 75                | 57 $\frac{1}{2}$  | 84 $\frac{1}{2}$  | 61 $\frac{1}{2}$  | 52 $\frac{1}{2}$ | 45 $\frac{1}{2}$ | 49 $\frac{1}{2}$ | 41 $\frac{1}{2}$ | 43 $\frac{1}{2}$ | 78 $\frac{1}{2}$  | 52 $\frac{1}{2}$ | 64 $\frac{1}{2}$  | 51               | 14 $\frac{1}{2}$ | 36 | 73 $\frac{1}{2}$  | 146 $\frac{1}{2}$ | 132 $\frac{1}{2}$ | 95 $\frac{1}{2}$  | 92 $\frac{1}{2}$  | 75 $\frac{1}{2}$       | 3 $\frac{1}{2}$ |                 | 1               |
| 16       | 69 $\frac{1}{2}$  | 80 $\frac{1}{2}$  | 60 $\frac{1}{2}$  | 91 $\frac{1}{2}$  | 66                | 55 $\frac{1}{2}$ | 48 $\frac{1}{2}$ | 53 $\frac{1}{2}$ | 44 $\frac{1}{2}$ | 46 $\frac{1}{2}$ | 84 $\frac{1}{2}$  | 56 $\frac{1}{2}$ | 68 $\frac{1}{2}$  | 54               | 14 $\frac{1}{2}$ | 42 | 78 $\frac{1}{2}$  | 157 $\frac{1}{2}$ | 141               | 102 $\frac{1}{2}$ | 98 $\frac{1}{2}$  | 81 $\frac{1}{2}$       | 4 $\frac{1}{2}$ |                 | 1               |
| 17       | 74 $\frac{1}{2}$  | 85 $\frac{1}{2}$  | 64 $\frac{1}{2}$  | 97 $\frac{1}{2}$  | 70 $\frac{1}{2}$  | 60 $\frac{1}{2}$ | 52 $\frac{1}{2}$ | 57 $\frac{1}{2}$ | 48 $\frac{1}{2}$ | 50 $\frac{1}{2}$ | 90 $\frac{1}{2}$  | 60 $\frac{1}{2}$ | 72 $\frac{1}{2}$  | 57 $\frac{1}{2}$ | 14 $\frac{1}{2}$ | 48 | 84 $\frac{1}{2}$  | 168 $\frac{1}{2}$ | 150 $\frac{1}{2}$ | 109 $\frac{1}{2}$ | 105 $\frac{1}{2}$ | 87 $\frac{1}{2}$       | 5               |                 | 1               |
| *18      | 79 $\frac{1}{2}$  | 90 $\frac{1}{2}$  | 68 $\frac{1}{2}$  | 104 $\frac{1}{2}$ | 75 $\frac{1}{2}$  | 64 $\frac{1}{2}$ | 55 $\frac{1}{2}$ | 60 $\frac{1}{2}$ | 59 $\frac{1}{2}$ |                  | 96 $\frac{1}{2}$  | 64 $\frac{1}{2}$ | 111 $\frac{1}{2}$ |                  |                  |    | 89 $\frac{1}{2}$  | 179 $\frac{1}{2}$ | 159 $\frac{1}{2}$ | 116 $\frac{1}{2}$ |                   | 93 $\frac{1}{2}$       | 5 $\frac{1}{2}$ | 1 $\frac{1}{2}$ | 1               |
| *20      | 89 $\frac{1}{2}$  | 101 $\frac{1}{2}$ | 76 $\frac{1}{2}$  | 117 $\frac{1}{2}$ | 84 $\frac{1}{2}$  | 72               | 61 $\frac{1}{2}$ | 68 $\frac{1}{2}$ | 63 $\frac{1}{2}$ |                  | 109               | 72 $\frac{1}{2}$ | 121 $\frac{1}{2}$ |                  |                  |    | 101               | 202               | 178 $\frac{1}{2}$ | 129 $\frac{1}{2}$ |                   | 105                    | 6               | 1 $\frac{1}{2}$ | 1               |
| *22      | 98 $\frac{1}{2}$  | 111 $\frac{1}{2}$ | 84 $\frac{1}{2}$  | 130 $\frac{1}{2}$ | 94 $\frac{1}{2}$  | 79 $\frac{1}{2}$ | 68               | 76 $\frac{1}{2}$ | 67 $\frac{1}{2}$ |                  | 121 $\frac{1}{2}$ | 80 $\frac{1}{2}$ | 131 $\frac{1}{2}$ |                  |                  |    | 112 $\frac{1}{2}$ | 224 $\frac{1}{2}$ | 196 $\frac{1}{2}$ | 144 $\frac{1}{2}$ |                   | 116 $\frac{1}{2}$      | 6               | 1 $\frac{1}{2}$ | 1               |
| *24      | 108 $\frac{1}{2}$ | 122 $\frac{1}{2}$ | 92 $\frac{1}{2}$  | 143 $\frac{1}{2}$ | 103 $\frac{1}{2}$ | 88 $\frac{1}{2}$ | 74               | 83 $\frac{1}{2}$ | 71 $\frac{1}{2}$ |                  | 133 $\frac{1}{2}$ | 89               | 141 $\frac{1}{2}$ |                  |                  |    | 123 $\frac{1}{2}$ | 247               | 215 $\frac{1}{2}$ | 157 $\frac{1}{2}$ |                   | 128                    | 6               | 1 $\frac{1}{2}$ | 1 $\frac{1}{2}$ |
| *26      | 118 $\frac{1}{2}$ | 133 $\frac{1}{2}$ | 100 $\frac{1}{2}$ | 156 $\frac{1}{2}$ | 113               | 95 $\frac{1}{2}$ | 80               | 91 $\frac{1}{2}$ | 75 $\frac{1}{2}$ |                  | 145 $\frac{1}{2}$ | 97               | 151 $\frac{1}{2}$ |                  |                  |    | 134 $\frac{1}{2}$ | 269 $\frac{1}{2}$ | 234               | 171 $\frac{1}{2}$ |                   | 140                    | 6               | 1 $\frac{1}{2}$ | 1 $\frac{1}{2}$ |

\*Sizes 18-26 have bearing pedestals against fan housing



Double Inlet

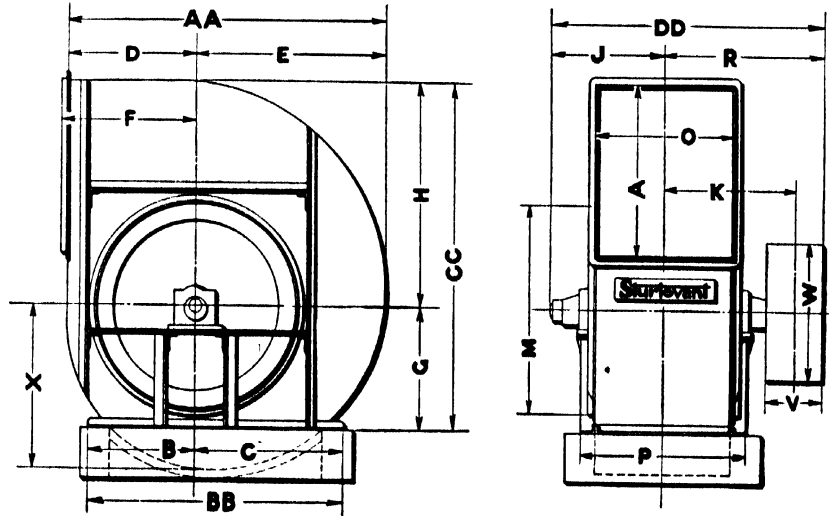
## Multivane Fan—Design 2

Single Width

 $\frac{7}{8}$  Housing

Top Horizontal Discharge

Overhung Pulley



| Fan Size | A    | B   | C    | D   | E    | F   | G   | H    | J   | K   | M    | O   | P    | R   | V   | W  | X    | AA   | BB   | CC   | DD   | Extreme Wheel Diameter | Shaft Diameter | Anchor Bolts Pedestal | Anchor Bolts Fan |
|----------|------|-----|------|-----|------|-----|-----|------|-----|-----|------|-----|------|-----|-----|----|------|------|------|------|------|------------------------|----------------|-----------------------|------------------|
| 10       | 40   | 25½ | 36   | 30½ | 45   | 32½ | 29½ | 52½  | 27½ | 29  | 48½  | 32½ | 39½  | 34½ | 10½ | 20 | 37½  | 75½  | 61½  | 81½  | 61½  | 46½                    | 2½             |                       | 1                |
| 11       | 45   | 28½ | 40½  | 34½ | 50½  | 36½ | 32½ | 58½  | 30  | 32  | 54½  | 36½ | 43½  | 38  | 12  | 22 | 42½  | 85   | 69   | 90½  | 68   | 52½                    | 2½             |                       | 1                |
| 12       | 49½  | 32½ | 45½  | 38½ | 56½  | 40½ | 36½ | 65½  | 32  | 34  | 60½  | 40½ | 50½  | 40  | 12  | 24 | 47½  | 94½  | 78   | 101½ | 72   | 58½                    | 2½             |                       | 1                |
| 13       | 54½  | 35½ | 49½  | 42  | 61½  | 44½ | 39½ | 71½  | 35½ | 37½ | 66½  | 44½ | 54½  | 44½ | 13½ | 28 | 51½  | 103½ | 85   | 111½ | 79½  | 64                     | 3½             |                       | 1                |
| 14       | 59½  | 38½ | 53½  | 45½ | 67½  | 48½ | 42½ | 78½  | 37½ | 39½ | 72½  | 48½ | 58½  | 46½ | 13½ | 32 | 56½  | 113½ | 92   | 121½ | 83½  | 69½                    | 3½             |                       | 1                |
| 15       | 64½  | 42½ | 59½  | 49½ | 73½  | 52½ | 45½ | 84½  | 41½ | 43½ | 78½  | 52½ | 64½  | 51  | 14½ | 36 | 61½  | 122½ | 102  | 130½ | 92½  | 75½                    | 3½             |                       | 1                |
| 16       | 69½  | 45  | 63½  | 53½ | 78½  | 55½ | 48½ | 91½  | 44½ | 46½ | 84½  | 56½ | 68½  | 54  | 14½ | 42 | 66   | 132  | 108½ | 140½ | 98½  | 81½                    | 4½             |                       | 1                |
| 17       | 74½  | 48  | 67½  | 57½ | 84½  | 60½ | 52½ | 97½  | 48½ | 50½ | 90½  | 60½ | 72½  | 57½ | 14½ | 48 | 70½  | 141½ | 115½ | 149½ | 105½ | 87½                    | 5              |                       | 1                |
| 18       | 79½  | 50½ | 71½  | 60½ | 89½  | 64½ | 55½ | 104½ | 58½ |     | 96½  | 64½ | 111½ |     |     |    | 75½  | 150½ | 122½ | 159½ |      | 93½                    | 5½             | 1½                    | 1                |
| 20       | 89½  | 56½ | 80½  | 68½ | 101  | 72  | 61½ | 117½ | 63½ |     | 109  | 72½ | 121½ |     |     |    | 84½  | 169½ | 137  | 178½ |      | 105                    | 6              | 1½                    | 1                |
| 22       | 98½  | 62½ | 88½  | 76½ | 112½ | 79½ | 68  | 130½ | 67½ |     | 121½ | 80½ | 131½ |     |     |    | 94½  | 188½ | 150½ | 198½ |      | 116½                   | 6              | 1½                    | 1                |
| 24       | 108½ | 68  | 96½  | 83½ | 123½ | 88½ | 74  | 143½ | 71½ |     | 133½ | 89  | 141½ |     |     |    | 103½ | 207½ | 164½ | 217½ |      | 128                    | 6              | 1½                    | 1½               |
| 26       | 118½ | 73½ | 105½ | 91½ | 134½ | 95½ | 80  | 156½ | 75½ |     | 145½ | 97  | 151½ |     |     |    | 113  | 226  | 179  | 236½ |      | 140                    | 6              | 1½                    | 1½               |

Double Inlet

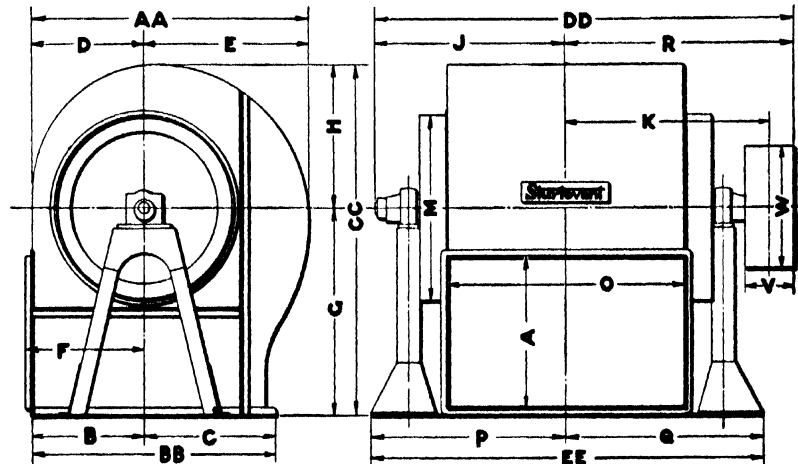
## Multivane Fan—Design 2

Double Width

Full Housing

Bottom Horizontal Discharge

Overhung Pulley



|    | Fan Size | A   | B   | C   | D   | E   | F    | G      | H    | J   | K   | M    | O   | P   | Q    | R   | V  | W    | AA   | BB     | CC   | DD   | EE  | Ex. Wh' Dia. | Shaft Dia. | An. Bolts |  |
|----|----------|-----|-----|-----|-----|-----|------|--------|------|-----|-----|------|-----|-----|------|-----|----|------|------|--------|------|------|-----|--------------|------------|-----------|--|
| 2  | 10½      | 7½  | 10  | 7½  | 11½ | 9   | 15   | 9 7/8  | 17   | 17½ | 12½ | 16½  | 15½ | 15½ | 18½  | 3½  | 7  | 19½  | 17½  | 24 1/4 | 35½  | 31½  | 11½ | 1½           |            |           |  |
| 3  | 12½      | 9½  | 12  | 9½  | 14½ | 10½ | 18½  | 11½    | 19½  | 20½ | 15½ | 20½  | 19  | 19  | 22½  | 4   | 8½ | 23½  | 21½  | 30½    | 42½  | 38½  | 14½ | 1½           |            |           |  |
| 4  | 15½      | 11½ | 15  | 11½ | 17½ | 12½ | 22½  | 14½    | 22½  | 23½ | 18½ | 24½  | 22½ | 22½ | 26   | 5   | 11 | 28½  | 26½  | 36½    | 48½  | 44½  | 17½ | 1½           |            |           |  |
| 5  | 17½      | 13½ | 17½ | 13½ | 19½ | 14½ | 25½  | 16½    | 26   | 27½ | 21½ | 28½  | 25½ | 25½ | 30½  | 6½  | 12 | 33½  | 30½  | 41½    | 56½  | 51½  | 20½ | 1½           |            |           |  |
| 6  | 20½      | 15½ | 19½ | 15½ | 22½ | 16½ | 30   | 19     | 29½  | 30½ | 24½ | 32½  | 29½ | 29½ | 33½  | 6½  | 14 | 38   | 34½  | 49     | 63   | 58½  | 23½ | 1½           |            |           |  |
| 6½ | 22½      | 17½ | 21½ | 17½ | 25½ | 19½ | 32½  | 21 1/4 | 32½  | 33½ | 27½ | 36½  | 33½ | 33½ | 37   | 7   | 16 | 42½  | 38½  | 54 1/4 | 69½  | 66½  | 26½ | 2½           |            |           |  |
| 7  | 25½      | 19½ | 23½ | 19½ | 28½ | 21½ | 35½  | 23½    | 35½  | 36½ | 30½ | 40½  | 35½ | 35½ | 40½  | 8   | 18 | 47½  | 42½  | 59½    | 75½  | 71½  | 29½ | 2½           |            |           |  |
| 8  | 30½      | 23  | 27½ | 23  | 33½ | 25  | 41½  | 28½    | 41½  | 43  | 36½ | 48½  | 40½ | 40½ | 48   | 10  | 22 | 56½  | 50½  | 70½    | 89½  | 81½  | 35  | 2½           |            |           |  |
| 9  | 35½      | 26½ | 32½ | 26½ | 39½ | 28½ | 48½  | 33½    | 46½  | 49½ | 42½ | 56½  | 46½ | 46½ | 55½  | 12½ | 24 | 66½  | 59½  | 81½    | 102½ | 93½  | 40½ | 2½           |            |           |  |
| 10 | 40       | 30½ | 36½ | 30½ | 45  | 32½ | 55   | 37½    | 52½  | 55½ | 48½ | 64½  | 51½ | 51½ | 61½  | 13½ | 28 | 75½  | 67   | 92½    | 117  | 103½ | 46½ | 2½           | 1          |           |  |
| 11 | 45       | 34½ | 40½ | 34½ | 50½ | 36½ | 61½  | 42½    | 58½  | 61½ | 54½ | 72½  | 56½ | 56½ | 68½  | 14  | 32 | 85   | 74½  | 104    | 126½ | 113½ | 52½ | 3½           | 1          |           |  |
| 12 | 49½      | 38½ | 46  | 38½ | 56½ | 40½ | 69½  | 47½    | 65½  | 68½ | 60½ | 80½  | 63½ | 63½ | 76½  | 15½ | 36 | 94½  | 84½  | 116½   | 141½ | 126½ | 58½ | 3½           | 1          |           |  |
| 13 | 54½      | 42  | 51  | 42  | 61½ | 44½ | 75½  | 51½    | 70½  | 73½ | 66½ | 88½  | 68½ | 68½ | 81½  | 15½ | 40 | 103½ | 93   | 127½   | 152  | 136½ | 64  | 3½           | 1          |           |  |
| 14 | 59½      | 45½ | 55  | 45½ | 67½ | 48½ | 82½  | 56½    | 76½  | 79½ | 72½ | 96½  | 73½ | 73½ | 87½  | 16  | 42 | 113½ | 100½ | 139    | 164½ | 146½ | 69½ | 4½           | 1          |           |  |
| 15 | 64½      | 49½ | 60  | 49½ | 73½ | 52½ | 88½  | 61½    | 83½  | 86½ | 78½ | 104½ | 79½ | 79½ | 94½  | 16  | 46 | 122½ | 109½ | 150½   | 177½ | 158½ | 75½ | 5            | 1          |           |  |
| 16 | 69½      | 53½ | 64  | 53½ | 78½ | 55½ | 95½  | 66     | 96½  | 102 | 85  | 112½ | 94½ | 94½ | 110½ | 16½ | 48 | 132  | 117½ | 161½   | 207  | 188½ | 81½ | 5½           | 1½         |           |  |
| 17 | 74½      | 57½ | 68  | 57½ | 84½ | 60½ | 101½ | 70½    | 101½ | 108 | 91  | 120½ | 99  | 99  | 117½ | 19  | 52 | 141½ | 125½ | 172½   | 219½ | 198  | 87½ | 6            | 1½         | 1         |  |

Double Inlet

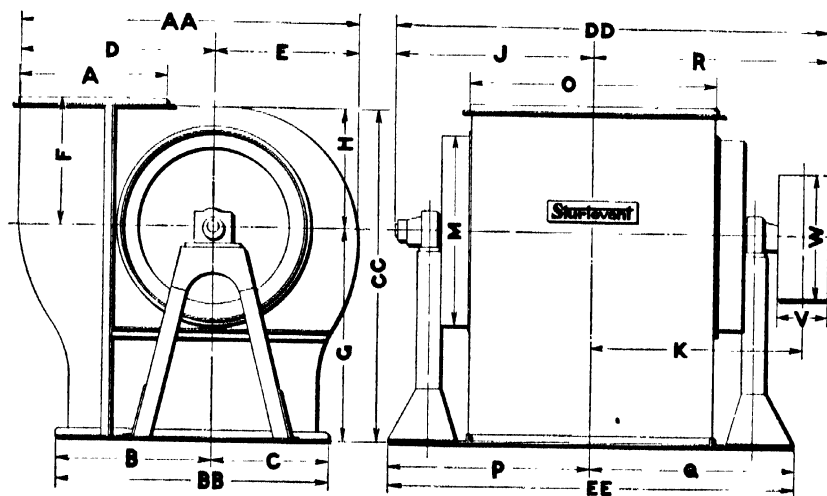
## Multivane Fan—Design 2

Double Width

Full Housing

Up Blast Discharge

Overhung Pulley



| Fan Size | A   | B   | C   | D   | E   | F   | G   | H   | J    | K   | M   | O    | P   | Q   | R    | V   | W  | AA   | BB  | CC   | DD   | EE   | Ex. Wheel Dia. | Shaft Dia. | Anchor Bolts |   |
|----------|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|------|-----|-----|------|-----|----|------|-----|------|------|------|----------------|------------|--------------|---|
| 2        | 10½ | 11  | 8½  | 13½ | 9½  | 9   | 15  | 7½  | 17   | 17½ | 12½ | 16½  | 15½ | 15½ | 18½  | 3½  | 7  | 22½  | 19½ | 22½  | 35½  | 31½  | 11½            | 1½         | 1            |   |
| 3        | 12½ | 14  | 11  | 16½ | 11½ | 10½ | 18½ | 9½  | 19½  | 20½ | 15½ | 20½  | 19½ | 19½ | 22½  | 4   | 8½ | 28½  | 25  | 28½  | 42½  | 38   | 14½            | 1½         | 1            |   |
| 4        | 15½ | 17  | 13  | 19½ | 14½ | 12½ | 22  | 11½ | 22½  | 23½ | 18½ | 24½  | 22½ | 22½ | 26   | 5   | 11 | 34½  | 30  | 33½  | 48½  | 44½  | 17½            | 1½         | 1            |   |
| 5        | 17½ | 19½ | 14½ | 23  | 16½ | 14½ | 25  | 13½ | 26   | 27½ | 21½ | 28½  | 25½ | 25½ | 30½  | 6½  | 12 | 39½  | 34  | 38½  | 56½  | 51   | 20½            | 1½         | 1            |   |
| 6        | 20½ | 21½ | 16½ | 26½ | 19  | 16½ | 30  | 15½ | 29½  | 30½ | 24½ | 32½  | 29½ | 29½ | 33½  | 6½  | 14 | 45½  | 38  | 45½  | 63   | 58½  | 23½            | 1½         | 1            |   |
| 6½       | 22½ | 24  | 18  | 29½ | 21½ | 19½ | 32½ | 17½ | 32½  | 33½ | 27½ | 36½  | 33½ | 33½ | 37   | 7   | 16 | 51   | 42  | 50½  | 69½  | 66½  | 26½            | 2½         | 1            |   |
| 7        | 25½ | 26½ | 19½ | 32½ | 23½ | 21½ | 35½ | 19½ | 35½  | 36½ | 30½ | 40½  | 35½ | 35½ | 40½  | 8   | 18 | 56½  | 46  | 54½  | 75½  | 71½  | 29½            | 2½         | 1            |   |
| 8        | 30½ | 31½ | 23½ | 39½ | 28½ | 25  | 41½ | 23  | 41½  | 43  | 36½ | 48½  | 40½ | 40½ | 48   | 10  | 22 | 67½  | 55  | 64½  | 89½  | 81½  | 35             | 2½         | 1            |   |
| 9        | 35½ | 37½ | 27½ | 45½ | 33½ | 28½ | 48½ | 26½ | 46½  | 49½ | 42½ | 56½  | 46½ | 46½ | 55½  | 12½ | 24 | 79   | 65  | 75½  | 102½ | 93½  | 40½            | 2½         | 1            |   |
| 10       | 40  | 42½ | 31½ | 52½ | 37½ | 32½ | 55  | 30½ | 52½  | 55½ | 48½ | 64½  | 51½ | 51½ | 61½  | 13½ | 28 | 90   | 74  | 85½  | 114½ | 103½ | 46½            | 2½         | 1            |   |
| 11       | 45  | 46½ | 34½ | 58½ | 42½ | 36½ | 61½ | 34½ | 58½  | 61½ | 54½ | 72½  | 56½ | 56½ | 68½  | 14  | 32 | 101½ | 81  | 95½  | 126½ | 113½ | 52½            | 3½         | 1            |   |
| 12       | 49½ | 53  | 40  | 65½ | 47½ | 40½ | 60½ | 38½ | 65½  | 68½ | 60½ | 80½  | 63½ | 63½ | 76½  | 15½ | 36 | 112½ | 93  | 98½  | 141½ | 126½ | 58½            | 3½         | 1            |   |
| 13       | 54½ | 58  | 43  | 71½ | 51½ | 44½ | 65½ | 42  | 70½  | 73½ | 66½ | 88½  | 68½ | 68½ | 81½  | 16  | 40 | 123½ | 101 | 107½ | 152  | 136½ | 64             | 3½         | 1            |   |
| 14       | 59½ | 63  | 47  | 78½ | 56½ | 48½ | 71½ | 45½ | 76½  | 79½ | 72½ | 96½  | 73½ | 73½ | 87½  | 16  | 42 | 135  | 110 | 117½ | 164½ | 146½ | 69½            | 4½         | 1            |   |
| 15       | 64½ | 69  | 51  | 84½ | 61½ | 52½ | 77½ | 49½ | 83½  | 86½ | 78½ | 104½ | 79½ | 79½ | 94½  | 16  | 46 | 146½ | 120 | 126½ | 177½ | 158½ | 75½            | 5          | 1            |   |
| 16       | 69½ | 73  | 55  | 91½ | 66  | 55½ | 82½ | 53½ | 86½  | 89½ | 81½ | 112½ | 84½ | 84½ | 110½ | 16½ | 48 | 157½ | 128 | 136  | 207  | 188½ | 81½            | 5½         | 1            |   |
| 17       | 74½ | 78  | 58  | 97½ | 70½ | 60½ | 88½ | 57½ | 101½ | 108 | 91  | 120½ | 99  | 99  | 117½ | 19  | 52 | 168½ | 136 | 145½ | 219½ | 198  | 87½            | 6          | 1½           | 1 |

Double Inlet

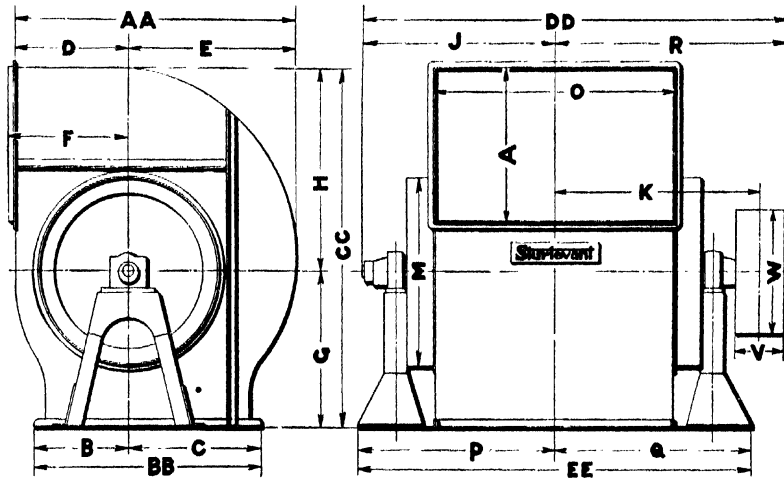
## Multivane Fan—Design 2

Double Width

Full Housing

Top Horizontal Discharge

Overhung Pulley



| Fan Size        | A                | B                | C                | D                | E                | F                | G                | H                | J                 | K                | M                | O                 | P                | Q                | R                 | V                | W                | AA                | BB               | CC                | DD                | EE                | Ex. Wheel Dia.   | Shaft Dia.      | Anchor Bolt Dia. | Fan |
|-----------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|------------------|------------------|-------------------|------------------|------------------|-------------------|------------------|------------------|-------------------|------------------|-------------------|-------------------|-------------------|------------------|-----------------|------------------|-----|
| 2               | 10 $\frac{1}{2}$ | 7                | 10               | 7 $\frac{1}{2}$  | 11 $\frac{1}{2}$ | 9                | 11               | 13 $\frac{1}{2}$ | 17                | 17 $\frac{1}{2}$ | 12 $\frac{1}{2}$ | 16 $\frac{1}{2}$  | 15 $\frac{1}{2}$ | 15 $\frac{1}{2}$ | 18 $\frac{1}{2}$  | 3 $\frac{1}{2}$  | 7                | 19 $\frac{1}{2}$  | 17               | 24 $\frac{1}{2}$  | 35 $\frac{1}{2}$  | 31 $\frac{1}{2}$  | 11 $\frac{1}{2}$ | 1 $\frac{1}{2}$ | 1 $\frac{1}{2}$  | 1   |
| 3               | 12 $\frac{1}{2}$ | 9                | 12               | 9 $\frac{1}{2}$  | 14 $\frac{1}{2}$ | 10 $\frac{1}{2}$ | 14               | 16 $\frac{1}{2}$ | 19 $\frac{1}{2}$  | 20 $\frac{1}{2}$ | 15 $\frac{1}{2}$ | 20 $\frac{1}{2}$  | 19               | 19               | 22 $\frac{1}{2}$  | 4                | 8 $\frac{1}{2}$  | 23 $\frac{1}{2}$  | 21               | 30 $\frac{1}{2}$  | 42 $\frac{1}{2}$  | 38                | 14 $\frac{1}{2}$ | 1 $\frac{1}{2}$ | 1 $\frac{1}{2}$  | 1   |
| 4               | 15 $\frac{1}{2}$ | 11               | 15               | 11 $\frac{1}{2}$ | 17 $\frac{1}{2}$ | 12 $\frac{1}{2}$ | 16 $\frac{1}{2}$ | 19 $\frac{1}{2}$ | 22 $\frac{1}{2}$  | 23 $\frac{1}{2}$ | 18 $\frac{1}{2}$ | 24 $\frac{1}{2}$  | 22 $\frac{1}{2}$ | 22 $\frac{1}{2}$ | 26                | 5                | 11               | 28 $\frac{1}{2}$  | 26               | 38 $\frac{1}{2}$  | 48 $\frac{1}{2}$  | 44 $\frac{1}{2}$  | 17 $\frac{1}{2}$ | 1 $\frac{1}{2}$ | 1 $\frac{1}{2}$  | 1   |
| 5               | 17 $\frac{1}{2}$ | 12 $\frac{1}{2}$ | 17 $\frac{1}{2}$ | 13 $\frac{1}{2}$ | 19 $\frac{1}{2}$ | 14 $\frac{1}{2}$ | 18 $\frac{1}{2}$ | 23               | 26                | 27 $\frac{1}{2}$ | 21 $\frac{1}{2}$ | 28 $\frac{1}{2}$  | 25 $\frac{1}{2}$ | 25 $\frac{1}{2}$ | 30 $\frac{1}{2}$  | 6 $\frac{1}{2}$  | 12               | 33 $\frac{1}{2}$  | 30               | 41 $\frac{1}{2}$  | 56 $\frac{1}{2}$  | 51                | 20 $\frac{1}{2}$ | 1 $\frac{1}{2}$ | 1 $\frac{1}{2}$  | 1   |
| 6               | 20 $\frac{1}{2}$ | 13 $\frac{1}{2}$ | 19 $\frac{1}{2}$ | 15 $\frac{1}{2}$ | 22 $\frac{1}{2}$ | 16 $\frac{1}{2}$ | 20 $\frac{1}{2}$ | 26 $\frac{1}{2}$ | 29 $\frac{1}{2}$  | 30 $\frac{1}{2}$ | 24 $\frac{1}{2}$ | 32 $\frac{1}{2}$  | 29 $\frac{1}{2}$ | 29 $\frac{1}{2}$ | 33 $\frac{1}{2}$  | 6 $\frac{1}{2}$  | 14               | 38                | 33               | 47                | 63                | 58 $\frac{1}{2}$  | 23 $\frac{1}{2}$ | 1 $\frac{1}{2}$ | 1 $\frac{1}{2}$  | 1   |
| 6 $\frac{1}{2}$ | 22 $\frac{1}{2}$ | 15               | 21 $\frac{1}{2}$ | 17 $\frac{1}{2}$ | 25 $\frac{1}{2}$ | 19 $\frac{1}{2}$ | 23 $\frac{1}{2}$ | 29 $\frac{1}{2}$ | 32 $\frac{1}{2}$  | 33 $\frac{1}{2}$ | 27 $\frac{1}{2}$ | 36 $\frac{1}{2}$  | 33 $\frac{1}{2}$ | 33 $\frac{1}{2}$ | 37                | 7                | 16               | 42 $\frac{1}{2}$  | 36 $\frac{1}{2}$ | 53 $\frac{1}{2}$  | 69 $\frac{1}{2}$  | 66 $\frac{1}{2}$  | 26 $\frac{1}{2}$ | 2 $\frac{1}{2}$ | 1 $\frac{1}{2}$  | 1   |
| 7               | 25 $\frac{1}{2}$ | 16 $\frac{1}{2}$ | 23 $\frac{1}{2}$ | 19 $\frac{1}{2}$ | 28 $\frac{1}{2}$ | 21 $\frac{1}{2}$ | 25 $\frac{1}{2}$ | 32 $\frac{1}{2}$ | 35 $\frac{1}{2}$  | 36 $\frac{1}{2}$ | 30 $\frac{1}{2}$ | 40 $\frac{1}{2}$  | 35 $\frac{1}{2}$ | 35 $\frac{1}{2}$ | 40 $\frac{1}{2}$  | 8                | 18               | 47 $\frac{1}{2}$  | 40               | 58 $\frac{1}{2}$  | 75 $\frac{1}{2}$  | 71 $\frac{1}{2}$  | 29 $\frac{1}{2}$ | 2 $\frac{1}{2}$ | 1 $\frac{1}{2}$  | 1   |
| 8               | 30 $\frac{1}{2}$ | 19 $\frac{1}{2}$ | 27 $\frac{1}{2}$ | 23               | 33 $\frac{1}{2}$ | 25               | 30 $\frac{1}{2}$ | 39 $\frac{1}{2}$ | 41 $\frac{1}{2}$  | 43               | 36 $\frac{1}{2}$ | 48 $\frac{1}{2}$  | 40 $\frac{1}{2}$ | 40 $\frac{1}{2}$ | 48                | 10               | 22 $\frac{1}{2}$ | 56 $\frac{1}{2}$  | 47               | 69 $\frac{1}{2}$  | 89 $\frac{1}{2}$  | 81 $\frac{1}{2}$  | 35               | 2 $\frac{1}{2}$ | 1 $\frac{1}{2}$  | 1   |
| 9               | 35 $\frac{1}{2}$ | 23 $\frac{1}{2}$ | 32 $\frac{1}{2}$ | 26 $\frac{1}{2}$ | 39 $\frac{1}{2}$ | 28 $\frac{1}{2}$ | 35 $\frac{1}{2}$ | 45 $\frac{1}{2}$ | 46 $\frac{1}{2}$  | 49 $\frac{1}{2}$ | 42 $\frac{1}{2}$ | 56 $\frac{1}{2}$  | 46 $\frac{1}{2}$ | 46 $\frac{1}{2}$ | 55 $\frac{1}{2}$  | 12 $\frac{1}{2}$ | 24               | 66 $\frac{1}{2}$  | 56               | 81 $\frac{1}{2}$  | 102 $\frac{1}{2}$ | 93 $\frac{1}{2}$  | 40 $\frac{1}{2}$ | 2 $\frac{1}{2}$ | 1 $\frac{1}{2}$  | 1   |
| 10              | 40               | 25 $\frac{1}{2}$ | 36 $\frac{1}{2}$ | 30 $\frac{1}{2}$ | 45               | 32 $\frac{1}{2}$ | 40 $\frac{1}{2}$ | 52 $\frac{1}{2}$ | 52 $\frac{1}{2}$  | 55 $\frac{1}{2}$ | 48 $\frac{1}{2}$ | 64 $\frac{1}{2}$  | 51 $\frac{1}{2}$ | 51 $\frac{1}{2}$ | 61 $\frac{1}{2}$  | 13 $\frac{1}{2}$ | 28               | 75 $\frac{1}{2}$  | 62               | 93                | 114 $\frac{1}{2}$ | 103 $\frac{1}{2}$ | 46 $\frac{1}{2}$ | 2 $\frac{1}{2}$ | 1 $\frac{1}{2}$  | 1   |
| 11              | 45               | 28 $\frac{1}{2}$ | 40 $\frac{1}{2}$ | 34 $\frac{1}{2}$ | 50 $\frac{1}{2}$ | 36 $\frac{1}{2}$ | 45 $\frac{1}{2}$ | 58 $\frac{1}{2}$ | 58 $\frac{1}{2}$  | 61 $\frac{1}{2}$ | 54 $\frac{1}{2}$ | 72 $\frac{1}{2}$  | 56               | 56 $\frac{1}{2}$ | 68 $\frac{1}{2}$  | 14               | 32               | 85                | 69               | 104 $\frac{1}{2}$ | 126 $\frac{1}{2}$ | 113 $\frac{1}{2}$ | 52 $\frac{1}{2}$ | 3 $\frac{1}{2}$ | 1 $\frac{1}{2}$  | 1   |
| 12              | 49 $\frac{1}{2}$ | 33               | 46               | 38 $\frac{1}{2}$ | 56 $\frac{1}{2}$ | 40 $\frac{1}{2}$ | 51 $\frac{1}{2}$ | 65 $\frac{1}{2}$ | 65 $\frac{1}{2}$  | 68 $\frac{1}{2}$ | 60 $\frac{1}{2}$ | 80 $\frac{1}{2}$  | 63 $\frac{1}{2}$ | 63 $\frac{1}{2}$ | 76 $\frac{1}{2}$  | 15 $\frac{1}{2}$ | 36               | 94 $\frac{1}{2}$  | 79               | 116 $\frac{1}{2}$ | 141 $\frac{1}{2}$ | 126 $\frac{1}{2}$ | 58 $\frac{1}{2}$ | 3 $\frac{1}{2}$ | 1 $\frac{1}{2}$  | 1   |
| 13              | 54 $\frac{1}{2}$ | 36               | 51               | 42               | 61 $\frac{1}{2}$ | 44 $\frac{1}{2}$ | 55 $\frac{1}{2}$ | 71 $\frac{1}{2}$ | 70 $\frac{1}{2}$  | 73 $\frac{1}{2}$ | 66 $\frac{1}{2}$ | 88 $\frac{1}{2}$  | 68 $\frac{1}{2}$ | 68 $\frac{1}{2}$ | 81 $\frac{1}{2}$  | 15 $\frac{1}{2}$ | 40               | 103 $\frac{1}{2}$ | 87               | 127 $\frac{1}{2}$ | 152 $\frac{1}{2}$ | 136 $\frac{1}{2}$ | 64               | 3 $\frac{1}{2}$ | 1 $\frac{1}{2}$  | 1   |
| 14              | 59 $\frac{1}{2}$ | 39               | 55               | 45 $\frac{1}{2}$ | 67 $\frac{1}{2}$ | 48 $\frac{1}{2}$ | 60 $\frac{1}{2}$ | 78 $\frac{1}{2}$ | 76 $\frac{1}{2}$  | 79 $\frac{1}{2}$ | 72 $\frac{1}{2}$ | 96 $\frac{1}{2}$  | 73 $\frac{1}{2}$ | 73 $\frac{1}{2}$ | 87 $\frac{1}{2}$  | 16               | 42               | 113 $\frac{1}{2}$ | 94               | 139               | 164 $\frac{1}{2}$ | 146 $\frac{1}{2}$ | 69 $\frac{1}{2}$ | 4 $\frac{1}{2}$ | 1 $\frac{1}{2}$  | 1   |
| 15              | 64 $\frac{1}{2}$ | 43               | 60               | 49 $\frac{1}{2}$ | 73 $\frac{1}{2}$ | 52 $\frac{1}{2}$ | 65 $\frac{1}{2}$ | 84 $\frac{1}{2}$ | 83 $\frac{1}{2}$  | 86 $\frac{1}{2}$ | 78 $\frac{1}{2}$ | 104 $\frac{1}{2}$ | 79 $\frac{1}{2}$ | 79 $\frac{1}{2}$ | 94 $\frac{1}{2}$  | 16               | 46               | 122 $\frac{1}{2}$ | 103              | 150 $\frac{1}{2}$ | 177 $\frac{1}{2}$ | 158 $\frac{1}{2}$ | 75 $\frac{1}{2}$ | 5               | 1 $\frac{1}{2}$  | 1   |
| 16              | 69 $\frac{1}{2}$ | 45               | 64               | 53 $\frac{1}{2}$ | 78 $\frac{1}{2}$ | 55 $\frac{1}{2}$ | 70               | 91 $\frac{1}{2}$ | 96 $\frac{1}{2}$  | 102              | 85               | 112 $\frac{1}{2}$ | 94 $\frac{1}{2}$ | 94 $\frac{1}{2}$ | 110 $\frac{1}{2}$ | 16 $\frac{1}{2}$ | 48               | 132               | 109              | 161 $\frac{1}{2}$ | 207               | 188 $\frac{1}{2}$ | 81 $\frac{1}{2}$ | 5 $\frac{1}{2}$ | 1 $\frac{1}{2}$  | 1   |
| 17              | 74 $\frac{1}{2}$ | 48               | 68               | 57 $\frac{1}{2}$ | 84 $\frac{1}{2}$ | 60 $\frac{1}{2}$ | 74 $\frac{1}{2}$ | 97 $\frac{1}{2}$ | 101 $\frac{1}{2}$ | 108              | 91               | 120 $\frac{1}{2}$ | 99               | 99               | 117 $\frac{1}{2}$ | 19               | 52               | 141 $\frac{1}{2}$ | 116              | 172 $\frac{1}{2}$ | 219 $\frac{1}{2}$ | 198               | 87 $\frac{1}{2}$ | 6               | 1 $\frac{1}{2}$  | 1   |

Double Inlet

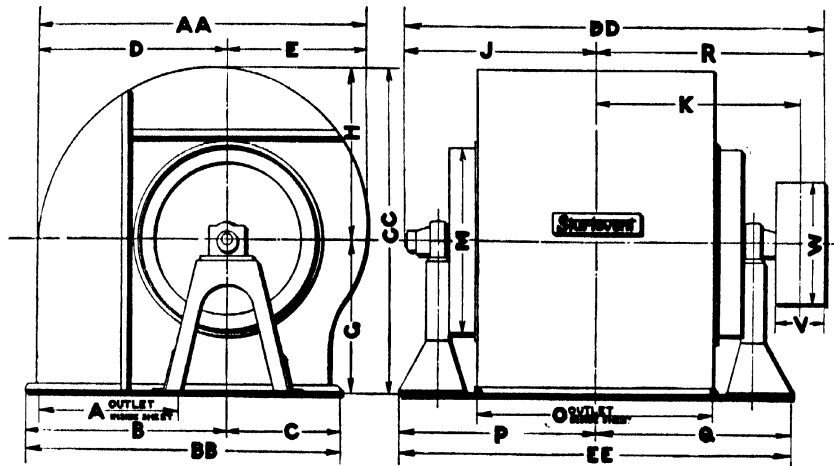
## Multivane Fan—Design 2

Double Width

Full Housing

Down Blast Discharge

Overhung Pulley



| Fan Size | A   | B    | C   | D   | E   | G   | H   | J    | K   | M   | O   | P   | Q   | R    | V   | W  | AA   | BB   | CC   | DD   | EE   | Ex. Wheel Dia | Shaft Dia. | Anchor Bolts | Fan |
|----------|-----|------|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|------|-----|----|------|------|------|------|------|---------------|------------|--------------|-----|
| 2        | 9½  | 14½  | 8½  | 13½ | 9½  | 11  | 11½ | 17   | 17½ | 12½ | 16  | 15½ | 15½ | 18½  | 3½  | 7  | 22½  | 23½  | 22½  | 35½  | 31½  | 11½           | 1½         | 1½           | 1½  |
| 3        | 12½ | 18½  | 11  | 16½ | 11½ | 14  | 14½ | 19½  | 20½ | 15½ | 20  | 19  | 19  | 22½  | 4   | 8½ | 28½  | 29½  | 28½  | 42½  | 38   | 14½           | 1½         | 1½           | 1½  |
| 4        | 14½ | 21½  | 13  | 19½ | 14½ | 16½ | 17½ | 22½  | 23½ | 18½ | 24  | 22½ | 22½ | 26   | 5   | 11 | 34½  | 34½  | 33½  | 48½  | 44½  | 17½           | 1½         | 1½           | 1½  |
| 5        | 17½ | 25½  | 14½ | 23  | 16½ | 18½ | 19½ | 26   | 27½ | 21½ | 28  | 25½ | 25½ | 30½  | 6½  | 12 | 39½  | 40   | 38½  | 56½  | 51   | 20½           | 1½         | 1½           | 1½  |
| 6        | 19½ | 28½  | 16½ | 26½ | 19  | 20½ | 22½ | 29½  | 30½ | 24½ | 32  | 29½ | 29½ | 33½  | 6½  | 14 | 45½  | 45½  | 43½  | 63   | 58½  | 23½           | 1½         | 1½           | 1½  |
| 6½       | 22  | 32½  | 18  | 29½ | 21½ | 23½ | 25½ | 32½  | 33½ | 27½ | 36  | 33½ | 33½ | 37   | 7   | 16 | 51   | 50½  | 49   | 69½  | 66½  | 26½           | 2½         | 1½           | 1½  |
| 7        | 24½ | 35½  | 19½ | 32½ | 23½ | 25½ | 28½ | 35½  | 36½ | 30½ | 40  | 35½ | 35½ | 40½  | 8   | 18 | 56½  | 54½  | 53½  | 75½  | 71½  | 29½           | 2½         | 1½           | 1½  |
| 8        | 29½ | 41½  | 23½ | 39½ | 28½ | 30½ | 33½ | 41½  | 43  | 36½ | 48  | 40½ | 40½ | 48   | 10  | 22 | 67½  | 65½  | 64½  | 89½  | 81½  | 35            | 2½         | 1½           | 1½  |
| 9        | 34½ | 49½  | 27½ | 45½ | 33½ | 35½ | 39½ | 46½  | 49½ | 42½ | 56  | 46½ | 46½ | 55½  | 12½ | 24 | 79   | 76½  | 75   | 102½ | 93½  | 40½           | 2½         | 1½           | 1½  |
| 10       | 39½ | 55½  | 31½ | 52½ | 37½ | 40½ | 45  | 52½  | 55½ | 48½ | 64  | 51½ | 51½ | 61½  | 13½ | 28 | 90   | 87½  | 85½  | 114½ | 103½ | 46½           | 2½         | 1½           | 1½  |
| 11       | 44½ | 62½  | 34½ | 58½ | 42½ | 45½ | 50½ | 58½  | 61½ | 54½ | 72  | 56½ | 56½ | 68½  | 14  | 32 | 101½ | 96½  | 96½  | 126½ | 113½ | 52½           | 3½         | 1½           | 1½  |
| 12       | 49½ | 70½  | 40  | 65½ | 47½ | 42½ | 56½ | 65½  | 68½ | 60½ | 80  | 63½ | 63½ | 76½  | 15½ | 36 | 112½ | 110½ | 98½  | 141½ | 126½ | 58½           | 3½         | 1½           | 1½  |
| 13       | 54  | 76½  | 43  | 71½ | 51½ | 46  | 61½ | 70½  | 73½ | 66½ | 88  | 68½ | 68½ | 81½  | 15½ | 40 | 123½ | 119½ | 107½ | 152  | 136½ | 64            | 3½         | 1½           | 1½  |
| 14       | 58½ | 83½  | 47  | 78½ | 56½ | 49½ | 67½ | 76½  | 79½ | 72½ | 96  | 73½ | 73½ | 87½  | 16  | 42 | 135  | 130½ | 117½ | 164½ | 146½ | 69½           | 4          | 1½           | 1½  |
| 15       | 63½ | 90½  | 51  | 84½ | 61½ | 53½ | 73½ | 83½  | 86½ | 78½ | 104 | 79½ | 79½ | 94½  | 16  | 46 | 146½ | 141½ | 126½ | 177½ | 158½ | 75½           | 5          | 1½           | 1½  |
| 16       | 68½ | 97½  | 55  | 91½ | 66  | 57½ | 78½ | 96½  | 102 | 85  | 112 | 94½ | 94½ | 110½ | 16½ | 48 | 157½ | 152½ | 136  | 207  | 188½ | 81½           | 5½         | 1½           | 1½  |
| 17       | 73½ | 103½ | 58  | 97½ | 70½ | 61½ | 84½ | 101½ | 108 | 91  | 120 | 99  | 99  | 117½ | 19  | 52 | 168½ | 161½ | 145½ | 219½ | 198  | 87½           | 6          | 1½           | 1   |

Double Inlet

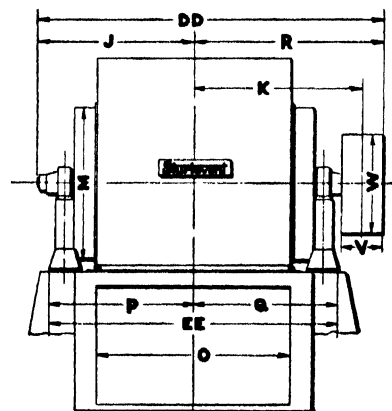
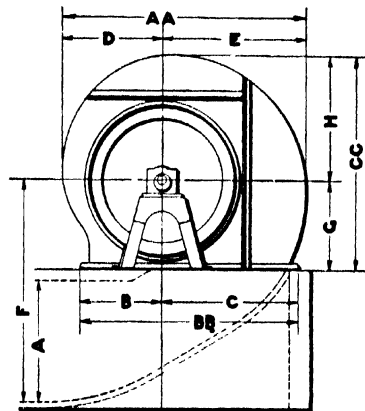
## Multivane Fan—Design 2

Double Width

 $\frac{7}{8}$  Housing

Bottom Horizontal Discharge

Overhung Pulley



| Fan Size | A   | B  | C   | D  | E   | F   | G  | H   | J   | K   | M   | O   | P   | Q   | R   | V  | W  | AA  | BB  | CC  | DD  | EE  | Extreme Wheel Diameter | Shaft Diameter | Anchor Bolts |     |
|----------|-----|----|-----|----|-----|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|-----|-----|-----|-----|-----|------------------------|----------------|--------------|-----|
|          |     |    |     |    |     |     |    |     |     |     |     |     |     |     |     |    |    |     |     |     |     |     |                        |                | Pad.         | Fan |
| 10       | 39  | 27 | 45  | 32 | 47  | 72  | 29 | 40  | 52  | 55  | 48  | 64  | 48  | 48  | 61  | 13 | 28 | 80  | 73  | 69  | 114 | 96  | 46                     | 2              | 1            | 1   |
| 11       | 44  | 30 | 51  | 37 | 53  | 80  | 32 | 45  | 58  | 61  | 54  | 72  | 54  | 54  | 68  | 14 | 32 | 90  | 81  | 77  | 126 | 108 | 52                     | 3              | 1            | 1   |
| 12       | 49  | 35 | 57  | 41 | 59  | 90  | 36 | 50  | 65  | 68  | 60  | 80  | 60  | 60  | 76  | 15 | 36 | 100 | 92  | 86  | 141 | 120 | 58                     | 3              | 1            | 1   |
| 13       | 54  | 38 | 62  | 45 | 65  | 98  | 39 | 55  | 70  | 73  | 66  | 88  | 65  | 65  | 81  | 15 | 40 | 110 | 100 | 95  | 152 | 131 | 64                     | 3              | 1            | 1   |
| 14       | 59  | 42 | 68  | 49 | 71  | 106 | 42 | 60  | 76  | 79  | 72  | 96  | 71  | 71  | 87  | 16 | 42 | 120 | 110 | 103 | 164 | 142 | 69                     | 4              | 1            | 1   |
| 15       | 64  | 45 | 75  | 53 | 77  | 113 | 45 | 65  | 83  | 86  | 78  | 104 | 77  | 77  | 94  | 16 | 46 | 130 | 120 | 111 | 177 | 155 | 75                     | 5              | 1            | 1   |
| 16       | 69  | 47 | 80  | 57 | 82  | 121 | 48 | 70  | 96  | 102 | 85  | 112 | 94  | 94  | 110 | 16 | 48 | 140 | 127 | 119 | 207 | 188 | 81                     | 5              | 1            | 1   |
| 17       | 73  | 51 | 85  | 61 | 88  | 130 | 52 | 75  | 101 | 108 | 91  | 120 | 99  | 99  | 117 | 19 | 52 | 150 | 137 | 127 | 219 | 198 | 87                     | 6              | 1            | 1   |
| 18       | 78  | 59 | 90  | 65 | 94  | 137 | 55 | 80  | 106 |     | 97  | 128 | 103 | 103 |     |    |    | 160 | 150 | 135 |     | 207 | 93                     | 6              | 1            | 1   |
| 20       | 88  | 66 | 101 | 74 | 106 | 153 | 61 | 90  | 115 |     | 109 | 144 | 110 | 110 |     |    |    | 180 | 167 | 151 |     | 221 | 105                    | 8              | 1            | 1   |
| 22       | 98  | 73 | 111 | 82 | 118 | 170 | 68 | 100 | 125 |     | 121 | 160 | 121 | 121 |     |    |    | 200 | 184 | 168 |     | 243 | 116                    | 8              | 1            | 1   |
| 24       | 108 | 79 | 122 | 90 | 130 | 186 | 74 | 110 | 135 |     | 133 | 176 | 132 | 132 |     |    |    | 220 | 201 | 184 |     | 265 | 128                    | 8              | 1            | 1   |
| 26       | 117 | 86 | 133 | 98 | 141 | 201 | 80 | 120 | 145 |     | 145 | 192 | 143 | 143 |     |    |    | 240 | 219 | 200 |     | 286 | 140                    | 8              | 1            | 1   |

Double Inlet

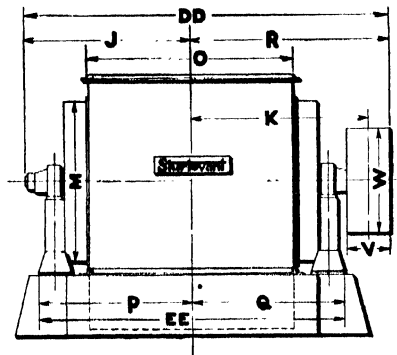
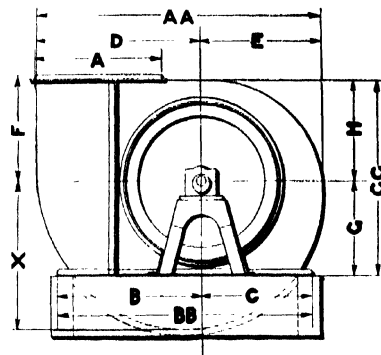
## Multivane Fan—Design 2

Double Width

 $\frac{7}{8}$  Housing

Up Blast Discharge

Overhung Pulley



| Size | A   | B   | C   | D   | E   | F  | G  | H  | J   | K   | M   | O   | P   | Q   | R   | V  | W  | X   | AA  | BB  | CC  | DD  | EE  | Extreme Wheel Diameter | Shaft Dia. | An. Bolts |
|------|-----|-----|-----|-----|-----|----|----|----|-----|-----|-----|-----|-----|-----|-----|----|----|-----|-----|-----|-----|-----|-----|------------------------|------------|-----------|
| 10   | 40  | 45  | 31  | 52  | 37  | 32 | 29 | 30 | 52  | 55  | 48  | 61  | 48  | 48  | 61  | 13 | 28 | 45  | 90  | 80  | 59  | 114 | 96  | 46                     | 2 1/8      | 1         |
| 11   | 45  | 51  | 38  | 58  | 42  | 36 | 32 | 34 | 58  | 61  | 54  | 72  | 51  | 54  | 68  | 14 | 32 | 50  | 101 | 89  | 66  | 126 | 108 | 52                     | 3 1/8      | 1         |
| 12   | 49  | 57  | 43  | 65  | 47  | 40 | 36 | 38 | 65  | 68  | 60  | 80  | 60  | 60  | 76  | 15 | 36 | 56  | 112 | 101 | 74  | 141 | 120 | 58                     | 3 1/8      | 1         |
| 13   | 54  | 62  | 47  | 71  | 51  | 44 | 39 | 42 | 70  | 73  | 66  | 88  | 65  | 65  | 81  | 15 | 40 | 61  | 123 | 110 | 81  | 152 | 131 | 64                     | 3 1/8      | 1         |
| 14   | 59  | 68  | 51  | 78  | 56  | 48 | 42 | 45 | 76  | 79  | 72  | 96  | 71  | 71  | 87  | 16 | 42 | 67  | 135 | 120 | 88  | 164 | 142 | 69                     | 4 1/8      | 1         |
| 15   | 61  | 75  | 57  | 81  | 61  | 52 | 45 | 49 | 83  | 86  | 78  | 104 | 77  | 77  | 94  | 16 | 46 | 73  | 146 | 132 | 95  | 177 | 155 | 75                     | 5          | 1         |
| 16   | 69  | 80  | 60  | 91  | 66  | 55 | 48 | 53 | 96  | 102 | 85  | 112 | 94  | 94  | 110 | 16 | 48 | 78  | 157 | 140 | 102 | 207 | 188 | 81                     | 5 1/2      | 1 1/2     |
| 17   | 74  | 85  | 61  | 97  | 70  | 60 | 52 | 57 | 101 | 108 | 91  | 120 | 99  | 99  | 117 | 19 | 52 | 84  | 168 | 150 | 109 | 219 | 198 | 87                     | 6          | 1 1/2     |
| 18   | 79  | 90  | 68  | 104 | 75  | 64 | 55 | 60 | 106 |     | 97  | 128 | 103 | 103 |     |    |    | 89  | 179 | 159 | 115 |     | 207 | 93                     | 6          | 1 1/2     |
| 20   | 89  | 101 | 76  | 117 | 84  | 72 | 61 | 68 | 115 |     | 109 | 144 | 110 | 110 |     |    |    | 101 | 202 | 178 | 129 |     | 221 | 105                    | 8          | 1 1/2     |
| 22   | 98  | 111 | 81  | 130 | 94  | 79 | 68 | 76 | 125 |     | 121 | 160 | 121 | 121 |     |    |    | 112 | 224 | 196 | 144 |     | 243 | 116                    | 8          | 1 1/2     |
| 24   | 108 | 122 | 92  | 143 | 103 | 88 | 74 | 83 | 135 |     | 133 | 177 | 132 | 132 |     |    |    | 123 | 247 | 215 | 157 |     | 265 | 128                    | 8          | 1 1/2     |
| 26   | 118 | 133 | 100 | 156 | 113 | 95 | 80 | 91 | 145 |     | 145 | 193 | 143 | 143 |     |    |    | 134 | 269 | 234 | 171 |     | 286 | 140                    | 8          | 1 1/2     |

Double Inlet

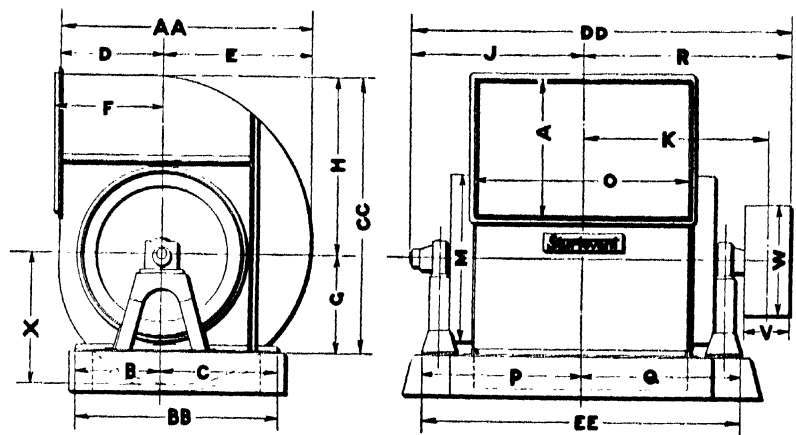
## Multivane Fan—Design 2

Double Width

 $\frac{7}{8}$  Housing

Top Horizontal Discharge

Overhung Pulley



| Fan Size | A    | B   | C    | D   | E    | F   | G   | H    | J    | K   | M    | O    | P    | Q    | R    | V   | W  | X    | AA   | BB   | CC   | DD   | EE   | Extreme Wheel Diameter | Shaft Dia. | Anchor Bolt Dia. | Fan |
|----------|------|-----|------|-----|------|-----|-----|------|------|-----|------|------|------|------|------|-----|----|------|------|------|------|------|------|------------------------|------------|------------------|-----|
| 10       | 40   | 25½ | 36   | 30½ | 45   | 32½ | 29½ | 52½  | 52½  | 55½ | 48½  | 64½  | 48½  | 48½  | 61½  | 13½ | 28 | 37½  | 75½  | 61½  | 81½  | 114½ | 96½  | 46½                    | 2½         | 1                | 1   |
| 11       | 45   | 28½ | 40½  | 34½ | 50½  | 36½ | 32½ | 58½  | 58½  | 61½ | 54½  | 72½  | 54   | 54   | 68½  | 14  | 32 | 42½  | 85   | 69   | 90½  | 126½ | 108  | 52½                    | 3½         | 1                | 1   |
| 12       | 49½  | 32½ | 45½  | 38½ | 56½  | 40½ | 36½ | 65½  | 65½  | 68½ | 60½  | 80½  | 60½  | 60½  | 76½  | 15½ | 36 | 47½  | 94½  | 78   | 101½ | 141½ | 120½ | 58½                    | 3½         | 1                | 1   |
| 13       | 54½  | 35½ | 49½  | 42  | 61½  | 44½ | 39½ | 71½  | 70½  | 73½ | 66½  | 88½  | 65½  | 65½  | 81½  | 15½ | 40 | 51½  | 103½ | 85   | 111½ | 152  | 131½ | 64                     | 3½         | 1                | 1   |
| 14       | 59½  | 38½ | 53½  | 45½ | 67½  | 48½ | 42½ | 78½  | 76½  | 79½ | 72½  | 96½  | 71½  | 71½  | 87½  | 16  | 42 | 56½  | 113½ | 92   | 121½ | 164½ | 142½ | 69½                    | 4½         | 1                | 1   |
| 15       | 64½  | 42½ | 59½  | 49½ | 73½  | 52½ | 45½ | 84½  | 83½  | 86½ | 78½  | 104½ | 77½  | 77½  | 94½  | 16  | 46 | 61½  | 122½ | 102  | 130½ | 177½ | 155½ | 75½                    | 5          | 1                | 1   |
| 16       | 69½  | 45  | 63½  | 53½ | 78½  | 55½ | 48½ | 91½  | 96½  | 102 | 85   | 112½ | 94½  | 94½  | 110½ | 16½ | 48 | 66   | 132  | 108½ | 140½ | 207  | 188½ | 81½                    | 5½         | 1                | 1   |
| 17       | 74½  | 48  | 67½  | 57½ | 84½  | 60½ | 52½ | 97½  | 101½ | 108 | 91   | 120½ | 99   | 99   | 117½ | 19  | 52 | 70½  | 141½ | 115½ | 149½ | 219½ | 198  | 87½                    | 6          | 1½               | 1   |
| 18       | 79½  | 50½ | 71½  | 60½ | 89½  | 64½ | 55½ | 104½ | 106  |     | 97½  | 128½ | 103½ | 103½ |      |     |    | 75½  | 150½ | 122½ | 159½ |      | 207  | 93½                    | 6          | 1½               | 1   |
| 20       | 89½  | 56½ | 80½  | 68½ | 101  | 72  | 61½ | 117½ | 115½ |     | 109½ | 144½ | 110½ | 110½ |      |     |    | 84½  | 169½ | 137  | 178½ |      | 221½ | 105                    | 8          | 1½               | 1   |
| 22       | 98½  | 62½ | 88½  | 76½ | 112½ | 79  | 68  | 130½ | 125½ |     | 121½ | 160½ | 121½ | 121½ |      |     |    | 94½  | 188½ | 150½ | 198½ |      | 243  | 116½                   | 8          | 1½               | 1   |
| 24       | 108½ | 68  | 96½  | 83½ | 123½ | 88  | 74  | 143½ | 135½ |     | 133½ | 177  | 132½ | 132½ |      |     |    | 103½ | 207½ | 164½ | 217½ |      | 265  | 128                    | 8          | 1½               | 1½  |
| 26       | 118½ | 73½ | 105½ | 91½ | 134½ | 95  | 80  | 156½ | 145  |     | 145½ | 193  | 143  | 143  |      |     |    | 113  | 226  | 179  | 236½ |      | 286  | 140                    | 8          | 1½               | 1½  |



### Single Width

**When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances**

| R.P.M. | Tip Speed<br>F.P.M. | S.N.D.<br>in<br>inches | Volume  | H. P. | Volume   | H. P. | Volume   | H. P. | Volume   | H. P. | Volume   | H. P. | Volume   | H. P. | Volume   | H. P. |
|--------|---------------------|------------------------|---|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|
|        |                     |                        | C.F.M.  |       | C.F.M.   |       | C.F.M.   |       | C.F.M.   |       | C.F.M.   |       | C.F.M.   |       | C.F.M.   |       |
|        |                     |                        | Static Pressure<br>1/2" Water<br>.0722 ozs. per<br>sq. inch |       | Static Pressure<br>1/2" Water<br>.145 ozs. per<br>sq. inch |       | Static Pressure<br>3/4" Water<br>.217 ozs. per<br>sq. inch |       | Static Pressure<br>1/2" Water<br>.289 ozs. per<br>sq. inch |       | Static Pressure<br>3/4" Water<br>.361 ozs. per<br>sq. inch |       | Static Pressure<br>1/2" Water<br>.434 ozs. per<br>sq. inch |       | Static Pressure<br>3/4" Water<br>.506 ozs. per<br>sq. inch |       |
| 349    | 1050                | 179                    | 436   | 0 02  |  |       |  |       |  |       |  |       |  |       |  |       |
| 400    | 1200                | 233                    | 665   | 0 03  |  |       |  |       |  |       |  |       |  |       |  |       |
| 466    | 1400                | 316                    | 836   | 0 06  |  |       |  |       |  |       |  |       |  |       |  |       |
| 532    | 1600                | 412                    | 1000  | 0 08  | 825  | 0 07  |  |       |  |       |  |       |  |       |  |       |
| 598    | 1800                | 520                    | 1150  | 0 12  | 1,040  | 0 12  | 653  | 0 07  |  |       |  |       |  |       |  |       |
| 665    | 2000                | 645                    |   |       | 1,210  | 0 17  | 1,060  | 0 14  |  |       |  |       |  |       |  |       |
| 731    | 2200                | 780                    |   |       | 1,370  | 0 22  | 1,270  | 0 22  | 1,070  | 0 17  |  |       |  |       |  |       |
| 797    | 2400                | 930                    |   |       | 1,530  | 0 29  | 1,430  | 0 29  | 1,320  | 0 26  | 1,080  | 0 21  |  |       |  |       |
| 864    | 2600                | 1 09                   |   |       | 1,680  | 0 37  | 1,590  | 0 37  | 1,510  | 0 40  | 1,390  | 0 32  | 1,120  | 0 25  |  |       |
| 930    | 2800                | 1 26                   |   |       |  |       | 1,750  | 0 46  | 1,670  | 0 46  | 1,600  | 0 44  | 1,460  | 0 39  | 1,180  | 0 31  |
| 996    | 3000                | 1 45                   |   |       |  |       | 1,910  | 0 57  | 1,840  | 0 57  | 1,770  | 0 56  | 1,680  | 0 53  | 1,540  | 0 48  |
| 1062   | 3200                | 1 65                   |   |       |  |       | 2,070  | 0 69  | 1,990  | 0 69  | 1,940  | 0 69  | 1,860  | 0 68  | 1,780  | 0 64  |
| 1130   | 3400                | 1 86                   |   |       |  |       |  |       | 2,160  | 0 82  | 2,090  | 0 82  | 2,020  | 0 82  | 1,970  | 0 82  |
| 1196   | 3600                | 2 10                   |   |       |  |       |  |       | 2,310  | 0 98  | 2,240  | 0 97  | 2,180  | 0 99  | 2,130  | 0 98  |
| 1262   | 3800                | 2 32                   |   |       |  |       |  |       |  |       | 2,410  | 1 20  | 2,360  | 1 20  | 2,300  | 1 20  |
| 1329   | 4000                | 2 58                   |   |       |  |       |  |       |  |       | 2,560  | 1 30  | 2,520  | 1 35  | 2,450  | 1 30  |
| 1396   | 4200                | 2 85                   |   |       |  |       |  |       |  |       |  |       |  |       |  |       |
| 1462   | 4400                | 3 13                   |   |       |  |       |  |       |  |       |  |       | 2,670  | 1 55  | 2,610  | 1 50  |
| 1528   | 4600                | 3 41                   |   |       |  |       |  |       |  |       |  |       | 2,820  | 1 8   | 2,770  | 1 80  |
| 1594   | 4800                | 3 70                   |   |       |  |       |  |       |  |       |  |       |  |       | 2,930  | 2 10  |
|        |                     |                        |   |       |  |       |  |       |  |       |  |       |  |       | 3,090  | 2 30  |

| R.P.M. | Tip Speed<br>F.P.M. | S.N.D.<br>in<br>inches | Static Pressure<br>1" Water<br>.578 ozs. per<br>sq. inch |      | Static Pressure<br>1 1/4" Water<br>.723 ozs. per<br>sq. inch |      | Static Pressure<br>1 1/2" Water<br>.878 ozs. per<br>sq. inch |      | Static Pressure<br>1 3/4" Water<br>1.01 ozs. per<br>sq. inch |      | Static Pressure<br>2" Water<br>1.16 ozs. per<br>sq. inch |      | Static Pressure<br>2 1/4" Water<br>1.45 ozs. per<br>sq. inch |      | Static Pressure<br>2 1/2" Water<br>1.73 ozs. per<br>sq. inch |      |
|--------|---------------------|------------------------|--|------|--|------|--|------|--|------|--|------|--|------|--|------|
| 1066   | 3000                | 1 45                   | 1,200  | 0 39 |  |      |  |      |  |      |  |      |  |      |  |      |
| 1062   | 3200                | 1 65                   | 1,640  | 0 58 |  |      |  |      |  |      |  |      |  |      |  |      |
| 1130   | 3400                | 1 86                   | 1,880  | 0 76 | 1,540  | 0 60 |  |      |  |      |  |      |  |      |  |      |
| 1196   | 3600                | 2 10                   | 2,070  | 0 96 | 1,870  | 0 83 | 1,400  | 0 62 |  |      |  |      |  |      |  |      |
| 1262   | 3800                | 2 32                   | 2,240  | 1 10 | 2,110  | 1 00 | 1,830  | 0 90 |  |      |  |      |  |      |  |      |
| 1329   | 4000                | 2 58                   | 2,390  | 1 30 | 2,290  | 1 30 | 2,110  | 1 10 | 1,770  | 0 96 |  |      |  |      |  |      |
| 1396   | 4200                | 2 85                   | 2,560  | 1 50 | 2,470  | 1 50 | 2,340  | 1 40 | 2,130  | 1 30 | 1,720  | 1 05 |  |      |  |      |
| 1462   | 4400                | 3 13                   | 2,740  | 1 80 | 2,630  | 1 80 | 2,530  | 1 70 | 2,390  | 1 60 | 2,140  | 1 40 |  |      |  |      |
| 1528   | 4600                | 3 41                   | 2,890  | 2 10 | 2,800  | 2 00 | 2,700  | 2 00 | 2,600  | 1 90 | 2,430  | 1 80 | 1,620  | 1 10 |  |      |
| 1594   | 4800                | 3 70                   | 3,040  | 2 30 | 2,950  | 2 30 | 2,870  | 2 30 | 2,780  | 2 20 | 2,650  | 2 10 | 2,160  | 1 60 |  |      |
| 1662   | 5000                | 4 05                   | 3,190  | 2 70 | 3,110  | 2 70 | 3,030  | 2 60 | 2,940  | 2 60 | 2,830  | 2 60 | 2,510  | 2 10 | 1,640  | 1 40 |
| 1745   | 5250                | 4 44                   |  |      | 3,310  | 3 10 | 3,240  | 3 10 | 3,140  | 3 10 | 3,060  | 3 00 | 2,830  | 2 70 | 2,360  | 2 20 |
| 1828   | 5500                | 4 88                   |  |      | 3,490  | 3 50 | 3,430  | 3 50 | 3,340  | 3 50 | 3,260  | 3 50 | 3,100  | 3 30 | 2,790  | 2 90 |
| 1910   | 5750                | 5 33                   |  |      | 3,690  | 4 00 | 3,620  | 4 00 | 3,550  | 4 00 | 3,480  | 4 0  | 3,330  | 3 90 | 3,100  | 3 50 |
| 1993   | 6000                | 5 80                   |  |      |  |      | 3,820  | 4 55 | 3,740  | 4 50 | 3,680  | 4 5  | 3,540  | 4 5  | 3,350  | 4 20 |
| 2076   | 6250                | 6 30                   |  |      |  |      |  |      | 3,940  | 5 1  | 3,880  | 5 1  | 3,740  | 5 1  | 3,590  | 5 0  |
| 2160   | 6500                | 6 81                   |  |      |  |      |  |      | 4,140  | 5 8  | 4,060  | 5 8  | 3,940  | 5 8  | 3,820  | 5 7  |
| 2240   | 6750                | 7 34                   |  |      |  |      |  |      | 4,330  | 6 5  | 4,280  | 6 5  | 4,140  | 6 5  | 4,020  | 6 5  |
| 2325   | 7000                | 7 89                   |  |      |  |      |  |      |  |      | 4,460  | 7 3  | 4,340  | 7 3  | 4,230  | 7 3  |
| 2400   | 7500                | 9 06                   |  |      |  |      |  |      |  |      |  |      | 4 730  | 9    | 4,610  | 9 0  |
| 2660   | 8000                | 10 32                  |  |      |  |      |  |      |  |      |  |      |  |      | 5,010  | 11 0 |
| 2820   | 8500                | 11 63                  |  |      |  |      |  |      |  |      |  |      |  |      | 5,410  | 13 0 |

| R.P.M. | Tip Speed<br>F.P.M. | S.N.D.<br>in<br>inches | Static Pressure<br>3 1/2" Water<br>2.02 ozs. per<br>sq. inch |      | Static Pressure<br>4" Water<br>2.31 ozs. per<br>sq. inch |      | Static Pressure<br>5" Water<br>2.69 ozs. per<br>sq. inch |      | Static Pressure<br>6" Water<br>3.47 ozs. per<br>sq. inch |     | Static Pressure<br>7" Water<br>4.05 ozs. per<br>sq. inch |      | Static Pressure<br>8" Water<br>4.63 ozs. per<br>sq. inch |      | Static Pressure<br>9" Water<br>5.2 ozs. per<br>sq. inch |      |
|--------|---------------------|------------------------|--|------|--|------|--|------|--|-----|--|------|--|------|---|------|
| 1828   | 5500                | 4 88                   | 2,100  | 2 10 |  |      |  |      |  |     |  |      |  |      |   |      |
| 1910   | 5750                | 5 33                   | 2,700  | 3 10 | 1,720  | 2 00 |  |      |  |     |  |      |  |      |   |      |
| 1993   | 6000                | 5 80                   | 3,090  | 3 80 | 2,570  | 3 10 |  |      |  |     |  |      |  |      |   |      |
| 2076   | 6250                | 6 30                   | 3,410  | 4 60 | 3,060  | 3 9  |  |      |  |     |  |      |  |      |   |      |
| 2160   | 6500                | 6 81                   | 3,660  | 5 50 | 3,420  | 4 9  | 2,280  | 3 30 |  |     |  |      |  |      |   |      |
| 2240   | 6750                | 7 34                   | 3,880  | 6 3  | 3,690  | 5 9  | 2,970  | 4 50 |  |     |  |      |  |      |   |      |
| 2325   | 7000                | 7 89                   | 4,100  | 7 2  | 3,940  | 6 8  | 3,440  | 5 5  |  |     |  |      |  |      |   |      |
| 2490   | 7500                | 9 06                   | 4,500  | 8 9  | 4,300  | 8 8  | 4,080  | 8 0  | 3,480  | 6 6 |  |      |  |      |   |      |
| 2660   | 8000                | 10 32                  | 4,900  | 11 0 | 4,810  | 11 0 | 4,570  | 10 0 | 4,240  | 9 4 | 3,530  | 7 1  |  |      |   |      |
| 2820   | 8500                | 11 63                  | 5,300  | 13 0 | 5,200  | 13 0 | 5,010  | 12 5 | 4,780  | 12  | 4,370  | 11 0 | 3,650  | 8 9  |   |      |
| 2990   | 9000                | 13 05                  | 5,690  | 15 5 | 5,600  | 15 5 | 5,430  | 15 5 | 5,200  | 15  | 4,980  | 14 0 | 4,570  | 12 5 | 3,840   | 10 5 |
| 3160   | 9500                | 14 53                  | 6,080  | 18   | 6,000  | 18   | 5,810  | 18   | 5,605  | 18  | 5,450  | 17 5 | 5,190  | 16 5 | 4,780   | 14 5 |
| 3320   | 10000               | 16 20                  |  |      | 6,380  | 21   | 6 230  | 21   | 6,060  | 21  | 5,880  | 21   | 5,700  | 20 5 | 5,450   | 19   |

Single Inlet

## No. 3 Multivane Fan — Design 2

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed<br>F.P.M. | S.N.D.<br>in<br>inches | Volume<br>C.F.M.  | H. P.  | Volume<br>C.F.M.   | H. P.  | Volume<br>C.F.M.   | H. P.  | Volume<br>C.F.M.   | H. P.  | Volume<br>C.F.M.   | H. P.  | Volume<br>C.F.M.   | H. P.  | Volume<br>C.F.M.   | H. P.  |
|--------|---------------------|------------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|
|        |                     |                        | Static Pressure<br>1/2" Water<br>.0722 ozs. per<br>sq. inch | Static Pressure<br>1/4" Water<br>.145 ozs. per<br>sq. inch | Static Pressure<br>1/4" Water<br>.145 ozs. per<br>sq. inch | Static Pressure<br>1/4" Water<br>.145 ozs. per<br>sq. inch | Static Pressure<br>1/4" Water<br>.145 ozs. per<br>sq. inch | Static Pressure<br>1/4" Water<br>.145 ozs. per<br>sq. inch | Static Pressure<br>1/4" Water<br>.145 ozs. per<br>sq. inch | Static Pressure<br>1/4" Water<br>.145 ozs. per<br>sq. inch | Static Pressure<br>1/4" Water<br>.145 ozs. per<br>sq. inch | Static Pressure<br>1/4" Water<br>.145 ozs. per<br>sq. inch | Static Pressure<br>1/4" Water<br>.145 ozs. per<br>sq. inch | Static Pressure<br>1/4" Water<br>.145 ozs. per<br>sq. inch | Static Pressure<br>1/4" Water<br>.145 ozs. per<br>sq. inch | Static Pressure<br>1/4" Water<br>.145 ozs. per<br>sq. inch |
| 270    | 1050                | 179                    | 682   | 0 02   |  |  |  |  |  |  |  |  |  |  |  |  |
| 318    | 1200                | 233                    | 1,040   | 0 05   |  |  |  |  |  |  |  |  |  |  |  |  |
| 371    | 1400                | 316                    | 1,310   | 0 09   |  |  |  |  |  |  |  |  |  |  |  |  |
| 424    | 1600                | 412                    | 1,560   | 0 13   | 1,290  | 0 11   |  |  |  |  |  |  |  |  |  |  |
| 477    | 1800                | 520                    | 1,800   | 0 18   | 1,620  | 0 18   | 1,020  | 0 11   |  |  |  |  |  |  |  |  |
| 530    | 2000                | 645                    |   |  | 1,890  | 0 26   | 1,660  | 0 23   |  |  |  |  |  |  |  |  |
| 583    | 2200                | 780                    |   |  | 2,140  | 0 35   | 1,980  | 0 31   | 1,670  | 0 27   |  |  |  |  |  |  |
| 636    | 2400                | 930                    |   |  | 2,400  | 0 45   | 2,230  | 0 45   | 2,070  | 0 41   | 1,690  | 0 33   |  |  |  |  |
| 689    | 2600                | 1 09                   |   |  | 2,630  | 0 58   | 2,480  | 0 58   | 2,360  | 0 56   | 2,170  | 0 51   | 1,750  | 0 40   |  |  |
| 742    | 2800                | 1 26                   |   |  |  |  | 2,740  | 0 72   | 2,610  | 0 72   | 2,490  | 0 69   | 2,280  | 0 61   | 1,840  | 0 48   |
| 795    | 3000                | 1 45                   |   |  |  |  | 2,980  | 0 89   | 2,870  | 0 89   | 2,760  | 0 88   | 2,630  | 0 84   | 2,410  | 0 75   |
| 848    | 3200                | 1 65                   |   |  |  |  | 3,220  | 1 1  | 3,110  | 1 10   | 3,020  | 1 10   | 2,910  | 1 00   | 2,780  | 1 00   |
| 901    | 3400                | 1 86                   |   |  |  |  |  |  | 3,360  | 1 30   | 3,260  | 1 30   | 3,160  | 1 30   | 3,080  | 1 20   |
| 954    | 3600                | 2 10                   |   |  |  |  |  |  | 3,600  | 1 50   | 3,510  | 1 50   | 3,420  | 1 50   | 3,330  | 1 50   |
| 1007   | 3800                | 2 32                   |   |  |  |  |  |  |  |  | 3,760  | 1 80   | 3,680  | 1 80   | 3,580  | 1 80   |
| 1060   | 4000                | 2 58                   |   |  |  |  |  |  |  |  | 3,990  | 2 10   | 3,930  | 2 10   | 3,820  | 2 10   |
| 1113   | 4200                | 2 85                   |   |  |  |  |  |  |  |  |  |  | 4,170  | 2 40   | 4,080  | 2 40   |
| 1166   | 4400                | 3 13                   |   |  |  |  |  |  |  |  |  |  | 4,400  | 2 80   | 4,320  | 2 80   |
| 1220   | 4600                | 3 41                   |   |  |  |  |  |  |  |  |  |  |  |  | 4,580  | 3 20   |
| 1273   | 4800                | 3 70                   |   |  |  |  |  |  |  |  |  |  |  |  | 4,820  | 3 60   |
| 795    | 3000                | 1 45                   | 2,010   | 0 61   |  |  |  |  |  |  |  |  |  |  |  |  |
| 848    | 3200                | 1 65                   | 2,560   | 0 90   |  |  |  |  |  |  |  |  |  |  |  |  |
| 901    | 3400                | 1 86                   | 2,930   | 1 20   | 2,400  | 0 94   |  |  |  |  |  |  |  |  |  |  |
| 954    | 3600                | 2 10                   | 3,240   | 1 50   | 2,910  | 1 30   | 2,190  | 0 97   |  |  |  |  |  |  |  |  |
| 1007   | 3800                | 2 32                   | 3,500   | 1 80   | 3,290  | 1 60   | 2,850  | 1 40   |  |  |  |  |  |  |  |  |
| 1060   | 4000                | 2 58                   | 3,730   | 2 10   | 3,570  | 2 00   | 3,290  | 1 80   | 2,760  | 1 50   |  |  |  |  |  |  |
| 1113   | 4200                | 2 85                   | 4,000   | 2 40   | 3,850  | 2 40   | 3,650  | 2 30   | 3,330  | 2 0  | 2,680  | 1 6  |  |  |  |  |
| 1166   | 4400                | 3 13                   | 4,270   | 2 80   | 4,100  | 2 80   | 3,950  | 2 70   | 3,720  | 2 50   | 3,340  | 2 2  |  |  |  |  |
| 1220   | 4600                | 3 41                   | 4,510   | 3 20   | 4,370  | 3 20   | 4,220  | 3 10   | 4,000  | 3 0  | 3,780  | 2 8  | 2,520  | 1 8  |  |  |
| 1273   | 4800                | 3 70                   | 4,750   | 3 60   | 4,600  | 3 60   | 4,470  | 3 60   | 4,350  | 3 5  | 4,130  | 3 3  | 3,360  | 2 6  |  |  |
| 1326   | 5000                | 4 05                   | 4,980   | 4 10   | 4,850  | 4 10   | 4,730  | 4 10   | 4,600  | 4 1  | 4,420  | 4 0  | 3,920  | 3 3  | 2,570  | 2 20   |
| 1392   | 5250                | 4 41                   |   |  | 5,170  | 4 80   | 5,050  | 4 80   | 4,900  | 4 8  | 4,780  | 4 7  | 4,420  | 4 2  | 3,680  | 3 4  |
| 1459   | 5500                | 4 88                   |   |  | 5,460  | 5 50   | 5,350  | 5 50   | 5,220  | 5 5  | 5,100  | 5 5  | 4,850  | 5 2  | 4,340  | 4 5  |
| 1524   | 5750                | 5 33                   |   |  | 5,770  | 6 30   | 5,650  | 6 30   | 5,550  | 6 3  | 5,430  | 6 3  | 5,200  | 6 1  | 4,840  | 5 6  |
| 1590   | 6000                | 5 80                   |   |  |  |  |  |  | 5,850  | 7 1  | 5,750  | 7 1  | 5,510  | 7 1  | 5,240  | 6 6  |
| 1658   | 6250                | 6 30                   |   |  |  |  |  |  | 6,150  | 7 9  | 6,050  | 7 9  | 5,820  | 7 9  | 5,600  | 7 8  |
| 1723   | 6500                | 6 81                   |   |  |  |  |  |  | 6,480  | 8 9  | 6,350  | 8 9  | 6,150  | 8 9  | 5,950  | 8 9  |
| 1790   | 6750                | 7 34                   |   |  |  |  |  |  | 6,776  | 10   | 6,670  | 10 0   | 6,470  | 10 0   | 6,270  | 10 0   |
| 1856   | 7000                | 7 89                   |   |  |  |  |  |  |  |  | 6,960  | 11 5   | 6,780  | 11 5   | 6,600  | 11 5   |
| 1990   | 7500                | 9 06                   |   |  |  |  |  |  |  |  |  |  | 7,400  | 14 0   | 7,200  | 14   |
| 2120   | 8000                | 10 32                  |   |  |  |  |  |  |  |  |  |  |  |  | 7,820  | 17   |
| 2258   | 8500                | 11 63                  |   |  |  |  |  |  |  |  |  |  |  |  | 8,450  | 20   |
| 1459   | 5500                | 4 88                   | 3,270   | 3 4  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1524   | 5750                | 5 33                   | 4,220   | 4 70   | 2,680  | 3 10   |  |  |  |  |  |  |  |  |  |  |
| 1590   | 6000                | 5 80                   | 4,820   | 6 0  | 4,020  | 4 90   |  |  |  |  |  |  |  |  |  |  |
| 1658   | 6250                | 6 30                   | 5,310   | 7 2  | 4,780  | 6 10   |  |  |  |  |  |  |  |  |  |  |
| 1723   | 6500                | 6 81                   | 5,700   | 8 6  | 5,320  | 7 60   | 3,560  | 5 20   |  |  |  |  |  |  |  |  |
| 1790   | 6750                | 7 34                   | 6,050   | 9 9  | 5,770  | 9 20   | 4,640  | 7 10   |  |  |  |  |  |  |  |  |
| 1856   | 7000                | 7 89                   | 6,410   | 11   | 6,160  | 10 50  | 5,360  | 8 70   |  |  |  |  |  |  |  |  |
| 1990   | 7500                | 9 06                   | 7,040   | 14   | 6,850  | 14 00  | 6,400  | 12 50  | 5,430  | 10 5   |  |  |  |  |  |  |
| 2120   | 8000                | 10 32                  | 7,640   | 17   | 7,500  | 17 00  | 7,100  | 16 00  | 6,630  | 14 5   | 5,500  | 12   |  |  |  |  |
| 2258   | 8500                | 11 63                  | 8,280   | 20   | 8,130  | 20 00  | 7,820  | 20 00  | 7,450  | 19 0   | 6,830  | 17   | 5,700  | 14   |  |  |
| 2380   | 9000                | 13 05                  | 8,900   | 24   | 8,750  | 24 00  | 8,500  | 24 00  | 8,120  | 23 5   | 7,780  | 22   | 7,140  | 20   | 6,000  | 10 5   |
| 2520   | 9500                | 14 53                  | 9,500   | 28   | 9,360  | 28 00  | 9,080  | 28 00  | 8,810  | 28   | 8,520  | 28   | 8,100  | 26   | 7,460  | 23 0   |
| 2650   | 10000               | 16 20                  |   |  | 9,950  | 33 00  | 9,720  | 33 00  | 9,480  | 33   | 9,180  | 33   | 8,900  | 32   | 8,510  | 30 0   |

Single Inlet

## No. 4 Multivane Fan — Design 2

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M. H. P. Static Pressure 1/2" Water .0722 oza. per sq. inch | Volume C.F.M. H. P. Static Pressure 1/2" Water .145 oza. per sq. inch | Volume C.F.M. H. P. Static Pressure 3/4" Water .217 oza. per sq. inch | Volume C.F.M. H. P. Static Pressure 1" Water .289 oza. per sq. inch | Volume C.F.M. H. P. Static Pressure 1 1/4" Water .361 oza. per sq. inch | Volume C.F.M. H. P. Static Pressure 1 1/2" Water .434 oza. per sq. inch | Volume C.F.M. H. P. Static Pressure 1 3/4" Water .506 oza. per sq. inch |
|--------|------------------|------------------|--|---|---|---|---|---|---|
| 231    | 1050             | 179              | 987 0 03   |   |   |   |   |   |   |
| 265    | 1200             | 233              | 1,500 0 07   |   |   |   |   |   |   |
| 309    | 1400             | 316              | 1,890 0 130  |   |   |   |   |   |   |
| 353    | 1600             | 412              | 2,260 0 18   | 1,860 0 16  |   |   |   |   |   |
| 397    | 1800             | 520              | 2,600 0 26   | 2,340 0 27  | 1,530 0 17  |   |   |   |   |
| 442    | 2000             | 615              |  | 2,730 0 38  | 2,400 0 33  |   |   |   |   |
| 486    | 2200             | 780              |  | 3,100 0 51  | 2,860 0 50  | 2,420 0 39  |   |   |   |
| 530    | 2400             | 930              |  | 3,470 0 66  | 3,230 0 66  | 2,990 0 60  | 2,440 0 48  |   |   |
| 573    | 2600             | 1 09             |  | 3,800 0 81  | 3,600 0 84  | 3,410 0 81  | 3,140 0 73  | 2,530 0 58  |   |
| 618    | 2800             | 1 26             |  |   | 3,970 1 0   | 3,780 1 0   | 3,600 1 0   | 3,300 0 89  | 2,660 0 71  |
| 662    | 3000             | 1 45             |  |   | 4,320 1 30  | 4,150 1 3   | 4,000 1 2   | 3,800 1 2   | 3,490 1 10  |
| 706    | 3200             | 1 65             |  |   | 4,670 1 5   | 4,500 1 5   | 4,370 1 5   | 4,200 1 5   | 4,020 1 4   |
| 750    | 3400             | 1 86             |  |   |   | 4,870 1 8   | 4,720 1 8   | 4,570 1 8   | 4,450 1 8   |
| 794    | 3600             | 2 10             |  |   |   | 5,210 2 2   | 5,070 2 2   | 4,940 2 2   | 4,810 2 2   |
| 838    | 3800             | 2 32             |  |   |   |   | 5,440 2 7   | 5,330 2 7   | 5,180 2 7   |
| 883    | 4000             | 2 58             |  |   |   |   | 5,770 3 0   | 5,680 3 0   | 5,540 3 0   |
| 927    | 4200             | 2 85             |  |   |   |   |   | 6,030 3 5   | 5,900 3 4   |
| 970    | 4400             | 3 13             |  |   |   |   |   | 6,360 4 0   | 6,250 4 0   |
| 1015   | 4600             | 3 41             |  |   |   |   |   |   | 6,620 4 6   |
| 1059   | 4800             | 3 70             |  |   |   |   |   |   | 6,970 5 3   |
| 662    | 3000             | 1 15             | 2,910 0 89   |   |   |   |   |   |   |
| 706    | 3200             | 1 65             | 3,710 1 3  |   |   |   |   |   |   |
| 750    | 3400             | 1 86             | 4,210 1 7  | 3,470 1 3   |   |   |   |   |   |
| 794    | 3600             | 2 10             | 4,680 2 2  | 4,210 1 9   | 3,160 1 4   |   |   |   |   |
| 838    | 3800             | 2 32             | 5,060 2 6  | 4,760 2 4   | 4,130 2 0   |   |   |   |   |
| 883    | 4000             | 2 58             | 5,400 3 0  | 5,160 2 9   | 4,750 2 6   | 4,000 2 1   |   |   |   |
| 927    | 4200             | 2 85             | 5,790 3 5  | 5,570 3 4   | 5,270 3 3   | 4,810 2 9   | 3,880 2 3   |   |   |
| 970    | 4400             | 3 13             | 6,180 4 0  | 5,940 4 0   | 5,710 3 9   | 5,380 3 6   | 4,830 3 2   |   |   |
| 1015   | 4600             | 3 41             | 6,530 4 6  | 6,330 4 6   | 6,100 4 6   | 5,890 4 3   | 5,480 4 0   | 3,650 2 6   |   |
| 1059   | 4800             | 3 70             | 6,860 5 3  | 6,670 5 3   | 6,470 5 3   | 6,300 5 2   | 5,970 4 8   | 4,870 3 8   |   |
| 1103   | 5000             | 4 05             | 7,210 6  | 7,030 6 0   | 6,850 6 0   | 6,640 6 0   | 6,400 5 8   | 5,660 4 8   | 3,720 3 2   |
| 1159   | 5250             | 4 44             |  | 7,470 7 0   | 7,300 7 0   | 7,100 7 0   | 6,910 6 8   | 6,400 6 1   | 5,330 4 9   |
| 1213   | 5500             | 4 88             |  | 7,900 7 9   | 7,750 7 9   | 7,540 7 9   | 7,380 7 9   | 7,010 7 5   | 6,290 6 5   |
| 1269   | 5750             | 5 33             |  | 8,340 9   | 8,160 9 0   | 8,030 9 0   | 7,850 9 1   | 7,530 8 9   | 7,010 8 1   |
| 1323   | 6000             | 5 80             |  |   | 8,640 10 5  | 8,460 10 5  | 8,300 10 0  | 8,000 10 0  | 7,580 9 6   |
| 1380   | 6250             | 6 30             |  |   |   | 8,890 11 5  | 8,760 11 5  | 8,440 11 5  | 8,110 11 5  |
| 1434   | 6500             | 6 81             |  |   |   | 9,360 13 0  | 9,190 13 0  | 8,890 13 0  | 8,530 13 0  |
| 1490   | 6750             | 7 34             |  |   |   | 9,770 14 5  | 9,640 14 5  | 9,360 14 5  | 9,080 14 5  |
| 1544   | 7000             | 7 89             |  |   |   |   | 10,100 16 5   | 9,820 16 5  | 9,550 16 5  |
| 1650   | 7500             | 9 06             |  |   |   |   |   | 10,700 20 0   | 10,400 20   |
| 1760   | 8000             | 10 32            |  |   |   |   |   |   | 11,300 25   |
| 1870   | 8500             | 11 63            |  |   |   |   |   |   | 12,210 29   |
| 1213   | 5500             | 4 88             | 4,740 4 9  |   |   |   |   |   |   |
| 1269   | 5750             | 5 33             | 6,100 6 8  | 3,880 4 5   |   |   |   |   |   |
| 1323   | 6000             | 5 80             | 6,980 8 7  | 5,810 7 1   |   |   |   |   |   |
| 1380   | 6250             | 6 30             | 7,700 10 5   | 6,910 8 9   |   |   |   |   |   |
| 1434   | 6500             | 6 81             | 8,260 12 5   | 7,710 11 0  | 5,150 7 5   |   |   |   |   |
| 1490   | 6750             | 7 34             | 8,760 14 5   | 8,350 13 5  | 6,710 10 5  |   |   |   |   |
| 1544   | 7000             | 7 89             | 9,260 16 0   | 8,900 15 5  | 7,770 12 5  |   |   |   |   |
| 1650   | 7500             | 9 06             | 10,200 20 0  | 9,920 20 0  | 9,240 18  | 7,850 15  |   |   |   |
| 1760   | 8000             | 10 32            | 11,100 25  | 10,900 24 5   | 10,400 23   | 9,600 21  | 7,870 17  |   |   |
| 1870   | 8500             | 11 63            | 12,000 29  | 11,800 29   | 11,300 29   | 10,800 27   | 9,880 24 5  | 8,250 20  |   |
| 1980   | 9000             | 13 05            | 12,900 35  | 12,700 35   | 12,300 35   | 11,800 34   | 11,300 32   | 10,300 29   | 8,690 24  |
| 2090   | 9500             | 14 53            | 13,800 41  | 13,600 41   | 13,100 41   | 12,600 41   | 12,300 40   | 11,700 37   | 10,800 33   |
| 2200   | 10000            | 16 20            |  | 14,400 48   | 14,100 48   | 13,700 48   | 13,300 48   | 12,900 46   | 12,300 43   |

Single Inlet

## No. 5 Multivane Fan — Design 2

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                   | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. |
|--------|------------------|------------------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|
|        |                  |                  | Static Pressure 1" Water .0722 ozs. per sq. inch    |       | Static Pressure 1 1/4" Water .145 ozs. per sq. inch |       | Static Pressure 1 1/2" Water .217 ozs. per sq. inch |       | Static Pressure 1 3/4" Water .289 ozs. per sq. inch |       | Static Pressure 2" Water .361 ozs. per sq. inch |       | Static Pressure 2 1/4" Water .434 ozs. per sq. inch |       | Static Pressure 2 1/2" Water .506 ozs. per sq. inch |       |
| 199    | 1050             | 179              | 1,330   | 0 050 |   |       |   |       |   |       |   |       |   |       |   |       |
| 227    | 1200             | 233              | 2,030   | 0 105 |   |       |   |       |   |       |   |       |   |       |   |       |
| 265    | 1400             | 316              | 2,550   | 0 175 |   |       |   |       |   |       |   |       |   |       |   |       |
| 303    | 1600             | 412              | 3,050   | 0 25  | 2,520   | 0 22  |   |       |   |       |   |       |   |       |   |       |
| 341    | 1800             | 520              | 3,510   | 0 35  | 3,160   | 0 365 | 2,070   | 0 23  |   |       |   |       |   |       |   |       |
| 379    | 2000             | 645              |   |       | 3,690   | 0 52  | 3,240   | 0 45  |   |       |   |       |   |       |   |       |
| 417    | 2200             | 780              |   |       | 4,180   | 0 69  | 3,860   | 0 67  | 3,260   | 0 54  |   |       |   |       |   |       |
| 455    | 2400             | 930              |   |       | 4,680   | 0 88  | 4,350   | 0 88  | 4,030   | 0 81  | 3,300   | 0 65  |   |       |   |       |
| 492    | 2600             | 1 09             |   |       | 5,130   | 1 15  | 4,850   | 1 15  | 4,600   | 1 10  | 4,240   | 0 99  | 3,410   | 0 78  |   |       |
| 530    | 2800             | 1 26             |   |       |   |       | 5,350   | 1 40  | 5,100   | 1 40  | 4,800   | 1 35  | 4,460   | 1 20  | 3,500   | 0 95  |
| 568    | 3000             | 1 45             |   |       |   |       | 5,820   | 1 75  | 5,600   | 1 75  | 5,400   | 1 70  | 5,130   | 1 65  | 4,700   | 1 45  |
| 606    | 3200             | 1 65             |   |       |   |       | 6,300   | 2 1   | 6,070   | 2 1   | 5,900   | 2 1   | 5,670   | 2 05  | 5,420   | 1 95  |
| 644    | 3400             | 1 86             |   |       |   |       |   |       | 6,570   | 2 5   | 6,370   | 2 5   | 6,170   | 2 50  | 6,010   | 2 50  |
| 682    | 3600             | 2 10             |   |       |   |       |   |       | 7,020   | 3     | 6,850   | 3 0   | 6,670   | 3 00  | 6,500   | 3 00  |
| 720    | 3800             | 2 32             |   |       |   |       |   |       |   |       | 7,350   | 3 5   | 7,200   | 3 50  | 7,000   | 3 50  |
| 758    | 4000             | 2 58             |   |       |   |       |   |       |   |       | 7,800   | 4 1   | 7,660   | 4 10  | 7,470   | 4 10  |
| 795    | 4200             | 2 85             |   |       |   |       |   |       |   |       |   |       | 8,150   | 4 75  | 7,960   | 4 75  |
| 833    | 4400             | 3 13             |   |       |   |       |   |       |   |       |   |       | 8,600   | 5 5   | 8,450   | 5 5   |
| 871    | 4600             | 3 41             |   |       |   |       |   |       |   |       |   |       |   |       | 8,950   | 6 3   |
| 908    | 4800             | 3 70             |   |       |   |       |   |       |   |       |   |       |   |       | 9,410   | 7 1   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 ozs. per sq. inch     |       | Static Pressure 1 1/4" Water .723 ozs. per sq. inch |       | Static Pressure 1 1/2" Water .878 ozs. per sq. inch |       | Static Pressure 1 3/4" Water 1.01 ozs. per sq. inch |       | Static Pressure 2" Water 1.16 ozs. per sq. inch |       | Static Pressure 2 1/4" Water 1.45 ozs. per sq. inch |       | Static Pressure 2 1/2" Water 1.73 ozs. per sq. inch |       |
| 568    | 3000             | 1 45             | 3,920   | 1 20  |   |       |   |       |   |       |   |       |   |       |   |       |
| 606    | 3200             | 1 65             | 5,000   | 1 75  |   |       |   |       |   |       |   |       |   |       |   |       |
| 644    | 3400             | 1 86             | 5,720   | 2 30  | 4,680   | 1 80  |   |       |   |       |   |       |   |       |   |       |
| 682    | 3600             | 2 10             | 6,320   | 2 95  | 5,690   | 2 55  | 4,270   | 1 90  |   |       |   |       |   |       |   |       |
| 720    | 3800             | 2 32             | 6,830   | 3 50  | 6,420   | 3 25  | 5,580   | 2 75  |   |       |   |       |   |       |   |       |
| 758    | 4000             | 2 58             | 7,290   | 4 10  | 6,970   | 4 0   | 6,420   | 3 6   | 5,400   | 2 90  |   |       |   |       |   |       |
| 795    | 4200             | 2 85             | 7,810   | 4 75  | 7,500   | 4 7   | 7,120   | 4 5   | 6,500   | 3 95  | 5,230   | 3 15  |   |       |   |       |
| 833    | 4400             | 3 13             | 8,350   | 5 5   | 8,010   | 5 5   | 7,710   | 5 4   | 7,270   | 4 9   | 6,510   | 4 3   |   |       |   |       |
| 871    | 4600             | 3 41             | 8,810   | 6 3   | 8,550   | 6 3   | 8,250   | 6 2   | 7,940   | 6 0   | 7,400   | 5 4   | 4,930   | 3 55  |   |       |
| 908    | 4800             | 3 70             | 9,260   | 7 1   | 9,000   | 7 1   | 8,740   | 7 1   | 8,500   | 6 9   | 8,060   | 6 5   | 6,570   | 5 1   |   |       |
| 947    | 5000             | 4 05             | 9,730   | 8 1   | 9,500   | 8 1   | 9,250   | 8 1   | 8,960   | 8 1   | 8,650   | 7 8   | 7,650   | 6 6   | 5,020   | 4 35  |
| 994    | 5250             | 4 41             |   |       | 10,100  | 9 4   | 9,850   | 9 4   | 9,590   | 9 4   | 9,350   | 9 2   | 8,650   | 8 2   | 7,200   | 6 7   |
| 1042   | 5500             | 4 88             |   |       | 10,700  | 10 5  | 10,500  | 10 5  | 10,200  | 10 5  | 9,960   | 10 5  | 9,460   | 10 0  | 8,500   | 8 8   |
| 1090   | 5750             | 5 33             |   |       | 11,300  | 12    | 11,000  | 12    | 10,800  | 12 0  | 10,600  | 12 0  | 10,200  | 12 0  | 9,400   | 11 0  |
| 1136   | 6000             | 5 80             |   |       |   |       | 11,700  | 14    |   |       | 11,400  | 14 0  | 10,800  | 14 0  | 10,200  | 13 0  |
| 1183   | 6250             | 6 30             |   |       |   |       |   |       |   |       | 12,000  | 15 5  | 11,800  | 15 5  | 11,000  | 15 5  |
| 1230   | 6500             | 6 81             |   |       |   |       |   |       |   |       | 12,600  | 17 5  | 12,400  | 17 5  | 11,600  | 17 5  |
| 1278   | 6750             | 7 34             |   |       |   |       |   |       |   |       | 13,200  | 20    | 13,000  | 20    | 12,300  | 20    |
| 1325   | 7000             | 7 89             |   |       |   |       |   |       |   |       |   |       | 13,600  | 22    | 12,900  | 22    |
| 1420   | 7500             | 9 06             |   |       |   |       |   |       |   |       |   |       | 14,400  | 27    | 14,100  | 27    |
| 1514   | 8000             | 10 32            |   |       |   |       |   |       |   |       |   |       |   |       | 15,300  | 33    |
| 1610   | 8500             | 11 63            |   |       |   |       |   |       |   |       |   |       |   |       | 16,500  | 40    |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 3 1/2" Water 2.02 ozs. per sq. inch |       | Static Pressure 4" Water 2.31 ozs. per sq. inch     |       | Static Pressure 5" Water 2.89 ozs. per sq. inch     |       | Static Pressure 6" Water 3.47 ozs. per sq. inch     |       | Static Pressure 7" Water 4.05 ozs. per sq. inch |       | Static Pressure 8" Water 4.63 ozs. per sq. inch     |       | Static Pressure 9" Water 5.2 ozs. per sq. inch      |       |
| 1042   | 5500             | 4 88             | 6,400   | 6 6   |   |       |   |       |   |       |   |       |   |       |   |       |
| 1090   | 5750             | 5 33             | 8,250   | 9 2   | 5,220   | 6 1   |   |       |   |       |   |       |   |       |   |       |
| 1136   | 6000             | 5 80             | 9,410   | 11 5  | 7,850   | 9 6   |   |       |   |       |   |       |   |       |   |       |
| 1183   | 6250             | 6 30             | 10,400  | 14    | 9,350   | 12    |   |       |   |       |   |       |   |       |   |       |
| 1230   | 6500             | 6 81             | 11,200  | 17    | 10,400  | 15    | 6,950   | 10 0  |   |       |   |       |   |       |   |       |
| 1278   | 6750             | 7 34             | 11,800  | 19    | 11,300  | 18    | 9,060   | 14 0  |   |       |   |       |   |       |   |       |
| 1325   | 7000             | 7 89             | 12,500  | 22    | 12,100  | 21    | 10,500  | 17 0  |   |       |   |       |   |       |   |       |
| 1420   | 7500             | 9 06             | 13,800  | 27    | 13,400  | 27    | 12,500  | 24 5  | 10,600  | 20    |   |       |   |       |   |       |
| 1514   | 8000             | 10 32            | 14,900  | 33    | 14,700  | 33    | 14,000  | 31    | 13,000  | 29    | 10,800  | 23    |   |       |   |       |
| 1610   | 8500             | 11 63            | 16,200  | 40    | 15,900  | 40    | 15,300  | 39    | 14,600  | 37    | 13,300  | 33    | 11,100  | 27    |   |       |
| 1700   | 9000             | 13 05            | 17,400  | 47    | 17,100  | 47    | 16,600  | 47    | 15,900  | 46    | 15,200  | 43    | 13,900  | 39    | 11,700  | 32    |
| 1795   | 9500             | 14 53            | 18,600  | 56    | 18,300  | 56    | 17,700  | 56    | 17,200  | 56    | 16,600  | 54    | 15,800  | 50    | 14,600  | 45    |
| 1894   | 10000            | 16 20            |   |       | 19,500  | 64    | 19,000  | 64    | 18,500  | 64    | 17,900  | 64    | 17,400  | 62    | 16,600  | 58    |

Single Inlet

## No. 4 Multivane Fan — Design 2

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M. H. P. Static Pressure 1/2" Water .0722 oza. per sq. inch | Volume C.F.M. H. P. Static Pressure 1/2" Water .145 oza. per sq. inch | Volume C.F.M. H. P. Static Pressure 1/2" Water .217 oza. per sq. inch | Volume C.F.M. H. P. Static Pressure 1/2" Water .289 oza. per sq. inch | Volume C.F.M. H. P. Static Pressure 1/2" Water .361 oza. per sq. inch | Volume C.F.M. H. P. Static Pressure 1/2" Water .434 oza. per sq. inch | Volume C.F.M. H. P. Static Pressure 1/2" Water .506 oza. per sq. inch |
|--------|------------------|------------------|--|---|---|---|---|---|---|
| 231    | 1050             | 179              | 987 0 03   |   |   |   |   |   |   |
| 265    | 1200             | 233              | 1,500 0 07   |   |   |   |   |   |   |
| 309    | 1400             | 316              | 1,890 0 130  |   |   |   |   |   |   |
| 353    | 1600             | 412              | 2,260 0 18   | 1,860 0 16  |   |   |   |   |   |
| 397    | 1800             | 520              | 2,600 0 26   | 2,340 0 27  | 1,530 0 17  |   |   |   |   |
| 442    | 2000             | 615              |  | 2,730 0 38  | 2,400 0 33  |   |   |   |   |
| 486    | 2200             | 780              |  | 3,100 0 51  | 2,860 0 50  | 2,420 0 39  |   |   |   |
| 530    | 2400             | 930              |  | 3,470 0 66  | 3,230 0 66  | 2,990 0 60  | 2,440 0 48  |   |   |
| 573    | 2600             | 1 09             |  | 3,800 0 81  | 3,600 0 84  | 3,410 0 81  | 3,140 0 73  | 2,530 0 58  |   |
| 618    | 2800             | 1 26             |  |   | 3,970 1 0   | 3,780 1 0   | 3,600 1 0   | 3,300 0 89  | 2,660 0 71  |
| 662    | 3000             | 1 45             |  |   | 4,320 1 30  | 4,150 1 3   | 4,000 1 2   | 3,800 1 2   | 3,490 1 10  |
| 706    | 3200             | 1 65             |  |   | 4,670 1 5   | 4,500 1 5   | 4,370 1 5   | 4,200 1 5   | 4,020 1 4   |
| 750    | 3400             | 1 86             |  |   |   | 4,870 1 8   | 4,720 1 8   | 4,570 1 8   | 4,450 1 8   |
| 794    | 3600             | 2 10             |  |   |   | 5,210 2 2   | 5,070 2 2   | 4,940 2 2   | 4,810 2 2   |
| 838    | 3800             | 2 32             |  |   |   |   | 5,440 2 7   | 5,330 2 7   | 5,180 2 7   |
| 883    | 4000             | 2 58             |  |   |   |   | 5,770 3 0   | 5,680 3 0   | 5,540 3 0   |
| 927    | 4200             | 2 85             |  |   |   |   |   | 6,030 3 5   | 5,900 3 4   |
| 970    | 4400             | 3 13             |  |   |   |   |   | 6,360 4 0   | 6,250 4 0   |
| 1015   | 4600             | 3 41             |  |   |   |   |   |   | 6,620 4 6   |
| 1059   | 4800             | 3 70             |  |   |   |   |   |   | 6,970 5 3   |
|        |                  |                  |  |   |   |   |   |   |   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1 1/2" Water .578 oza. per sq. inch                    | Static Pressure 1 1/2" Water .723 oza. per sq. inch                   | Static Pressure 1 1/2" Water .878 oza. per sq. inch                   | Static Pressure 1 1/2" Water 1.01 oza. per sq. inch                   | Static Pressure 2" Water 1.16 oza. per sq. inch                       | Static Pressure 2 1/2" Water 1.45 oza. per sq. inch                   | Static Pressure 3" Water 1.73 oza. per sq. inch                       |
| 662    | 3000             | 1 15             | 2,910 0 89   |   |   |   |   |   |   |
| 706    | 3200             | 1 65             | 3,710 1 3  |   |   |   |   |   |   |
| 750    | 3400             | 1 86             | 4,240 1 7  | 3,470 1 3   |   |   |   |   |   |
| 794    | 3600             | 2 10             | 4,680 2 2  | 4,210 1 9   | 3,160 1 4   |   |   |   |   |
| 838    | 3800             | 2 32             | 5,060 2 6  | 4,760 2 4   | 4,130 2 0   |   |   |   |   |
| 883    | 4000             | 2 58             | 5,400 3 0  | 5,160 2 9   | 4,750 2 6   | 4,000 2 1   |   |   |   |
| 927    | 4200             | 2 85             | 5,790 3 5  | 5,570 3 4   | 5,270 3 3   | 4,810 2 9   | 3,880 2 3   |   |   |
| 970    | 4400             | 3 13             | 6,180 4 0  | 5,940 4 0   | 5,710 3 9   | 5,380 3 6   | 4,830 3 2   |   |   |
| 1015   | 4600             | 3 41             | 6,530 4 6  | 6,330 4 6   | 6,100 4 6   | 5,890 4 3   | 5,480 4 0   | 3,650 2 6   |   |
| 1059   | 4800             | 3 70             | 6,860 5 3  | 6,670 5 3   | 6,470 5 3   | 6,300 5 2   | 5,970 4 8   | 4,870 3 8   |   |
| 1103   | 5000             | 4 05             | 7,210 6  | 7,030 6 0   | 6,850 6 0   | 6,640 6 0   | 6,400 5 8   | 5,660 4 8   | 3,720 3 2   |
| 1159   | 5250             | 4 44             |  | 7,470 7 0   | 7,300 7 0   | 7,100 7 0   | 6,910 6 8   | 6,400 6 1   | 5,330 4 9   |
| 1213   | 5500             | 4 88             |  | 7,900 7 9   | 7,750 7 9   | 7,540 7 9   | 7,380 7 9   | 7,010 7 5   | 6,290 6 5   |
| 1269   | 5750             | 5 33             |  | 8,340 9   | 8,160 9 0   | 8,030 9 0   | 7,850 9 1   | 7,530 8 9   | 7,010 8 1   |
| 1323   | 6000             | 5 80             |  |   | 8,640 10 5  | 8,460 10 5  | 8,300 10 0  | 8,000 10 0  | 7,580 9 6   |
| 1380   | 6250             | 6 30             |  |   |   | 8,890 11 5  | 8,760 11 5  | 8,440 11 5  | 8,110 11 5  |
| 1434   | 6500             | 6 81             |  |   |   | 9,360 13 0  | 9,190 13 0  | 8,890 13 0  | 8,530 13 0  |
| 1490   | 6750             | 7 34             |  |   |   | 9,770 14 5  | 9,640 14 5  | 9,360 14 5  | 9,080 14 5  |
| 1544   | 7000             | 7 89             |  |   |   |   | 10,100 16 5   | 9,820 16 5  | 9,550 16 5  |
| 1650   | 7500             | 9 06             |  |   |   |   |   | 10,700 20 0   | 10,400 20   |
| 1760   | 8000             | 10 32            |  |   |   |   |   |   | 11,300 25   |
| 1870   | 8500             | 11 63            |  |   |   |   |   |   | 12,210 29   |
|        |                  |                  |  |   |   |   |   |   |   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 3 1/2" Water 2.02 oza. per sq. inch                    | Static Pressure 4" Water 2.31 oza. per sq. inch                       | Static Pressure 5" Water 2.89 oza. per sq. inch                       | Static Pressure 6" Water 3.47 oza. per sq. inch                       | Static Pressure 7" Water 4.05 oza. per sq. inch                       | Static Pressure 8" Water 4.63 oza. per sq. inch                       | Static Pressure 9" Water 5.2 oza. per sq. inch                        |
| 1213   | 5500             | 4 88             | 4,740 4 9  |   |   |   |   |   |   |
| 1269   | 5750             | 5 33             | 6,100 6 8  | 3,880 4 5   |   |   |   |   |   |
| 1323   | 6000             | 5 80             | 6,980 8 7  | 5,810 7 1   |   |   |   |   |   |
| 1380   | 6250             | 6 30             | 7,700 10 5   | 6,910 8 9   |   |   |   |   |   |
| 1434   | 6500             | 6 81             | 8,260 12 5   | 7,710 11 0  | 5,150 7 5   |   |   |   |   |
| 1490   | 6750             | 7 34             | 8,760 14 5   | 8,350 13 5  | 6,710 10 5  |   |   |   |   |
| 1544   | 7000             | 7 89             | 9,260 16 0   | 8,900 15 5  | 7,770 12 5  |   |   |   |   |
| 1650   | 7500             | 9 06             | 10,200 20 0  | 9,920 20 0  | 9,240 18  | 7,850 15  |   |   |   |
| 1760   | 8000             | 10 32            | 11,100 25  | 10,900 24 5   | 10,400 23   | 9,600 21  | 7,870 17  |   |   |
| 1870   | 8500             | 11 63            | 12,000 29  | 11,800 29   | 11,300 29   | 10,800 27   | 9,880 24 5  | 8,250 20  |   |
| 1980   | 9000             | 13 05            | 12,900 35  | 12,700 35   | 12,300 35   | 11,800 34   | 11,300 32   | 10,300 29   | 8,690 24  |
| 2090   | 9500             | 14 53            | 13,800 41  | 13,600 41   | 13,100 41   | 12,600 41   | 12,300 40   | 11,700 37   | 10,800 33   |
| 2200   | 10000            | 16 20            |  | 14,400 48   | 14,100 48   | 13,700 48   | 13,300 48   | 12,900 46   | 12,300 43   |

Single Inlet

## No. 6½ Multivane Fan—Design 2

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed<br>F.P.M. | S.N.D.<br>in<br>inches | Volume<br>C.F.M.  | H. P.   | Volume<br>C.F.M.   | H. P.   | Volume<br>C.F.M.   | H. P.   | Volume<br>C.F.M.   | H. P.   | Volume<br>C.F.M.   | H. P.   | Volume<br>C.F.M.   | H. P.   | Volume<br>C.F.M.   | H. P.   |
|--------|---------------------|------------------------|---|---|--|---|--|---|--|---|--|---|--|---|--|---|
|        |                     |                        | Static Pressure<br>1" Water<br>.0722 ozs. per<br>sq. inch | Static Pressure<br>1½" Water<br>.145 ozs. per<br>sq. inch | Static Pressure<br>2" Water<br>.217 ozs. per<br>sq. inch | Static Pressure<br>2½" Water<br>.289 ozs. per<br>sq. inch | Static Pressure<br>3" Water<br>.361 ozs. per<br>sq. inch | Static Pressure<br>3½" Water<br>.434 ozs. per<br>sq. inch | Static Pressure<br>4" Water<br>.506 ozs. per<br>sq. inch | Static Pressure<br>4½" Water<br>.578 ozs. per<br>sq. inch | Static Pressure<br>5" Water<br>.650 ozs. per<br>sq. inch | Static Pressure<br>5½" Water<br>.723 ozs. per<br>sq. inch | Static Pressure<br>6" Water<br>.795 ozs. per<br>sq. inch | Static Pressure<br>6½" Water<br>.868 ozs. per<br>sq. inch | Static Pressure<br>7" Water<br>.940 ozs. per<br>sq. inch | Static Pressure<br>7½" Water<br>.1.013 ozs. per<br>sq. inch |
| 154    | 1050                | 179                    | 2,220   | 0.085   |  |   |  |   |  |   |  |   |  |   |  |   |
| 177    | 1200                | 233                    | 3,410   | 0.170   |  |   |  |   |  |   |  |   |  |   |  |   |
| 206    | 1400                | 316                    | 4,290   | 0.295   |  |   |  |   |  |   |  |   |  |   |  |   |
| 236    | 1600                | 412                    | 5,130   | 0.42  | 4,230  | 0.37  |  |   |  |   |  |   |  |   |  |   |
| 265    | 1800                | 520                    | 5,900   | 0.61  | 5,310  | 0.61  | 3,480  | 0.385   |  |   |  |   |  |   |  |   |
| 294    | 2000                | 645                    |   |   | 6,190  | 0.87  | 5,440  | 0.75  |  |   |  |   |  |   |  |   |
| 324    | 2200                | 780                    |   |   | 7,040  | 1.15  | 6,490  | 1.15  | 5,480  | 0.90  |  |   |  |   |  |   |
| 354    | 2400                | 930                    |   |   | 7,860  | 1.5   | 7,330  | 1.50  | 6,780  | 1.35  | 5,550  | 1.10  |  |   |  |   |
| 383    | 2600                | 1 09                   |   |   | 8,620  | 1.9   | 8,160  | 1.90  | 7,750  | 1.85  | 7,120  | 1.65  | 5,730  | 1.30  |  |   |
| 412    | 2800                | 1 26                   |   |   |  |   | 9,000  | 2.35  | 8,580  | 2.35  | 8,180  | 2.25  | 7,490  | 2.00  | 6,040  | 1.60  |
| 442    | 3000                | 1 45                   |   |   |  |   | 9,700  | 2.90  | 9,410  | 2.90  | 9,060  | 2.90  | 8,630  | 2.75  | 7,910  | 2.45  |
| 472    | 3200                | 1 65                   |   |   |  |   | 10,600   | 3.55  | 10,200   | 3.55  | 9,910  | 3.55  | 9,540  | 3.5   | 9,120  | 3.25  |
| 500    | 3400                | 1 86                   |   |   |  |   |  |   | 11,100   | 4.2   | 10,700   | 4.2   | 10,400   | 4.2   | 10,100   | 4.2   |
| 530    | 3600                | 2 10                   |   |   |  |   |  |   | 11,800   | 5.  | 11,500   | 5.0   | 11,200   | 5.1   | 10,900   | 5.0   |
| 558    | 3800                | 2 32                   |   |   |  |   |  |   | 12,400   | 5.9   | 12,100   | 5.9   | 11,800   | 5.9   | 11,500   | 5.9   |
| 590    | 4000                | 2 58                   |   |   |  |   |  |   | 13,100   | 6.9   | 12,800   | 6.9   | 12,500   | 6.9   | 12,200   | 6.9   |
| 619    | 4200                | 2 85                   |   |   |  |   |  |   |  |   | 13,700   | 8.0   | 13,400   | 8.0   | 13,100   | 8.0   |
| 648    | 4400                | 3 13                   |   |   |  |   |  |   |  |   | 14,400   | 9.2   | 14,100   | 9.2   | 13,800   | 9.2   |
| 677    | 4600                | 3 41                   |   |   |  |   |  |   |  |   |  |   | 15,000   | 10.5  | 14,700   | 10.5  |
| 707    | 4800                | 3 70                   |   |   |  |   |  |   |  |   |  |   | 15,800   | 12  | 15,500   | 12  |
| 412    | 3000                | 1 45                   | 6,590   | 2.00  |  |   |  |   |  |   |  |   |  |   |  |   |
| 472    | 3200                | 1 65                   | 8,410   | 2.95  |  |   |  |   |  |   |  |   |  |   |  |   |
| 500    | 3400                | 1 86                   | 9,620   | 3.90  | 7,870  | 3.05  |  |   |  |   |  |   |  |   |  |   |
| 530    | 3600                | 2 10                   | 10,600  | 4.95  | 9,560  | 4.25  | 7,180  | 3.2   |  |   |  |   |  |   |  |   |
| 558    | 3800                | 2 32                   | 11,500  | 5.9   | 10,800   | 5.5   | 9,380  | 4.6   |  |   |  |   |  |   |  |   |
| 590    | 4000                | 2 58                   | 12,300  | 6.9   | 11,700   | 6.7   | 10,800   | 6.0   | 9,080  | 4.9   |  |   |  |   |  |   |
| 619    | 4200                | 2 85                   | 13,100  | 8.0   | 12,600   | 7.9   | 12,000   | 7.5   | 10,900   | 6.6   | 8,790  | 5.3   |  |   |  |   |
| 648    | 4400                | 3 13                   | 14,000  | 9.2   | 13,500   | 9.2   | 13,000   | 9.0   | 12,200   | 8.3   | 11,000   | 7.2   |  |   |  |   |
| 677    | 4600                | 3 41                   | 14,800  | 10.5  | 14,400   | 10.5  | 13,900   | 10.5  | 13,400   | 10.0  | 12,400   | 9.1   | 8,290  | 6.0   |  |   |
| 707    | 4800                | 3 70                   | 15,600  | 12.0  | 15,100   | 12.0  | 14,700   | 12.0  | 14,300   | 11.5  | 13,600   | 11.0  | 11,100   | 8.6   |  |   |
| 736    | 5000                | 4 05                   | 16,400  | 13.5  | 15,900   | 13.5  | 15,500   | 13.5  | 15,100   | 13.5  | 14,500   | 13.0  | 12,900   | 11  | 8,430  | 7.3   |
| 774    | 5250                | 4 44                   |   |   | 17,000   | 16.0  | 16,600   | 16.0  | 16,100   | 16.0  | 15,700   | 15.5  | 14,500   | 14  | 12,100   | 11.0  |
| 810    | 5500                | 4 88                   |   |   | 17,900   | 18.0  | 17,600   | 18.0  | 17,100   | 18.0  | 16,700   | 18.0  | 15,900   | 17  | 14,300   | 15.0  |
| 847    | 5750                | 5 33                   |   |   | 18,900   | 20.5  | 18,500   | 20.5  | 18,200   | 20.5  | 17,800   | 20.5  | 17,100   | 20  | 15,900   | 18.5  |
| 885    | 6000                | 5 80                   |   |   |  |   | 19,600   | 23  | 19,200   | 23  | 18,800   | 23  | 18,100   | 23  | 17,200   | 22  |
| 920    | 6250                | 6 30                   |   |   |  |   |  |   | 20,200   | 26  | 19,900   | 26  | 19,200   | 26  | 18,400   | 26  |
| 957    | 6500                | 6 81                   |   |   |  |   |  |   | 21,200   | 30  | 20,800   | 30  | 20,200   | 30  | 19,600   | 29  |
| 995    | 6750                | 7 34                   |   |   |  |   |  |   | 22,200   | 33  | 21,900   | 33  | 21,200   | 33  | 20,600   | 33  |
| 1030   | 7000                | 7 89                   |   |   |  |   |  |   |  |   | 22,800   | 37  | 22,300   | 37  | 21,700   | 37  |
| 1098   | 7500                | 9 06                   |   |   |  |   |  |   |  |   |  |   | 24,300   | 46  | 23,700   | 46  |
| 1170   | 8000                | 10 32                  |   |   |  |   |  |   |  |   |  |   |  |   | 25,700   | 56  |
| 1244   | 8500                | 11 63                  |   |   |  |   |  |   |  |   |  |   |  |   | 27,700   | 66  |
| 810    | 5500                | 4 88                   | 10,800  | 11.0  |  |   |  |   |  |   |  |   |  |   |  |   |
| 847    | 5750                | 5 33                   | 13,900  | 15.5  | 8,790  | 10.   |  |   |  |   |  |   |  |   |  |   |
| 885    | 6000                | 5 80                   | 15,800  | 19.5  | 13,200   | 16.   |  |   |  |   |  |   |  |   |  |   |
| 920    | 6250                | 6 30                   | 17,500  | 24  | 15,700   | 20.   |  |   |  |   |  |   |  |   |  |   |
| 957    | 6500                | 6 81                   | 18,800  | 28  | 17,500   | 25  |  |   |  |   |  |   |  |   |  |   |
| 995    | 6750                | 7 34                   | 19,900  | 32  | 18,900   | 30.   | 11,700   | 17.0  |  |   |  |   |  |   |  |   |
| 1030   | 7000                | 7 89                   | 21,000  | 37  | 20,200   | 35.   | 15,200   | 23.5  |  |   |  |   |  |   |  |   |
| 1098   | 7500                | 9 06                   | 23,100  | 46  | 22,500   | 45.   | 17,600   | 28  |  |   |  |   |  |   |  |   |
| 1170   | 8000                | 10 32                  | 25,100  | 56  | 24,700   | 50.   | 21,000   | 41.   | 17,800   | 34  |  |   |  |   |  |   |
| 1244   | 8500                | 11 63                  | 27,200  | 66  | 26,700   | 66.   | 23,500   | 52.   | 21,800   | 48.   | 18,100   | 39.   |  |   |  |   |
| 318    | 9000                | 13 05                  | 29,200  | 80  | 28,700   | 80  | 25,700   | 66  | 24,500   | 62.   | 22,400   | 56.   | 18,700   | 46.   |  |   |
| 390    | 9500                | 14 53                  | 31,200  | 92  | 30,800   | 92.   | 27,900   | 80.   | 26,700   | 78.   | 25,500   | 72.   | 23,400   | 66.   | 19,700   | 54.   |
| 463    | 10000               | 16 20                  |   |   | 32,800   | 110   | 29,800   | 92.   | 29,000   | 92.   | 28,000   | 90.   | 26,600   | 84.   | 24,500   | 76.   |
|        |                     |                        |   |   |  |   | 31,900   | 110   | 31,100   | 110   | 30,100   | 110   | 29,200   | 105   | 28,000   | 98.   |

Single Inlet

## No. 7 Multivane Fan — Design 2

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                     | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                     | H. P. |
|--------|------------------|------------------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|
|        |                  |                  | Static Pressure 1/8" Water .0722 ozs. per sq. inch  |       | Static Pressure 1/4" Water .145 ozs. per sq. inch   |       | Static Pressure 3/8" Water .217 ozs. per sq. inch   |       | Static Pressure 1/2" Water .289 ozs. per sq. inch   |       | Static Pressure 5/8" Water .361 ozs. per sq. inch |       | Static Pressure 3/4" Water .434 ozs. per sq. inch   |       | Static Pressure 7/8" Water .506 ozs. per sq. inch |       |
| 141    | 1050             | 179              | 2,730   | 0 10  |   |       |   |       |   |       |   |       |   |       |   |       |
| 150    | 1200             | 233              | 4,150   | 0 21  |   |       |   |       |   |       |   |       |   |       |   |       |
| 186    | 1100             | 316              | 5,230   | 0 36  |   |       |   |       |   |       |   |       |   |       |   |       |
| 212    | 1609             | 412              | 6,250   | 0 51  | 5,150   | 0 455 |   |       |   |       |   |       |   |       |   |       |
| 239    | 1800             | 520              | 7,200   | 0 74  | 6,480   | 0 74  | 4,230   | 0 47  |   |       |   |       |   |       |   |       |
| 265    | 2000             | 645              |   |       | 7,550   | 1 05  | 6,630   | 0 92  |   |       |   |       |   |       |   |       |
| 292    | 2200             | 780              |   |       | 8,560   | 1 4   | 7,810   | 1 40  | 6,680   | 1 10  |   |       |   |       |   |       |
| 318    | 2400             | 930              |   |       | 9,580   | 1 8   | 7,910   | 1 80  | 8,260   | 1 65  | 6,760   | 1 35  |   |       |   |       |
| 345    | 2600             | 1 09             |   |       | 10,500  | 2 3   | 9,950   | 2 30  | 9,450   | 2 25  | 8,670   | 2 05  | 7,000   | 1 60  |   |       |
| 371    | 2800             | 1 26             |   |       |   |       | 11,000  | 2 90  | 10,500  | 2 90  | 9,980   | 2 75  | 9,130   | 2 45  | 7,360   | 1 95  |
| 398    | 3000             | 1 45             |   |       |   |       | 11,900  | 3 55  | 11,500  | 3 55  | 11,080  | 3 50  | 10,500  | 3 35  | 9,640   | 3 0   |
| 424    | 3200             | 1 65             |   |       |   |       | 12,900  | 4 35  | 12,500  | 4 35  | 12,100  | 4 35  | 11,600  | 4 25  | 11,100  | 4 0   |
| 451    | 3400             | 1 86             |   |       |   |       |   |       | 13,500  | 5 1   | 13,100  | 5 1   | 12,700  | 5 1   | 12,300  | 5 1   |
| 478    | 3600             | 2 10             |   |       |   |       |   |       | 14,400  | 6 2   | 14,000  | 6 2   | 13,700  | 6 2   | 13,300  | 6 1   |
| 504    | 3800             | 2 32             |   |       |   |       |   |       |   |       | 15,000  | 7 4   | 14,700  | 7 4   | 14,300  | 7 4   |
| 530    | 4000             | 2 58             |   |       |   |       |   |       |   |       | 16,000  | 8 4   | 15,700  | 8 4   | 15,300  | 8 4   |
| 557    | 4200             | 2 85             |   |       |   |       |   |       |   |       |   |       | 16,700  | 9 7   | 16,300  | 9 7   |
| 584    | 4400             | 3 13             |   |       |   |       |   |       |   |       |   |       | 17,600  | 11    | 17,300  | 11 0  |
| 610    | 4600             | 3 41             |   |       |   |       |   |       |   |       |   |       |   |       | 18,300  | 13 0  |
| 637    | 4800             | 3 70             |   |       |   |       |   |       |   |       |   |       |   |       | 19,300  | 14 5  |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 ozs. per sq. inch     |       | Static Pressure 1 1/4" Water .723 ozs. per sq. inch |       | Static Pressure 1 1/2" Water .878 ozs. per sq. inch |       | Static Pressure 1 3/4" Water 1.01 ozs. per sq. inch |       | Static Pressure 2" Water 1.16 ozs. per sq. inch   |       | Static Pressure 2 1/2" Water 1.45 ozs. per sq. inch |       | Static Pressure 3" Water 1.73 ozs. per sq. inch   |       |
| 398    | 3000             | 1 45             | 8,030   | 2 45  |   |       |   |       |   |       |   |       |   |       |   |       |
| 424    | 3200             | 1 65             | 10,300  | 3 60  |   |       |   |       |   |       |   |       |   |       |   |       |
| 451    | 3400             | 1 86             | 11,700  | 4 75  | 9,600   | 3 75  |   |       |   |       |   |       |   |       |   |       |
| 478    | 3600             | 2 10             | 13,000  | 6 0   | 11,000  | 5 2   | 8,750   | 3 9   |   |       |   |       |   |       |   |       |
| 504    | 3800             | 2 32             | 14,000  | 7 1   | 13,200  | 6 6   | 11,400  | 5 6   |   |       |   |       |   |       |   |       |
| 530    | 4000             | 2 58             | 14,900  | 8 4   | 14,300  | 8 2   | 13,200  | 7 3   | 11,100  | 6 0   |   |       |   |       |   |       |
| 557    | 4200             | 2 85             | 16,000  | 9 7   | 15,400  | 9 6   | 14,600  | 9 2   | 13,300  | 8 1   | 10,700  | 6 4   |   |       |   |       |
| 584    | 4400             | 3 13             | 17,100  | 11 0  | 16,400  | 11 0  | 15,800  | 11 0  | 14,900  | 10 0  | 13,400  | 8 8   |   |       |   |       |
| 610    | 4600             | 3 41             | 18,100  | 13 0  | 17,500  | 13 0  | 16,900  | 12 5  | 16,300  | 12 0  | 15,100  | 11 0  | 10,100  | 7 3   |   |       |
| 637    | 4800             | 3 70             | 19,000  | 14 5  | 18,400  | 14 5  | 17,900  | 14 5  | 17,400  | 14 0  | 16,500  | 13 5  | 15,500  | 10 5  |   |       |
| 663    | 5000             | 4 05             | 20,000  | 16 5  | 19,400  | 16 5  | 19,000  | 16 5  | 18,400  | 16 5  | 17,900  | 16    | 16,700  | 13 5  | 10,300  | 8 9   |
| 697    | 5250             | 4 44             |   |       | 20,700  | 19 5  | 20,200  | 19 5  | 19,700  | 19 5  | 19,100  | 19    | 17,700  | 17 0  | 14,700  | 13 5  |
| 730    | 5500             | 4 88             |   |       | 21,800  | 22    | 21,400  | 22    | 20,900  | 22    | 20,400  | 22    | 19,400  | 20 5  | 17,400  | 18 0  |
| 763    | 5750             | 5 33             |   |       | 23,000  | 25    | 22,600  | 25    | 22,200  | 25    | 21,700  | 25    | 20,800  | 24 5  | 19,400  | 22 5  |
| 796    | 6000             | 5 80             |   |       |   |       | 24,000  | 28    | 23,400  | 28    | 23,000  | 28    | 22,100  | 28    | 21,000  | 27    |
| 829    | 6250             | 6 30             |   |       |   |       |   |       | 24,600  | 32    | 24,200  | 32    | 23,400  | 32    | 22,400  | 31    |
| 862    | 6500             | 6 81             |   |       |   |       |   |       | 25,900  | 36    | 25,400  | 36    | 24,600  | 36    | 23,800  | 36    |
| 895    | 6750             | 7 34             |   |       |   |       |   |       | 27,000  | 41    | 26,600  | 41    | 25,900  | 41    | 25,100  | 41    |
| 928    | 7000             | 7 89             |   |       |   |       |   |       |   |       | 27,800  | 45    | 27,200  | 45    | 26,400  | 45    |
| 965    | 7500             | 9 06             |   |       |   |       |   |       |   |       |   |       | 29,600  | 56    | 28,800  | 56    |
| 1060   | 8000             | 10 32            |   |       |   |       |   |       |   |       |   |       |   |       | 31,300  | 66    |
| 1125   | 8500             | 11 63            |   |       |   |       |   |       |   |       |   |       |   |       | 33,800  | 80    |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 3 1/2" Water 2.02 ozs. per sq. inch |       | Static Pressure 4" Water 2.31 ozs. per sq. inch     |       | Static Pressure 5" Water 2.89 ozs. per sq. inch     |       | Static Pressure 6" Water 3.47 ozs. per sq. inch     |       | Static Pressure 7" Water 4.05 ozs. per sq. inch   |       | Static Pressure 8" Water 4.63 ozs. per sq. inch     |       | Static Pressure 9" Water 5.2 ozs. per sq. inch    |       |
| 730    | 5500             | 4 88             | 13,100  | 13 5  |   |       |   |       |   |       |   |       |   |       |   |       |
| 763    | 5750             | 5 33             | 16,900  | 19    | 10,700  | 12 5  |   |       |   |       |   |       |   |       |   |       |
| 796    | 6000             | 5 80             | 19,300  | 24    | 16,100  | 19 5  |   |       |   |       |   |       |   |       |   |       |
| 829    | 6250             | 6 30             | 21,300  | 29    | 19,100  | 24 5  |   |       |   |       |   |       |   |       |   |       |
| 862    | 6500             | 6 81             | 22,800  | 35    | 21,400  | 31    | 14,200  | 21    |   |       |   |       |   |       |   |       |
| 895    | 6750             | 7 34             | 24,200  | 39    | 23,000  | 37    | 18,600  | 28    |   |       |   |       |   |       |   |       |
| 928    | 7000             | 7 89             | 25,600  | 45    | 24,600  | 43    | 21,500  | 35    |   |       |   |       |   |       |   |       |
| 965    | 7500             | 9 06             | 28,200  | 56    | 27,400  | 56    | 25,600  | 50    | 21,700  | 41    |   |       |   |       |   |       |
| 1060   | 8000             | 10 32            | 30,600  | 66    | 30,100  | 68    | 28,700  | 60    | 26,500  | 58    | 22,000  | 47    |   |       |   |       |
| 1125   | 8500             | 11 63            | 33,100  | 80    | 32,500  | 80    | 31,300  | 80    | 29,800  | 76    | 27,300  | 68    | 22,800  | 56    |   |       |
| 1192   | 9000             | 13 05            | 35,500  | 96    | 35,000  | 96    | 34,000  | 96    | 32,500  | 94    | 31,100  | 88    | 28,600  | 80    | 24,000  | 66    |
| 1200   | 9500             | 14 53            | 38,000  | 115   | 37,500  | 115   | 36,300  | 115   | 35,300  | 115   | 34,100  | 110   | 32,400  | 100   | 29,800  | 92    |
| 1326   | 10000            | 16 20            |   |       | 39,800  | 135   | 38,900  | 135   | 37,900  | 135   | 36,700  | 130   | 35,600  | 125   | 34,000  | 120   |

Single Inlet

**No. 8 Multivane Fan — Design 2**

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed<br>F.P.M. | S.N.D.<br>in<br>inches | Volume<br>C.F.M.   |       | H. P.  |       | Volume<br>C.F.M.   |       | H. P.  |       | Volume<br>C.F.M.   |       | H. P.  |       | Volume<br>C.F.M.   |       | H. P. |  | Volume<br>C.F.M. |  | H. P. |  |
|--------|---------------------|------------------------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|-------|--|------------------|--|-------|--|
|        |                     |                        | Static Pressure<br>1/4" Water<br>.0722 ozs. per<br>sq. inch  | H. P. | Static Pressure<br>1/4" Water<br>.145 ozs. per<br>sq. inch   | H. P. | Static Pressure<br>3/8" Water<br>.217 ozs. per<br>sq. inch   | H. P. | Static Pressure<br>1/2" Water<br>.289 ozs. per<br>sq. inch   | H. P. | Static Pressure<br>5/8" Water<br>.361 ozs. per<br>sq. inch | H. P. | Static Pressure<br>3/4" Water<br>.434 ozs. per<br>sq. inch   | H. P. | Static Pressure<br>7/8" Water<br>.506 ozs. per<br>sq. inch   | H. P. |       |  |                  |  |       |  |
| 116    | 1050                | 179                    | 3,960  | 0.150 |  |       |  |       |  |       |  |       |  |       |  |       |       |  |                  |  |       |  |
| 133    | 1200                | 233                    | 6,030  | 0.305 |  |       |  |       |  |       |  |       |  |       |  |       |       |  |                  |  |       |  |
| 155    | 1400                | 316                    | 7,580  | 0.52  |  |       |  |       |  |       |  |       |  |       |  |       |       |  |                  |  |       |  |
| 177    | 1600                | 412                    | 9,050  | 0.74  | 7,470  | 0.66  |  |       |  |       |  |       |  |       |  |       |       |  |                  |  |       |  |
| 199    | 1800                | 520                    | 10,400   | 1.1   | 9,390  | 1.10  | 6,140  | 0.68  |  |       |  |       |  |       |  |       |       |  |                  |  |       |  |
| 221    | 2000                | 645                    |  |       | 10,900   | 1.55  | 9,610  | 1.35  |  |       |  |       |  |       |  |       |       |  |                  |  |       |  |
| 243    | 2200                | 780                    |  |       | 12,400   | 2.05  | 11,500   | 2.00  |  |       |  |       |  |       |  |       |       |  |                  |  |       |  |
| 265    | 2400                | 930                    |  |       | 13,900   | 2.60  | 12,900   | 2.60  | 9,680  | 1.60  |  |       |  |       |  |       |       |  |                  |  |       |  |
| 287    | 2600                | 1 09                   |  |       | 15,200   | 3.35  | 14,400   | 3.35  | 12,000   | 2.40  | 9,790  | 1.90  |  |       |  |       |       |  |                  |  |       |  |
| 309    | 2800                | 1 26                   |  |       |  |       | 15,900   | 4.15  | 13,700   | 3.25  | 12,600   | 2.95  | 10,100   | 2.35  |  |       |       |  |                  |  |       |  |
| 332    | 3000                | 1 45                   |  |       |  |       | 17,300   | 5.1   | 15,200   | 4.15  | 14,500   | 4.0   | 13,200   | 3.55  | 10,700   | 2.8   |       |  |                  |  |       |  |
| 354    | 3200                | 1 65                   |  |       |  |       | 18,700   | 6.3   | 16,600   | 5.1   | 16,000   | 5.1   | 15,200   | 4.85  | 14,000   | 4.3   |       |  |                  |  |       |  |
| 376    | 3400                | 1 86                   |  |       |  |       |  |       | 18,000   | 6.3   | 17,500   | 6.3   | 16,900   | 6.1   | 16,100   | 5.8   |       |  |                  |  |       |  |
| 398    | 3600                | 2 10                   |  |       |  |       |  |       | 19,500   | 7.4   | 18,900   | 7.4   | 18,300   | 7.4   | 17,800   | 7.4   |       |  |                  |  |       |  |
| 420    | 3800                | 2 32                   |  |       |  |       |  |       | 20,500   | 8.9   | 20,300   | 8.9   | 19,800   | 8.9   | 19,300   | 8.9   |       |  |                  |  |       |  |
| 442    | 4000                | 2 58                   |  |       |  |       |  |       |  |       | 21,800   | 10.5  | 21,400   | 10.5  | 20,800   | 10.5  |       |  |                  |  |       |  |
| 464    | 4200                | 2 85                   |  |       |  |       |  |       |  |       | 23,200   | 12    | 22,800   | 12.0  | 22,200   | 12.0  |       |  |                  |  |       |  |
| 485    | 4400                | 3 13                   |  |       |  |       |  |       |  |       |  |       | 24,200   | 14.0  | 23,700   | 14.0  |       |  |                  |  |       |  |
| 508    | 4600                | 3 41                   |  |       |  |       |  |       |  |       |  |       | 25,500   | 16.5  | 25,100   | 16.5  |       |  |                  |  |       |  |
| 530    | 4800                | 3 70                   |  |       |  |       |  |       |  |       |  |       |  |       | 26,500   | 18.5  |       |  |                  |  |       |  |
|        |                     |                        |  |       |  |       |  |       |  |       |  |       |  |       | 28,000   | 21    |       |  |                  |  |       |  |
| R.P.M. | Tip Speed<br>F.P.M. | S.N.D.<br>in<br>inches | Static Pressure<br>1" Water<br>.578 ozs. per<br>sq. inch     |       | Static Pressure<br>1 1/4" Water<br>.723 ozs. per<br>sq. inch |       | Static Pressure<br>1 1/2" Water<br>.878 ozs. per<br>sq. inch |       | Static Pressure<br>1 3/4" Water<br>1.01 ozs. per<br>sq. inch |       | Static Pressure<br>2" Water<br>1.16 ozs. per<br>sq. inch   |       | Static Pressure<br>2 1/4" Water<br>1.43 ozs. per<br>sq. inch |       | Static Pressure<br>2 1/2" Water<br>1.73 ozs. per<br>sq. inch |       |       |  |                  |  |       |  |
| 332    | 3000                | 1 45                   | 11,700   | 3.55  |  |       |  |       |  |       |  |       |  |       |  |       |       |  |                  |  |       |  |
| 354    | 3200                | 1 65                   | 14,900   | 5.2   |  |       |  |       |  |       |  |       |  |       |  |       |       |  |                  |  |       |  |
| 376    | 3400                | 1 86                   | 17,000   | 6.9   | 13,900   | 5.4   |  |       |  |       |  |       |  |       |  |       |       |  |                  |  |       |  |
| 398    | 3600                | 2 10                   | 18,800   | 8.7   | 16,900   | 7.5   | 12,700   | 5.6   |  |       |  |       |  |       |  |       |       |  |                  |  |       |  |
| 420    | 3800                | 2 32                   | 20,300   | 10.5  | 19,100   | 9.6   | 16,600   | 8.1   |  |       |  |       |  |       |  |       |       |  |                  |  |       |  |
| 442    | 4000                | 2 58                   | 21,700   | 12.0  | 20,700   | 12.0  | 19,100   | 10.5  | 16,000   | 8.7   |  |       |  |       |  |       |       |  |                  |  |       |  |
| 464    | 4200                | 2 85                   | 23,200   | 14.0  | 22,300   | 14.0  | 21,200   | 13.5  | 19,300   | 11.5  | 15,500   | 9.3   |  |       |  |       |       |  |                  |  |       |  |
| 486    | 4400                | 3 13                   | 24,800   | 16.5  | 23,800   | 16.5  | 22,600   | 16.0  | 21,600   | 14.5  | 19,400   | 13    |  |       |  |       |       |  |                  |  |       |  |
| 508    | 4600                | 3 41                   | 26,200   | 18.5  | 25,400   | 18.5  | 24,500   | 18.5  | 23,600   | 17.5  | 22,000   | 16    | 14,600   | 10.5  |  |       |       |  |                  |  |       |  |
| 530    | 4800                | 3 70                   | 27,500   | 21    | 26,700   | 21    | 26,000   | 21    | 25,200   | 20.5  | 24,000   | 19    | 19,500   | 15.0  |  |       |       |  |                  |  |       |  |
| 552    | 5000                | 4 05                   | 28,900   | 24    | 28,200   | 24    | 27,500   | 24    | 26,600   | 24    | 25,600   | 23    | 22,700   | 19.5  | 14,900   | 13    |       |  |                  |  |       |  |
| 580    | 5250                | 4 44                   |  |       | 30,000   | 28    | 29,300   | 28    | 28,400   | 28    | 27,700   | 27    | 25,000   | 24.5  | 21,400   | 20    |       |  |                  |  |       |  |
| 608    | 5500                | 4 88                   |  |       | 31,600   | 32    | 31,000   | 32    | 30,200   | 32    | 29,600   | 32    | 28,100   | 30    | 25,200   | 26    |       |  |                  |  |       |  |
| 636    | 5750                | 5 33                   |  |       | 33,400   | 36    | 32,800   | 36    | 32,200   | 36    | 31,500   | 36    | 30,200   | 36    | 28,100   | 33    |       |  |                  |  |       |  |
| 663    | 6000                | 5 80                   |  |       |  |       | 34,500   | 41    | 33,900   | 41    | 33,300   | 41    | 32,000   | 41    | 30,400   | 38    |       |  |                  |  |       |  |
| 691    | 6250                | 6 30                   |  |       |  |       |  |       | 35,600   | 46    | 35,100   | 46    | 33,800   | 46    | 32,500   | 45    |       |  |                  |  |       |  |
| 718    | 6500                | 6 81                   |  |       |  |       |  |       | 37,500   | 52    | 36,800   | 52    | 35,600   | 52    | 34,600   | 52    |       |  |                  |  |       |  |
| 746    | 6750                | 7 34                   |  |       |  |       |  |       | 39,200   | 58    | 38,600   | 58    | 37,500   | 58    | 36,400   | 58    |       |  |                  |  |       |  |
| 774    | 7000                | 7 89                   |  |       |  |       |  |       |  |       | 40,300   | 66    | 39,400   | 66    | 38,300   | 66    |       |  |                  |  |       |  |
| 830    | 7500                | 9 06                   |  |       |  |       |  |       |  |       |  |       | 42,900   | 80    | 41,700   | 80    |       |  |                  |  |       |  |
| 885    | 8000                | 10 32                  |  |       |  |       |  |       |  |       |  |       |  |       | 45,400   | 96    |       |  |                  |  |       |  |
| 938    | 8500                | 11 63                  |  |       |  |       |  |       |  |       |  |       |  |       | 49,000   | 115   |       |  |                  |  |       |  |
| R.P.M. | Tip Speed<br>F.P.M. | S.N.D.<br>in<br>inches | Static Pressure<br>3 1/2" Water<br>2.02 ozs. per<br>sq. inch |       | Static Pressure<br>4" Water<br>2.31 ozs. per<br>sq. inch     |       | Static Pressure<br>5" Water<br>2.89 ozs. per<br>sq. inch     |       | Static Pressure<br>6" Water<br>3.47 ozs. per<br>sq. inch     |       | Static Pressure<br>7" Water<br>4.05 ozs. per<br>sq. inch   |       | Static Pressure<br>8" Water<br>4.63 ozs. per<br>sq. inch     |       | Static Pressure<br>9" Water<br>5.2 ozs. per<br>sq. inch      |       |       |  |                  |  |       |  |
| 608    | 5500                | 4 88                   | 19,000   | 19.5  |  |       |  |       |  |       |  |       |  |       |  |       |       |  |                  |  |       |  |
| 636    | 5750                | 5 33                   | 24,500   | 27    | 15,500   | 18    |  |       |  |       |  |       |  |       |  |       |       |  |                  |  |       |  |
| 663    | 6000                | 5 80                   | 27,900   | 35    | 23,300   | 28    |  |       |  |       |  |       |  |       |  |       |       |  |                  |  |       |  |
| 691    | 6250                | 6 30                   | 30,900   | 42    | 27,700   | 35    |  |       |  |       |  |       |  |       |  |       |       |  |                  |  |       |  |
| 718    | 6500                | 6 81                   | 33,100   | 50    | 30,900   | 44    | 20,600   | 30    |  |       |  |       |  |       |  |       |       |  |                  |  |       |  |
| 726    | 6750                | 7 34                   | 35,100   | 58    | 33,400   | 54    | 26,900   | 41    |  |       |  |       |  |       |  |       |       |  |                  |  |       |  |
| 774    | 7000                | 7 89                   | 37,100   | 64    | 35,700   | 62    | 31,200   | 50    |  |       |  |       |  |       |  |       |       |  |                  |  |       |  |
| 830    | 7500                | 9 06                   | 40,800   | 80    | 39,800   | 80    | 37,000   | 72    | 31,500   | 60    |  |       |  |       |  |       |       |  |                  |  |       |  |
| 885    | 8000                | 10 32                  | 44,400   | 98    | 43,600   | 98    | 41,500   | 92    | 38,400   | 86    | 32,000   | 68    |  |       |  |       |       |  |                  |  |       |  |
| 938    | 8500                | 11 63                  | 48,000   | 115   | 47,100   | 115   | 45,400   | 115   | 43,200   | 110   | 39,600   | 98    | 33,100   | 80    |  |       |       |  |                  |  |       |  |
| 996    | 9000                | 13 05                  | 51,500   | 140   | 50,700   | 140   | 49,200   | 140   | 47,100   | 135   | 45,100   | 130   | 41,400   | 115   | 34,800   | 96    |       |  |                  |  |       |  |
| 1050   | 9500                | 14 53                  | 55,100   | 155   | 54,300   | 165   | 52,600   | 165   | 51,100   | 165   | 49,400   | 160   | 47,000   | 150   | 43,200   | 135   |       |  |                  |  |       |  |
| 1105   | 10000               | 16 20                  |  |       | 57,800   | 190   | 56,400   | 190   | 54,900   | 190   | 53,200   | 190   | 51,500   | 185   | 49,300   | 170   |       |  |                  |  |       |  |



Single Inlet

**No. 9 Multivane Fan — Design 2**

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed<br>F.P.M. | S.N.D.<br>in<br>inches | Volume<br>C.F.M.   | H. P.  | Volume<br>C.F.M.   | H. P.  | Volume<br>C.F.M.   | H. P.  | Volume<br>C.F.M.   | H. P.  | Volume<br>C.F.M.   | H. P.  | Volume<br>C.F.M.   | H. P.  | Volume<br>C.F.M.   | H. P.  |
|--------|---------------------|------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
|        |                     |                        | Static Pressure<br>1/2" Water<br>.0722 ozs. per<br>sq. inch  | Static Pressure<br>1/2" Water<br>.145 ozs. per<br>sq. inch   | Static Pressure<br>3/4" Water<br>.217 ozs. per<br>sq. inch   | Static Pressure<br>1" Water<br>.289 ozs. per<br>sq. inch     | Static Pressure<br>1 1/4" Water<br>.361 ozs. per<br>sq. inch | Static Pressure<br>1 1/2" Water<br>.434 ozs. per<br>sq. inch | Static Pressure<br>1 3/4" Water<br>.506 ozs. per<br>sq. inch | Static Pressure<br>2" Water<br>.578 ozs. per<br>sq. inch     | Static Pressure<br>2 1/4" Water<br>.650 ozs. per<br>sq. inch | Static Pressure<br>2 1/2" Water<br>.723 ozs. per<br>sq. inch | Static Pressure<br>2 3/4" Water<br>.795 ozs. per<br>sq. inch | Static Pressure<br>3" Water<br>.868 ozs. per<br>sq. inch     | Static Pressure<br>3 1/4" Water<br>.940 ozs. per<br>sq. inch | Static Pressure<br>3 1/2" Water<br>.995 ozs. per<br>sq. inch |
| 99     | 1050                | 179                    | 5,350  | 0 20   |  |  |  |  |  |  |  |  |  |  |  |  |
| 111    | 1200                | 233                    | 8,150  | 0 41   |  |  |  |  |  |  |  |  |  |  |  |  |
| 133    | 1400                | 316                    | 10,300   | 0 71   |  |  |  |  |  |  |  |  |  |  |  |  |
| 152    | 1600                | 412                    | 12,300   | 1 00   | 10,100   | 0 89   |  |  |  |  |  |  |  |  |  |  |
| 171    | 1800                | 520                    | 14,100   | 1 45   | 12,700   | 1 45   | 8,320  | 0 92   |  |  |  |  |  |  |  |  |
| 190    | 2000                | 645                    |  |  | 14,800   | 2 10   | 13,000   | 1 80   |  |  |  |  |  |  |  |  |
| 208    | 2200                | 780                    |  |  | 16,800   | 2 75   | 15,500   | 2 70   |  |  |  |  |  |  |  |  |
| 228    | 2400                | 930                    |  |  | 18,800   | 3 55   | 17,500   | 3 55   |  |  |  |  |  |  |  |  |
| 246    | 2600                | 1 09                   |  |  | 20,600   | 4 55   | 19,500   | 4 55   |  |  |  |  |  |  |  |  |
| 265    | 2800                | 1 26                   |  |  |  |  | 21,500   | 5 6  | 20,500   | 5 6  |  |  |  |  |  |  |
| 284    | 3000                | 1 45                   |  |  |  |  | 23,400   | 7 0  | 22,500   | 7 0  |  |  |  |  |  |  |
| 303    | 3200                | 1 65                   |  |  |  |  | 25,300   | 8 5  | 24,400   | 8 5  |  |  |  |  |  |  |
| 322    | 3400                | 1 86                   |  |  |  |  |  |  | 26,400   | 10   | 25,600   | 10 0   | 24,800   | 10 0   | 24,200   | 10 0   |
| 341    | 3600                | 2 10                   |  |  |  |  |  |  | 28,300   | 12   | 27,500   | 12 0   | 26,800   | 12 0   | 26,100   | 12 0   |
| 360    | 3800                | 2 32                   |  |  |  |  |  |  |  |  | 29,500   | 14 5   | 28,900   | 14 5   | 28,100   | 14 5   |
| 379    | 4000                | 2 58                   |  |  |  |  |  |  |  |  | 31,300   | 16 5   | 30,800   | 16 5   | 30,000   | 16 5   |
| 398    | 4200                | 2 85                   |  |  |  |  |  |  |  |  |  |  | 32,700   | 19   | 32,000   | 19   |
| 417    | 4400                | 3 13                   |  |  |  |  |  |  |  |  |  |  | 34,500   | 22   | 33,900   | 22   |
| 436    | 4600                | 3 41                   |  |  |  |  |  |  |  |  |  |  |  |  | 35,900   | 25   |
| 455    | 4800                | 3 70                   |  |  |  |  |  |  |  |  |  |  |  |  | 37,800   | 29   |
|        |                     |                        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| R.P.M. | Tip Speed<br>F.P.M. | S.N.D.<br>in<br>inches | Static Pressure<br>1" Water<br>.578 ozs. per<br>sq. inch     | Static Pressure<br>1 1/4" Water<br>.723 ozs. per<br>sq. inch | Static Pressure<br>1 1/2" Water<br>.795 ozs. per<br>sq. inch | Static Pressure<br>1 3/4" Water<br>.868 ozs. per<br>sq. inch | Static Pressure<br>2" Water<br>.940 ozs. per<br>sq. inch     | Static Pressure<br>2 1/4" Water<br>1.01 ozs. per<br>sq. inch | Static Pressure<br>2 1/2" Water<br>1.08 ozs. per<br>sq. inch | Static Pressure<br>2 3/4" Water<br>1.16 ozs. per<br>sq. inch | Static Pressure<br>3" Water<br>1.23 ozs. per<br>sq. inch     | Static Pressure<br>3 1/4" Water<br>1.31 ozs. per<br>sq. inch | Static Pressure<br>3 1/2" Water<br>1.39 ozs. per<br>sq. inch | Static Pressure<br>3 3/4" Water<br>1.47 ozs. per<br>sq. inch | Static Pressure<br>4" Water<br>1.55 ozs. per<br>sq. inch     | Static Pressure<br>4 1/4" Water<br>1.63 ozs. per<br>sq. inch |
| 284    | 3000                | 1 45                   | 15,800   | 4 8  |  |  |  |  |  |  |  |  |  |  |  |  |
| 303    | 3200                | 1 65                   | 20,100   | 7 1  |  |  |  |  |  |  |  |  |  |  |  |  |
| 322    | 3400                | 1 86                   | 23,000   | 9 3  | 18,800   | 7 3  |  |  |  |  |  |  |  |  |  |  |
| 341    | 3600                | 2 10                   | 25,400   | 12 0   | 22,900   | 10   | 17,100   | 7 6  |  |  |  |  |  |  |  |  |
| 360    | 3800                | 2 32                   | 27,500   | 14 0   | 25,800   | 13   | 22,400   | 11 0   |  |  |  |  |  |  |  |  |
| 379    | 4000                | 2 58                   | 29,300   | 16 5   | 28,000   | 16   | 25,800   | 14 5   | 21,700   | 11 7   |  |  |  |  |  |  |
| 398    | 4200                | 2 85                   | 31,400   | 19   | 30,200   | 19   | 28,600   | 18 0   | 26,100   | 16   | 21,000   | 12 5   |  |  |  |  |
| 417    | 4400                | 3 13                   | 33,500   | 22   | 32,200   | 22   | 31,000   | 21 5   | 29,200   | 20   | 26,200   | 17 5   |  |  |  |  |
| 436    | 4600                | 3 41                   | 35,400   | 25   | 34,300   | 25   | 33,100   | 25   | 31,900   | 24   | 29,700   | 22   |  |  |  |  |
| 455    | 4800                | 3 70                   | 37,200   | 29   | 36,200   | 29   | 35,100   | 29   | 34,100   | 28   | 32,400   | 26   | 19,800   | 14 5   | 26,400   | 20 5   |
| 474    | 5000                | 4 05                   | 39,100   | 33   | 38,100   | 33   | 37,200   | 33   | 36,000   | 32   | 34,700   | 31   | 30,700   | 26   | 20,200   | 17 5   |
| 498    | 5250                | 4 44                   |  |  | 40,500   | 38   | 39,600   | 38   | 38,500   | 38   | 37,500   | 37   | 34,700   | 33   | 28,900   | 27   |
| 522    | 5500                | 4 88                   |  |  | 42,800   | 43   | 42,000   | 43   | 40,900   | 43   | 40,000   | 43   | 38,000   | 41   | 34,100   | 35   |
| 545    | 5750                | 5 33                   |  |  | 45,200   | 49   | 44,300   | 49   | 43,500   | 49   | 42,600   | 49   | 40,800   | 48   | 38,000   | 44   |
| 569    | 6000                | 5 80                   |  |  |  |  | 46,800   | 56   | 45,800   | 56   | 45,000   | 56   | 43,300   | 56   | 41,100   | 52   |
| 593    | 6250                | 6 30                   |  |  |  |  |  |  | 48,200   | 62   | 47,500   | 62   | 45,800   | 62   | 44,000   | 62   |
| 616    | 6500                | 6 81                   |  |  |  |  |  |  | 50,800   | 70   | 49,800   | 70   | 48,200   | 70   | 46,800   | 70   |
| 640    | 6750                | 7 34                   |  |  |  |  |  |  | 53,000   | 80   | 52,300   | 80   | 50,800   | 80   | 49,300   | 80   |
| 663    | 7000                | 7 89                   |  |  |  |  |  |  |  |  | 54,600   | 90   | 53,200   | 90   | 51,800   | 90   |
| 710    | 7500                | 9 06                   |  |  |  |  |  |  |  |  |  |  | 58,000   | 110  | 56,500   | 110  |
| 758    | 8000                | 10 32                  |  |  |  |  |  |  |  |  |  |  |  |  | 61,400   | 135  |
| 806    | 8500                | 11 63                  |  |  |  |  |  |  |  |  |  |  |  |  | 66,300   | 160  |
|        |                     |                        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| R.P.M. | Tip Speed<br>F.P.M. | S.N.D.<br>in<br>inches | Static Pressure<br>3 1/2" Water<br>2.02 ozs. per<br>sq. inch | Static Pressure<br>4" Water<br>2.31 ozs. per<br>sq. inch     | Static Pressure<br>5" Water<br>2.89 ozs. per<br>sq. inch     | Static Pressure<br>6" Water<br>3.47 ozs. per<br>sq. inch     | Static Pressure<br>7" Water<br>4.05 ozs. per<br>sq. inch     | Static Pressure<br>8" Water<br>4.63 ozs. per<br>sq. inch     | Static Pressure<br>9" Water<br>5.21 ozs. per<br>sq. inch     | Static Pressure<br>10" Water<br>5.79 ozs. per<br>sq. inch    | Static Pressure<br>11" Water<br>6.37 ozs. per<br>sq. inch    | Static Pressure<br>12" Water<br>6.95 ozs. per<br>sq. inch    | Static Pressure<br>13" Water<br>7.53 ozs. per<br>sq. inch    | Static Pressure<br>14" Water<br>8.11 ozs. per<br>sq. inch    | Static Pressure<br>15" Water<br>8.69 ozs. per<br>sq. inch    | Static Pressure<br>16" Water<br>9.27 ozs. per<br>sq. inch    |
| 522    | 5500                | 4 88                   | 25,700   | 27   |  |  |  |  |  |  |  |  |  |  |  |  |
| 545    | 5750                | 5 33                   | 33,100   | 37   | 21,000   | 24   |  |  |  |  |  |  |  |  |  |  |
| 569    | 6000                | 5 80                   | 37,800   | 47   | 31,500   | 39   |  |  |  |  |  |  |  |  |  |  |
| 593    | 6250                | 6 30                   | 41,800   | 56   | 37,500   | 48   |  |  |  |  |  |  |  |  |  |  |
| 616    | 6500                | 6 81                   | 44,800   | 68   | 41,800   | 60   | 27,900   | 41   |  |  |  |  |  |  |  |  |
| 640    | 6750                | 7 34                   | 47,500   | 78   | 45,300   | 72   | 36,400   | 56   |  |  |  |  |  |  |  |  |
| 663    | 7000                | 7 89                   | 50,300   | 88   | 48,300   | 84   | 42,100   | 68   |  |  |  |  |  |  |  |  |
| 710    | 7500                | 9 06                   | 55,200   | 110  | 53,800   | 108  | 50,100   | 98   | 42,600   | 82   |  |  |  |  |  |  |
| 758    | 8000                | 10 32                  | 60,000   | 135  | 59,000   | 135  | 56,200   | 125  | 52,000   | 115  | 43,200   | 94   |  |  |  |  |
| 806    | 8500                | 11 63                  | 65,000   | 160  | 63,700   | 160  | 61,400   | 155  | 58,500   | 150  | 53,600   | 135  | 44,700   | 110  |  |  |
| 852    | 9000                | 13 05                  | 69,800   | 190  | 68,600   | 190  | 66,300   | 190  | 63,700   | 185  | 61,000   | 175  | 56,000   | 155  | 47,100   | 130  |
| 900    | 9500                | 14 53                  | 74,600   | 220  | 73,500   | 220  | 71,200   | 220  | 69,200   | 220  | 66,800   | 215  | 63,600   | 200  | 58,500   | 180  |
| 950    | 10000               | 16 20                  |  | 200  | 78,200   | 260  | 76,300   | 260  | 74,300   | 260  | 72,000   | 260  | 69,800   | 250  | 66,800   | 235  |

Single Inlet

**No. 10 Multivane Fan — Design 2**

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                     | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. |
|--------|------------------|------------------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|
|        |                  |                  | Static Pressure 1/4" Water .0722 ozs. per sq. inch  |       | Static Pressure 1/4" Water .145 ozs. per sq. inch   |       | Static Pressure 1/4" Water .217 ozs. per sq. inch   |       | Static Pressure 1/4" Water .289 ozs. per sq. inch   |       | Static Pressure 1/4" Water .361 ozs. per sq. inch |       | Static Pressure 1/4" Water .434 ozs. per sq. inch   |       | Static Pressure 1/4" Water .506 ozs. per sq. inch   |       |
| 87     | 1050             | 179              | 7,020   | 0.26  |   |       |   |       |   |       |   |       |   |       |   |       |
| 100    | 1200             | 233              | 10,700  | 0.55  |   |       |   |       |   |       |   |       |   |       |   |       |
| 116    | 1400             | 316              | 13,500  | 0.93  |   |       |   |       |   |       |   |       |   |       |   |       |
| 133    | 1600             | 412              | 16,100  | 1.3   | 13,300  | 1.15  |   |       |   |       |   |       |   |       |   |       |
| 149    | 1800             | 520              | 18,500  | 1.9   | 16,700  | 1.90  | 10,900  | 1.20  |   |       |   |       |   |       |   |       |
| 166    | 2000             | 645              |   |       | 19,400  | 2.75  | 17,100  | 2.35  |   |       |   |       |   |       |   |       |
| 183    | 2200             | 780              |   |       | 22,000  | 3.60  | 20,300  | 3.55  | 17,200  | 2.80  |   |       |   |       |   |       |
| 199    | 2400             | 930              |   |       | 24,700  | 4.65  | 23,000  | 4.65  | 21,300  | 4.30  | 17,400  | 3.4   |   |       |   |       |
| 216    | 2600             | 1 09             |   |       | 27,000  | 6     | 25,600  | 6 0   | 24,300  | 5 8   | 22,300  | 5.2   | 18,000  | 4.15  |   |       |
| 232    | 2800             | 1 26             |   |       |   |       | 28,200  | 7 4   | 26,900  | 7 4   | 25,700  | 7 1   | 23,500  | 6.3   | 18,900  | 5.0   |
| 249    | 3000             | 1 45             |   |       |   |       | 30,700  | 9 1   | 29,500  | 9 1   | 28,400  | 9 1   | 27,000  | 8.6   | 24,800  | 7.7   |
| 266    | 3200             | 1 65             |   |       |   |       | 33,200  | 11    | 32,000  | 11    | 31,100  | 11 0  | 29,900  | 11 0  | 28,600  | 10.0  |
| 282    | 3400             | 1 86             |   |       |   |       |   |       | 34,600  | 13    | 33,600  | 13 0  | 32,600  | 13 0  | 31,700  | 13.0  |
| 299    | 3600             | 2 10             |   |       |   |       |   |       | 37,000  | 16    | 36,100  | 16 0  | 35,200  | 16 0  | 34,200  | 16 0  |
| 315    | 3800             | 2 32             |   |       |   |       |   |       |   |       | 38,700  | 19 0  | 37,900  | 19 0  | 36,900  | 19 0  |
| 332    | 4000             | 2 58             |   |       |   |       |   |       |   |       | 41,100  | 21.5  | 40,400  | 21.5  | 39,400  | 21.5  |
| 349    | 4200             | 2 85             |   |       |   |       |   |       |   |       |   |       | 42,900  | 25    | 42,000  | 25    |
| 365    | 4400             | 3 13             |   |       |   |       |   |       |   |       |   |       | 49,600  | 29    | 44,500  | 29    |
| 382    | 4600             | 3 41             |   |       |   |       |   |       |   |       |   |       |   |       | 47,100  | 33    |
| 399    | 4800             | 3 70             |   |       |   |       |   |       |   |       |   |       |   |       | 49,600  | 38    |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 ozs. per sq. inch     |       | Static Pressure 1 1/4" Water .723 ozs. per sq. inch |       | Static Pressure 1 1/2" Water .878 ozs. per sq. inch |       | Static Pressure 1 3/4" Water 1.01 ozs. per sq. inch |       | Static Pressure 2" Water 1.16 ozs. per sq. inch   |       | Static Pressure 2 1/4" Water 1.45 ozs. per sq. inch |       | Static Pressure 2 1/2" Water 1.73 ozs. per sq. inch |       |
| 249    | 3000             | 1 45             | 20,700  | 6 3   |   |       |   |       |   |       |   |       |   |       |   |       |
| 266    | 3200             | 1 65             | 26,400  | 9 3   |   |       |   |       |   |       |   |       |   |       |   |       |
| 282    | 3400             | 1 86             | 30,200  | 12 0  | 24,700  | 9 6   |   |       |   |       |   |       |   |       |   |       |
| 299    | 3600             | 2 10             | 33,300  | 15 5  | 30,000  | 13 5  | 22,500  | 10 0  |   |       |   |       |   |       |   |       |
| 315    | 3800             | 2 32             | 36,000  | 18 5  | 33,800  | 17 0  | 29,400  | 14 5  |   |       |   |       |   |       |   |       |
| 332    | 4000             | 2 58             | 38,500  | 21 5  | 36,700  | 21 0  | 33,900  | 19 0  | 28,500  | 15 5  |   |       |   |       |   |       |
| 349    | 4200             | 2 85             | 41,200  | 25    | 39,600  | 24 5  | 37,500  | 23 5  | 34,200  | 21    | 27,600  | 10 5  |   |       |   |       |
| 365    | 4400             | 3 13             | 43,900  | 29    | 42,300  | 29    | 40,700  | 28    | 38,300  | 26    | 34,400  | 23    |   |       |   |       |
| 382    | 4600             | 3 41             | 46,500  | 33    | 45,000  | 33    | 43,400  | 33    | 41,900  | 32    | 39,000  | 29    | 26,000  | 19    |   |       |
| 399    | 4800             | 3 70             | 48,800  | 38    | 47,400  | 38    | 46,000  | 38    | 44,800  | 37    | 42,500  | 34    | 34,600  | 27    |   |       |
| 415    | 5000             | 4 05             | 51,300  | 43    | 50,000  | 43    | 48,700  | 43    | 47,200  | 43    | 45,500  | 41    | 40,300  | 35    | 26,400  | 23    |
| 436    | 5250             | 4 44             |   |       | 53,100  | 49    | 52,000  | 49    | 50,500  | 49    | 49,200  | 48    | 45,600  | 43    | 38,000  | 35    |
| 456    | 5500             | 4 88             |   |       | 56,100  | 56    | 55,100  | 56    | 53,700  | 56    | 52,500  | 56    | 49,900  | 54    | 44,800  | 46    |
| 477    | 5750             | 5 33             |   |       | 59,300  | 64    | 58,200  | 64    | 57,100  | 64    | 55,900  | 64    | 53,000  | 64    | 49,900  | 58    |
| 498    | 6000             | 5 80             |   |       |   |       | 61,500  | 72    | 60,100  | 72    | 59,100  | 72    | 56,800  | 72    | 53,900  | 68    |
| 519    | 6250             | 6 30             |   |       |   |       |   |       | 63,300  | 82    | 62,300  | 82    | 60,000  | 82    | 57,800  | 80    |
| 540    | 6500             | 6 81             |   |       |   |       |   |       | 66,600  | 92    | 65,400  | 92    | 63,200  | 92    | 61,400  | 92    |
| 560    | 6750             | 7 34             |   |       |   |       |   |       | 69,500  | 105   | 68,600  | 105   | 66,600  | 105   | 64,600  | 105   |
| 581    | 7000             | 7 89             |   |       |   |       |   |       |   |       | 71,600  | 115   | 69,800  | 115   | 68,000  | 115   |
| 622    | 7500             | 9 06             |   |       |   |       |   |       |   |       |   |       | 76,100  | 145   | 74,100  | 145   |
| 664    | 8000             | 10 32            |   |       |   |       |   |       |   |       |   |       |   |       | 80,500  | 175   |
| 705    | 8500             | 11 63            |   |       |   |       |   |       |   |       |   |       |   |       | 87,000  | 210   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 3 1/2" Water 2.62 ozs. per sq. inch |       | Static Pressure 4" Water 2.31 ozs. per sq. inch     |       | Static Pressure 5" Water 2.89 ozs. per sq. inch     |       | Static Pressure 6" Water 3.47 ozs. per sq. inch     |       | Static Pressure 7" Water 4.05 ozs. per sq. inch   |       | Static Pressure 8" Water 4.63 ozs. per sq. inch     |       | Static Pressure 9" Water 5.2 ozs. per sq. inch      |       |
| 456    | 5500             | 4 88             | 33,800  | 35    |   |       |   |       |   |       |   |       |   |       |   |       |
| 477    | 5750             | 5 33             | 43,500  | 49    | 27,500  | 32    |   |       |   |       |   |       |   |       |   |       |
| 498    | 6000             | 5 80             | 49,600  | 62    | 41,300  | 50    |   |       |   |       |   |       |   |       |   |       |
| 519    | 6250             | 6 30             | 54,800  | 74    | 42,200  | 62    |   |       |   |       |   |       |   |       |   |       |
| 540    | 6500             | 6 81             | 58,800  | 90    | 54,900  | 80    | 36,600  | 54    |   |       |   |       |   |       |   |       |
| 560    | 6750             | 7 34             | 62,400  | 100   | 59,400  | 94    | 47,800  | 74    |   |       |   |       |   |       |   |       |
| 581    | 7000             | 7 89             | 65,900  | 115   | 63,400  | 110   | 55,300  | 90    |   |       |   |       |   |       |   |       |
| 622    | 7500             | 9 06             | 72,500  | 145   | 70,600  | 140   | 65,800  | 130   | 55,900  | 105   |   |       |   |       |   |       |
| 664    | 8000             | 10 32            | 78,800  | 175   | 77,500  | 175   | 73,000  | 165   | 68,300  | 150   | 56,700  | 120   |   |       |   |       |
| 705    | 8500             | 11 63            | 85,300  | 210   | 83,600  | 210   | 80,600  | 205   | 76,800  | 195   | 70,400  | 175   | 58,700  | 145   |   |       |
| 746    | 9000             | 13 05            | 91,500  | 250   | 90,000  | 250   | 87,500  | 250   | 83,600  | 240   | 80,000  | 225   | 73,500  | 205   | 61,800  | 170   |
| 788    | 9500             | 14 53            | 97,800  | 290   | 96,500  | 290   | 93,500  | 290   | 90,800  | 290   | 87,600  | 285   | 83,500  | 260   | 76,800  | 235   |
| 830    | 10000            | 16 20            |   |       | 103,000   | 340   | 100,000   | 340   | 97,500  | 340   | 94,500  | 340   | 91,600  | 325   | 87,500  | 305   |

Single Inlet

**No. 11 Multivane Fan — Design 2**

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.                                       | H. P.                 | Volume C.F.M.                                       | H. P.                 | Volume C.F.M.                                       | H. P.                 | Volume C.F.M.                                       | H. P.                 | Volume C.F.M.                                       | H. P.                 | Volume C.F.M.                                       | H. P.                 | Volume C.F.M.                                       | H. P.                 |
|--------|------------------|------------------|---|-----------------------|---|-----------------------|---|-----------------------|---|-----------------------|---|-----------------------|---|-----------------------|---|-----------------------|
|        |                  |                  | Static Pressure 1/2" Water .0722 ozs. per sq. inch  | Pressure 1/2" Water   | Static Pressure 1/2" Water .145 ozs. per sq. inch   | Pressure 1/2" Water   | Static Pressure 3/4" Water .217 ozs. per sq. inch   | Pressure 3/4" Water   | Static Pressure 1" Water .289 ozs. per sq. inch     | Pressure 1" Water     | Static Pressure 1 1/4" Water .361 ozs. per sq. inch | Pressure 1 1/4" Water | Static Pressure 1 1/2" Water .434 ozs. per sq. inch | Pressure 1 1/2" Water | Static Pressure 1 3/4" Water .508 ozs. per sq. inch | Pressure 1 3/4" Water |
| 77     | 1050             | 179              | 8,730   | 33                    |   |                       |   |                       |   |                       |   |                       |   |                       |   |                       |
| 88     | 1200             | 233              | 13,400  | 69                    |   |                       |   |                       |   |                       |   |                       |   |                       |   |                       |
| 103    | 1400             | 316              | 16,900  | 115                   |   |                       |   |                       |   |                       |   |                       |   |                       |   |                       |
| 118    | 1600             | 412              | 20,200  | 165                   | 16,700  | 1.45                  |   |                       |   |                       |   |                       |   |                       |   |                       |
| 132    | 1800             | 520              | 23,300  | 241                   | 20,900  | 2.40                  | 13,700  | 1.50                  |   |                       |   |                       |   |                       |   |                       |
| 147    | 2000             | 645              |   |                       | 24,400  | 3.45                  | 21,400  | 3.00                  |   |                       |   |                       |   |                       |   |                       |
| 162    | 2200             | 780              |   |                       | 27,700  | 4.55                  | 25,600  | 4.45                  | 21,600  | 3.55                  |   |                       |   |                       |   |                       |
| 177    | 2400             | 930              |   |                       | 31,000  | 5.9                   | 28,800  | 5.9                   | 25,700  | 5.4                   | 21,900  | 4.3                   |   |                       |   |                       |
| 191    | 2600             | 1 09             |   |                       | 34,000  | 7.5                   | 32,200  | 7.5                   | 30,500  | 7.3                   | 28,000  | 6.6                   | 22,600  | 5.2                   |   |                       |
| 206    | 2800             | 1 26             |   |                       |   |                       | 35,500  | 9.3                   | 33,800  | 9.3                   | 32,200  | 8.9                   | 29,600  | 7.9                   | 23,800  | 6.3                   |
| 221    | 3000             | 1 45             |   |                       |   |                       | 38,600  | 11.5                  | 37,200  | 11.5                  | 35,700  | 11.5                  | 34,000  | 11.0                  | 31,200  | 9.6                   |
| 235    | 3200             | 1 65             |   |                       |   |                       | 41,700  | 14                    | 40,300  | 14.0                  | 39,100  | 14.0                  | 37,600  | 13.5                  | 36,000  | 13.0                  |
| 250    | 3400             | 1 86             |   |                       |   |                       |   |                       | 43,500  | 16.5                  | 42,200  | 16.5                  | 40,900  | 16.5                  | 39,800  | 16.5                  |
| 265    | 3600             | 2 10             |   |                       |   |                       |   |                       | 46,500  | 20                    | 45,300  | 20                    | 44,200  | 20                    | 43,100  | 20                    |
| 279    | 3800             | 2 32             |   |                       |   |                       |   |                       |   |                       | 48,700  | 21                    | 47,700  | 24                    | 46,400  | 24                    |
| 294    | 4000             | 2 58             |   |                       |   |                       |   |                       |   |                       | 51,700  | 27                    | 50,800  | 27                    | 49,500  | 27                    |
| 309    | 4200             | 2 85             |   |                       |   |                       |   |                       |   |                       |   |                       | 54,000  | 31                    | 52,800  | 31                    |
| 324    | 4400             | 3 13             |   |                       |   |                       |   |                       |   |                       |   |                       | 56,900  | 36                    | 55,900  | 36                    |
| 338    | 4600             | 3 41             |   |                       |   |                       |   |                       |   |                       |   |                       |   | 59,200                | 42  |                       |
| 353    | 4800             | 3 70             |   |                       |   |                       |   |                       |   |                       |   |                       |   | 62,400                | 47  |                       |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 ozs. per sq. inch     | Pressure 1" Water     | Static Pressure 1 1/4" Water .723 ozs. per sq. inch | Pressure 1 1/4" Water | Static Pressure 1 1/2" Water .878 ozs. per sq. inch | Pressure 1 1/2" Water | Static Pressure 1 3/4" Water 1.01 ozs. per sq. inch | Pressure 1 3/4" Water | Static Pressure 2" Water 1.16 ozs. per sq. inch     | Pressure 2" Water     | Static Pressure 2 1/2" Water 1.45 ozs. per sq. inch | Pressure 2 1/2" Water | Static Pressure 3" Water 1.73 ozs. per sq. inch     | Pressure 3" Water     |
| 221    | 3000             | 1 15             | 26,000  | 7.9                   |   |                       |   |                       |   |                       |   |                       |   |                       |   |                       |
| 235    | 3200             | 1 65             | 33,200  | 11.5                  |   |                       |   |                       |   |                       |   |                       |   |                       |   |                       |
| 250    | 3400             | 1 86             | 38,000  | 15.5                  | 31,000  | 12.0                  |   |                       |   |                       |   |                       |   |                       |   |                       |
| 265    | 3600             | 2 10             | 41,900  | 19.5                  | 37,700  | 17.0                  | 28,300  | 12.5                  |   |                       |   |                       |   |                       |   |                       |
| 279    | 3800             | 2 32             | 45,300  | 23                    | 42,600  | 21.5                  | 37,000  | 18.0                  |   |                       |   |                       |   |                       |   |                       |
| 294    | 4000             | 2 58             | 48,300  | 27                    | 46,200  | 27                    | 42,500  | 23.5                  | 35,800  | 19.5                  |   |                       |   |                       |   |                       |
| 309    | 4200             | 2 85             | 51,800  | 31                    | 49,800  | 31                    | 47,200  | 30                    | 43,100  | 26                    | 34,700  | 21                    |   |                       |   |                       |
| 324    | 4400             | 3 13             | 55,300  | 36                    | 53,200  | 36                    | 51,200  | 35                    | 48,200  | 33                    | 43,200  | 29                    |   |                       |   |                       |
| 338    | 4600             | 3 41             | 58,500  | 42                    | 56,600  | 42                    | 54,600  | 41                    | 52,600  | 39                    | 49,000  | 36                    | 32,700  | 23.5                  |   |                       |
| 353    | 4800             | 3 70             | 61,300  | 47                    | 59,600  | 47                    | 58,000  | 47                    | 56,300  | 46                    | 53,500  | 43                    | 43,500  | 34                    |   |                       |
| 368    | 5000             | 4 05             | 64,500  | 54                    | 62,900  | 54                    | 61,200  | 54                    | 59,400  | 54                    | 57,700  | 52                    | 50,700  | 41                    | 33,200  | 29                    |
| 386    | 5250             | 4 44             |   |                       | 66,800  | 62                    | 65,300  | 62                    | 63,600  | 62                    | 62,000  | 60                    | 57,300  | 54                    | 47,700  | 44                    |
| 404    | 5500             | 4 88             |   |                       | 70,600  | 70                    | 69,300  | 70                    | 67,500  | 70                    | 66,000  | 70                    | 62,700  | 66                    | 56,300  | 58                    |
| 423    | 5750             | 5 33             |   |                       | 74,500  | 82                    | 73,100  | 82                    | 71,700  | 82                    | 70,300  | 82                    | 67,400  | 80                    | 62,700  | 72                    |
| 441    | 6000             | 5 80             |   |                       |   |                       |   |                       | 75,700  | 92                    | 74,300  | 92                    | 71,500  | 92                    | 67,800  | 86                    |
| 459    | 6250             | 6 30             |   |                       |   |                       |   |                       | 79,500  | 105                   | 78,400  | 105                   | 75,500  | 100                   | 72,700  | 100                   |
| 478    | 6500             | 6 81             |   |                       |   |                       |   |                       | 83,700  | 115                   | 82,200  | 115                   | 79,500  | 115                   | 77,000  | 115                   |
| 496    | 6750             | 7 34             |   |                       |   |                       |   |                       | 87,500  | 130                   | 86,200  | 130                   | 83,700  | 130                   | 81,300  | 130                   |
| 514    | 7000             | 7 89             |   |                       |   |                       |   |                       |   |                       | 90,000  | 145                   | 87,800  | 145                   | 85,500  | 145                   |
| 550    | 7500             | 9 06             |   |                       |   |                       |   |                       |   |                       |   |                       | 95,700  | 180                   | 93,200  | 180                   |
| 587    | 8000             | 10 32            |   |                       |   |                       |   |                       |   |                       |   |                       |   | 101,000               | 220   |                       |
| 624    | 8500             | 11 63            |   |                       |   |                       |   |                       |   |                       |   |                       |   | 109,000               | 260   |                       |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 3 1/2" Water 2.02 ozs. per sq. inch | Pressure 3 1/2" Water | Static Pressure 4" Water 2.31 ozs. per sq. inch     | Pressure 4" Water     | Static Pressure 4 1/2" Water 2.89 ozs. per sq. inch | Pressure 4 1/2" Water | Static Pressure 5" Water 3.47 ozs. per sq. inch     | Pressure 5" Water     | Static Pressure 6" Water 4.05 ozs. per sq. inch     | Pressure 6" Water     | Static Pressure 7" Water 4.63 ozs. per sq. inch     | Pressure 7" Water     | Static Pressure 8" Water 5.2 ozs. per sq. inch      | Pressure 8" Water     |
| 404    | 5500             | 4 88             | 42,400  | 44                    |   |                       |   |                       |   |                       |   |                       |   |                       |   |                       |
| 423    | 5750             | 5 33             | 54,600  | 62                    | 34,600  | 40                    |   |                       |   |                       |   |                       |   |                       |   |                       |
| 441    | 6000             | 5 80             | 62,400  | 78                    | 52,000  | 64                    |   |                       |   |                       |   |                       |   |                       |   |                       |
| 459    | 6250             | 6 30             | 68,900  | 94                    | 61,900  | 80                    |   |                       |   |                       |   |                       |   |                       |   |                       |
| 478    | 6500             | 6 81             | 74,000  | 110                   | 69,000  | 98                    | 46,000  | 68                    |   |                       |   |                       |   |                       |   |                       |
| 496    | 6750             | 7 34             | 78,400  | 130                   | 74,700  | 120                   | 60,000  | 92                    |   |                       |   |                       |   |                       |   |                       |
| 514    | 7000             | 7 89             | 83,000  | 145                   | 79,800  | 140                   | 69,600  | 110                   |   |                       |   |                       |   |                       |   |                       |
| 550    | 7500             | 9 06             | 91,100  | 180                   | 88,800  | 180                   | 82,800  | 160                   | 70,300  | 135                   |   |                       |   |                       |   |                       |
| 587    | 8000             | 10 32            | 99,000  | 220                   | 97,300  | 220                   | 92,700  | 210                   | 85,800  | 190                   | 71,200  | 155                   |   |                       |   |                       |
| 624    | 8500             | 11 63            | 107,000   | 260                   | 105,000   | 260                   | 101,000   | 260                   | 96,500  | 245                   | 88,500  | 220                   | 73,800  | 180                   |   |                       |
| 660    | 9000             | 13 05            | 115,000   | 310                   | 113,000   | 310                   | 110,000   | 310                   | 105,000   | 305                   | 101,000   | 285                   | 92,500  | 255                   | 77,700  | 195                   |
| 697    | 9500             | 14 53            | 123,000   | 365                   | 121,000   | 365                   | 117,000   | 365                   | 114,000   | 365                   | 110,000   | 365                   | 105,000   | 330                   | 96,500  | 300                   |
| 733    | 10000            | 16 20            |   |                       | 129,000   | 430                   | 126,000   | 430                   | 123,000   | 430                   | 119,000   | 425                   | 115,000   | 410                   | 110,000   | 385                   |

Single Inlet

**No. 12 Multivane Fan — Design 2**

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. |
|--------|------------------|------------------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|
|        |                  |                  | Static Pressure 1/2" Water .0722 ozs. per sq. inch  |       | Static Pressure 1/2" Water .145 ozs. per sq. inch   |       | Static Pressure 3/4" Water .217 ozs. per sq. inch   |       | Static Pressure 1" Water .289 ozs. per sq. inch     |       | Static Pressure 1 1/4" Water .361 ozs. per sq. inch |       | Static Pressure 1 1/2" Water .434 ozs. per sq. inch |       | Static Pressure 1 3/4" Water .506 ozs. per sq. inch |       |
| 70     | 1050             | 179              | 10,900  | 0.41  |   |       |   |       |   |       |   |       |   |       |   |       |
| 80     | 1200             | 233              | 16,600  | 0.84  |   |       |   |       |   |       |   |       |   |       |   |       |
| 93     | 1400             | 316              | 20,900  | 1.45  |   |       |   |       |   |       |   |       |   |       |   |       |
| 106    | 1600             | 412              | 25,000  | 2.05  | 20,600  | 1.80  |   |       |   |       |   |       |   |       |   |       |
| 120    | 1800             | 520              | 28,800  | 3.9   | 25,900  | 3.00  | 17,000  | 1.90  |   |       |   |       |   |       |   |       |
| 133    | 2000             | 645              |   |       | 30,200  | 4.25  | 26,500  | 3.65  |   |       |   |       |   |       |   |       |
| 146    | 2200             | 780              |   |       | 34,200  | 5.6   | 31,600  | 5.5   | 26,700  | 4.4   |   |       |   |       |   |       |
| 159    | 2400             | 930              |   |       | 38,400  | 7.2   | 35,700  | 7.2   | 33,000  | 6.6   | 27,000  | 5.3   |   |       |   |       |
| 173    | 2600             | 1 09             |   |       | 42,000  | 9.2   | 39,800  | 9.2   | 37,800  | 9.0   | 34,700  | 8.1   | 27,900  | 6.4   |   |       |
| 186    | 2800             | 1 26             |   |       |   |       | 43,800  | 11.5  | 41,800  | 11.5  | 39,900  | 11.0  | 36,500  | 9.8   | 29,400  | 7.8   |
| 199    | 3000             | 1 45             |   |       |   |       | 47,700  | 14.0  | 45,900  | 14.0  | 44,100  | 14.0  | 42,000  | 13.5  | 38,500  | 12.0  |
| 212    | 3200             | 1 65             |   |       |   |       | 51,600  | 17.5  | 49,800  | 17.5  | 48,300  | 17.5  | 46,500  | 17.0  | 44,500  | 16.0  |
| 226    | 3400             | 1 86             |   |       |   |       |   |       | 53,800  | 20.5  | 52,200  | 20.5  | 50,500  | 20.5  | 49,200  | 20.5  |
| 239    | 3600             | 2 10             |   |       |   |       |   |       | 57,600  | 24.5  | 56,200  | 24.5  | 54,600  | 24.5  | 53,200  | 24.5  |
| 252    | 3800             | 2 32             |   |       |   |       |   |       |   |       | 60,100  | 30    | 59,000  | 30    | 57,300  | 30    |
| 265    | 4000             | 2 58             |   |       |   |       |   |       |   |       | 63,900  | 34    | 62,800  | 34    | 61,200  | 34    |
| 279    | 4200             | 2 85             |   |       |   |       |   |       |   |       |   |       | 66,700  | 39    | 65,300  | 39    |
| 290    | 4400             | 3 13             |   |       |   |       |   |       |   |       |   |       | 70,400  | 45    | 69,100  | 45    |
| 305    | 4600             | 3 41             |   |       |   |       |   |       |   |       |   |       |   |       | 73,200  | 52    |
| 318    | 4800             | 3 70             |   |       |   |       |   |       |   |       |   |       |   |       | 77,100  | 58    |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 ozs. per sq. inch     |       | Static Pressure 1 1/4" Water .723 ozs. per sq. inch |       | Static Pressure 1 1/2" Water .878 ozs. per sq. inch |       | Static Pressure 1 3/4" Water 1.01 ozs. per sq. inch |       | Static Pressure 2" Water 1.16 ozs. per sq. inch     |       | Static Pressure 2 1/2" Water 1.45 ozs. per sq. inch |       | Static Pressure 3" Water 1.73 ozs. per sq. inch     |       |
| 199    | 3000             | 1 45             | 32,100  | 9.8   |   |       |   |       |   |       |   |       |   |       |   |       |
| 212    | 3200             | 1 65             | 41,000  | 14.5  |   |       |   |       |   |       |   |       |   |       |   |       |
| 226    | 3400             | 1 86             | 46,900  | 19    | 38,400  | 15    |   |       |   |       |   |       |   |       |   |       |
| 239    | 3600             | 2 10             | 51,800  | 24    | 46,600  | 21    | 35,000  | 15.5  |   |       |   |       |   |       |   |       |
| 252    | 3800             | 2 32             | 56,000  | 29    | 52,600  | 27    | 45,600  | 22.5  |   |       |   |       |   |       |   |       |
| 265    | 4000             | 2 58             | 59,800  | 34    | 57,100  | 33    | 52,600  | 29    | 44,300  | 24    |   |       |   |       |   |       |
| 279    | 4200             | 2 85             | 61,000  | 39    | 61,500  | 38    | 58,300  | 37    | 53,200  | 32    | 42,800  | 26    |   |       |   |       |
| 290    | 4400             | 3 13             | 68,300  | 45    | 65,700  | 45    | 63,200  | 44    | 59,500  | 40    | 53,400  | 35    |   |       |   |       |
| 305    | 4600             | 3 41             | 72,200  | 52    | 70,000  | 52    | 67,500  | 50    | 65,000  | 49    | 60,500  | 44    | 40,400  | 29    |   |       |
| 318    | 4800             | 3 70             | 75,800  | 58    | 73,600  | 58    | 71,500  | 58    | 69,500  | 56    | 66,100  | 51    | 53,800  | 42    |   |       |
| 332    | 5000             | 4 05             | 79,800  | 66    | 77,700  | 66    | 75,700  | 66    | 73,500  | 66    | 70,800  | 64    | 62,600  | 54    | 41,100  | 36    |
| 348    | 5250             | 4 44             |   |       | 82,600  | 76    | 80,800  | 76    | 78,500  | 76    | 76,500  | 76    | 70,800  | 68    | 58,900  | 54    |
| 365    | 5500             | 4 88             |   |       | 87,200  | 88    | 85,600  | 88    | 83,400  | 88    | 81,600  | 88    | 77,500  | 82    | 69,500  | 72    |
| 381    | 5750             | 5 33             |   |       | 92,200  | 100   | 90,400  | 100   | 88,700  | 100   | 86,900  | 100   | 83,200  | 98    | 77,500  | 90    |
| 398    | 6000             | 5 80             |   |       |   |       | 95,500  | 115   | 93,400  | 115   | 91,800  | 115   | 88,300  | 115   | 83,800  | 105   |
| 414    | 6250             | 6 30             |   |       |   |       |   |       | 98,400  | 125   | 96,900  | 125   | 93,300  | 125   | 89,800  | 125   |
| 431    | 6500             | 6 81             |   |       |   |       |   |       | 104,000   | 145   | 102,000   | 145   | 98,400  | 145   | 95,400  | 145   |
| 448    | 6750             | 7 34             |   |       |   |       |   |       | 108,000   | 160   | 107,000   | 160   | 104,000   | 160   | 100,000   | 160   |
| 464    | 7000             | 7 89             |   |       |   |       |   |       |   |       | 111,000   | 180   | 109,000   | 180   | 106,000   | 180   |
| 497    | 7500             | 9 06             |   |       |   |       |   |       |   |       |   |       | 118,000   | 220   | 115,000   | 220   |
| 531    | 8000             | 10 32            |   |       |   |       |   |       |   |       |   |       |   |       | 125,000   | 270   |
| 564    | 8500             | 11 63            |   |       |   |       |   |       |   |       |   |       |   |       | 135,000   | 325   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 3 1/2" Water 2.02 ozs. per sq. inch |       | Static Pressure 4" Water 2.31 ozs. per sq. inch     |       | Static Pressure 5" Water 2.89 ozs. per sq. inch     |       | Static Pressure 6" Water 3.47 ozs. per sq. inch     |       | Static Pressure 7" Water 4.05 ozs. per sq. inch     |       | Static Pressure 8" Water 4.63 ozs. per sq. inch     |       | Static Pressure 9" Water 5.2 ozs. per sq. inch      |       |
| 365    | 5500             | 4 88             | 52,400  | 54    |   |       |   |       |   |       |   |       |   |       |   |       |
| 381    | 5750             | 5 33             | 67,500  | 76    | 42,800  | 50    |   |       |   |       |   |       |   |       |   |       |
| 398    | 6000             | 5 80             | 77,100  | 96    | 64,300  | 78    |   |       |   |       |   |       |   |       |   |       |
| 414    | 6250             | 6 30             | 85,100  | 115   | 76,500  | 98    |   |       |   |       |   |       |   |       |   |       |
| 431    | 6500             | 6 81             | 91,400  | 140   | 85,300  | 120   | 56,900  | 82    |   |       |   |       |   |       |   |       |
| 448    | 6750             | 7 34             | 96,900  | 160   | 92,300  | 145   | 74,200  | 115   |   |       |   |       |   |       |   |       |
| 464    | 7000             | 7 89             | 103,000   | 180   | 98,500  | 170   | 85,900  | 140   |   |       |   |       |   |       |   |       |
| 497    | 7500             | 9 06             | 113,000   | 220   | 110,000   | 220   | 102,000   | 200   | 86,900  | 165   |   |       |   |       |   |       |
| 531    | 8000             | 10 32            | 122,000   | 270   | 120,000   | 270   | 114,000   | 255   | 106,000   | 235   | 88,100  | 190   |   |       |   |       |
| 564    | 8500             | 11 63            | 133,000   | 325   | 130,000   | 325   | 125,000   | 320   | 119,000   | 305   | 109,000   | 270   | 91,200  | 225   |   |       |
| 597    | 9000             | 13 05            | 142,000   | 385   | 140,000   | 385   | 136,000   | 385   | 130,000   | 375   | 124,000   | 355   | 114,000   | 320   | 96,000  | 265   |
| 630    | 9500             | 14 53            | 152,000   | 450   | 150,000   | 450   | 145,000   | 450   | 141,000   | 450   | 136,000   | 440   | 130,000   | 410   | 119,000   | 370   |
| 664    | 10000            | 16 20            |   |       | 160,000   | 530   | 156,000   | 530   | 152,000   | 530   | 147,000   | 525   | 142,000   | 510   | 136,000   | 475   |

### Single Width

**When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances**

[illegible]

Single Inlet

## No. 14 Multivane Fan—Design 2

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M. H. P. Static Pressure 1/2" Water .0722 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1/4" Water .145 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1/8" Water .217 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1/4" Water .289 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1/2" Water .361 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 3/4" Water .434 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1" Water .506 ozs. per sq. inch |
|--------|------------------|------------------|--|---|---|---|---|---|---|
| 56     | 1050             | 179              | 15,800 0.59  |   |   |   |   |   |   |
| 67     | 1200             | 233              | 24,100 1.20  |   |   |   |   |   |   |
| 78     | 1400             | 316              | 30,300 2.10  |   |   |   |   |   |   |
| 89     | 1600             | 412              | 36,200 3.00  | 29,800 2.65   |   |   |   |   |   |
| 100    | 1800             | 520              | 41,600 4.3   | 37,500 4.3  | 24,500 2.7  |   |   |   |   |
| 111    | 2000             | 645              |  | 43,700 6.1  | 38,400 5.3  |   |   |   |   |
| 122    | 2200             | 780              |  | 49,600 8.1  | 45,800 8.0  | 38,700 6.4  |   |   |   |
| 133    | 2400             | 930              |  | 55,500 10.5   | 51,700 10.5   | 47,900 9.6  | 39,200 7.7  |   |   |
| 144    | 2600             | 1 09             |  | 60,800 13.5   | 57,600 13.5   | 54,600 13   | 50,200 12.0   | 40,500 9.3  |   |
| 155    | 2800             | 1 26             |  |   | 63,500 16.5   | 60,500 16.5   | 57,800 16.0   | 52,900 14   | 42,000 11.5   |
| 166    | 3000             | 1 45             |  |   | 69,000 20.5   | 66,500 20.5   | 64,000 20.5   | 60,900 19.5   | 55,800 17.5   |
| 177    | 3200             | 1 65             |  |   | 74,700 25   | 72,100 25   | 70,000 25   | 67,400 24.5   | 64,400 23   |
| 188    | 3400             | 1 86             |  |   |   | 78,000 30   | 75,600 30   | 73,200 30   | 71,300 30   |
| 199    | 3600             | 2 10             |  |   |   | 83,400 36   | 81,200 36   | 78,100 36   | 77,100 36   |
| 210    | 3800             | 2 32             |  |   |   |   | 87,100 43   | 85,400 43   | 83,000 43   |
| 221    | 4000             | 2 58             |  |   |   |   | 92,500 49   | 91,000 49   | 88,500 49   |
| 232    | 4200             | 2 85             |  |   |   |   | 96,800 56   | 94,500 56   | 91,500 56   |
| 243    | 4400             | 3 13             |  |   |   |   | 102,000 66  | 100,000 66  | 100,000 66  |
| 254    | 4600             | 3 41             |  |   |   |   |   | 106,000 74  | 106,000 74  |
| 266    | 4800             | 3 70             |  |   |   |   |   | 112,000 84  | 112,000 84  |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1 1/2" Water .578 ozs. per sq. inch                    | Static Pressure 1 1/4" Water .723 ozs. per sq. inch                   | Static Pressure 1 1/8" Water .878 ozs. per sq. inch                   | Static Pressure 1 1/4" Water 1.01 ozs. per sq. inch                   | Static Pressure 2" Water 1.16 ozs. per sq. inch                       | Static Pressure 2 1/4" Water 1.45 ozs. per sq. inch                   | Static Pressure 2 1/2" Water 1.73 ozs. per sq. inch                 |
| 166    | 3000             | 1 45             | 46,500 14  |   |   |   |   |   |   |
| 177    | 3200             | 1 65             | 59,400 21  |   |   |   |   |   |   |
| 188    | 3400             | 1 86             | 68,000 28  | 55,600 21.5   |   |   |   |   |   |
| 199    | 3600             | 2 10             | 75,100 35  | 67,500 30   | 50,600 22.5   |   |   |   |   |
| 210    | 3800             | 2 32             | 81,000 41  | 76,200 39   | 66,200 33   |   |   |   |   |
| 221    | 4000             | 2 58             | 86,500 49  | 82,700 48   | 76,200 42   | 64,100 35   |   |   |   |
| 232    | 4200             | 2 85             | 92,800 56  | 89,200 56   | 84,500 54   | 77,100 47   | 62,000 37   |   |   |
| 243    | 4400             | 3 13             | 99,000 66  | 95,100 66   | 91,600 64   | 86,300 58   | 77,400 52   |   |   |
| 254    | 4600             | 3 41             | 105,000 74   | 101,000 74  | 97,800 74   | 94,200 70   | 87,700 64   | 58,500 42   |   |
| 266    | 4800             | 3 70             | 110,000 84   | 107,000 84  | 104,000 84  | 101,000 82  | 95,600 76   | 78,000 60   |   |
| 277    | 5000             | 4 05             | 116,000 96   | 113,000 96  | 110,000 96  | 106,000 96  | 102,000 92  | 90,700 78   | 59,500 52   |
| 290    | 5250             | 4 41             |  | 120,000 110   | 117,000 110   | 114,000 110   | 111,000 110   | 102,000 98  | 85,400 80   |
| 304    | 5500             | 4 88             |  | 126,000 125   | 124,000 125   | 121,000 125   | 118,000 125   | 112,000 120   | 101,000 105   |
| 318    | 5750             | 5 33             |  | 134,000 145   | 131,000 145   | 129,000 145   | 126,000 145   | 121,000 140   | 112,000 130   |
| 332    | 6000             | 5 80             |  |   |   | 135,000 165   | 133,000 165   | 128,000 165   | 121,000 155   |
| 346    | 6250             | 6 30             |  |   |   | 142,000 185   | 140,000 185   | 135,000 185   | 130,000 180   |
| 359    | 6500             | 6 81             |  |   |   | 150,000 210   | 147,000 210   | 142,000 210   | 138,000 205   |
| 373    | 6750             | 7 34             |  |   |   | 157,000 235   | 154,000 235   | 150,000 235   | 146,000 235   |
| 387    | 7000             | 7 89             |  |   |   |   | 161,000 265   | 157,000 265   | 153,000 265   |
| 414    | 7500             | 9 06             |  |   |   |   |   | 171,000 320   | 167,000 320   |
| 442    | 8000             | 10 32            |  |   |   |   |   |   | 181,000 390   |
| 470    | 8500             | 11 63            |  |   |   |   |   |   | 196,000 470   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 3 1/2" Water 2.02 ozs. per sq. inch                    | Static Pressure 4" Water 2.31 ozs. per sq. inch                       | Static Pressure 5" Water 2.89 ozs. per sq. inch                       | Static Pressure 6" Water 3.47 ozs. per sq. inch                       | Static Pressure 7" Water 4.05 ozs. per sq. inch                       | Static Pressure 8" Water 4.63 ozs. per sq. inch                       | Static Pressure 9" Water 5.2 ozs. per sq. inch                      |
| 304    | 5500             | 4 88             | 75,900 78  |   |   |   |   |   |   |
| 318    | 5750             | 5 33             | 97,800 110   | 62,000 72   |   |   |   |   |   |
| 332    | 6000             | 5 80             | 112,000 140  | 93,000 115  |   |   |   |   |   |
| 346    | 6250             | 6 30             | 123,000 170  | 111,000 140   |   |   |   |   |   |
| 359    | 6500             | 6 81             | 132,000 200  | 124,000 175   | 82,500 120  |   |   |   |   |
| 373    | 6750             | 7 34             | 140,000 230  | 134,000 210   | 108,000 165   |   |   |   |   |
| 387    | 7000             | 7 89             | 148,000 260  | 143,000 250   | 124,000 200   |   |   |   |   |
| 414    | 7500             | 9 06             | 163,000 320  | 159,000 320   | 148,000 290   | 126,000 240   |   |   |   |
| 442    | 8000             | 10 32            | 177,000 390  | 174,000 390   | 166,000 370   | 154,000 340   | 128,000 275   |   |   |
| 470    | 8500             | 11 63            | 192,000 470  | 188,000 470   | 181,000 460   | 173,000 440   | 158,000 395   | 132,000 320   |   |
| 497    | 9000             | 13 05            | 206,000 560  | 203,000 560   | 197,000 560   | 188,000 545   | 180,000 510   | 165,000 460   | 139,000 380   |
| 525    | 9500             | 14 53            | 220,000 655  | 217,000 655   | 210,000 655   | 204,000 655   | 197,000 640   | 188,000 590   | 173,000 630   |
| 553    | 10000            | 16 20            |  | 231,000 770   | 225,000 770   | 220,000 770   | 213,000 760   | 206,000 735   | 197,000 690   |

Single Inlet

## No. 15 Multivane Fan — Design 2

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M. | H. P. |
|--------|------------------|------------------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---------------|-------|
|        |                  |                  | Static Pressure 1/2" Water .0722 ozs. per sq. inch  |       | Static Pressure 1/2" Water .145 ozs. per sq. inch   |       | Static Pressure 3/4" Water .217 ozs. per sq. inch   |       | Static Pressure 1" Water .289 ozs. per sq. inch     |       | Static Pressure 1 1/4" Water .361 ozs. per sq. inch |       | Static Pressure 1 1/2" Water .434 ozs. per sq. inch |       | Static Pressure 1 3/4" Water .506 ozs. per sq. inch |       |               |       |
| 54     | 1050             | 179              | 18,500  | 0.69  |   |       |   |       |   |       |   |       |   |       |   |       |               |       |
| 62     | 1200             | 233              | 28,200  | 1.45  |   |       |   |       |   |       |   |       |   |       |   |       |               |       |
| 72     | 1400             | 316              | 35,500  | 2.45  |   |       |   |       |   |       |   |       |   |       |   |       |               |       |
| 82     | 1600             | 412              | 42,400  | 3.45  | 35,000  | 3.1   |   |       |   |       |   |       |   |       |   |       |               |       |
| 92     | 1800             | 520              | 48,800  | 5.1   | 44,000  | 5.1   | 28,800  | 3.2   |   |       |   |       |   |       |   |       |               |       |
| 102    | 2000             | 645              |   |       | 51,300  | 7.2   | 45,100  | 6.2   |   |       |   |       |   |       |   |       |               |       |
| 113    | 2200             | 780              |   |       | 58,200  | 9.4   | 53,700  | 9.4   | 15,400  | 7.5   |   |       |   |       |   |       |               |       |
| 123    | 2400             | 930              |   |       | 65,200  | 12.5  | 60,700  | 12.5  | 56,200  | 11.5  | 45,900  | 9.0   |   |       |   |       |               |       |
| 133    | 2600             | 1.09             |   |       | 71,400  | 15.5  | 67,600  | 15.5  | 64,100  | 15.5  | 58,800  | 14.0  | 47,500  | 11.0  |   |       |               |       |
| 143    | 2800             | 1.26             |   |       |   |       | 74,500  | 19.5  | 71,000  | 19.5  | 67,800  | 18.5  | 62,000  | 16.5  | 50,000  | 13.0  |               |       |
| 153    | 3000             | 1.45             |   |       |   |       | 81,100  | 24    | 78,000  | 24    | 75,000  | 24    | 71,400  | 22.5  | 65,500  | 20.5  |               |       |
| 163    | 3200             | 1.65             |   |       |   |       | 87,700  | 29    | 84,600  | 29    | 82,200  | 29    | 79,000  | 29    | 75,600  | 27    |               |       |
| 174    | 3400             | 1.86             |   |       |   |       |   |       | 91,500  | 35    | 88,700  | 35    | 86,000  | 35    | 83,700  | 35    |               |       |
| 184    | 3600             | 2.10             |   |       |   |       |   |       | 98,000  | 42    | 95,400  | 42    | 92,900  | 42    | 90,500  | 42    |               |       |
| 194    | 3800             | 2.32             |   |       |   |       |   |       |   |       | 102,000   | 50    | 100,000   | 50    | 97,300  | 50    |               |       |
| 204    | 4000             | 2.58             |   |       |   |       |   |       |   |       | 108,000   | 58    | 107,000   | 58    | 104,000   | 58    |               |       |
| 215    | 4200             | 2.85             |   |       |   |       |   |       |   |       |   |       | 113,000   | 66    | 111,000   | 66    |               |       |
| 225    | 4400             | 3.13             |   |       |   |       |   |       |   |       |   |       | 120,000   | 76    | 117,000   | 76    |               |       |
| 235    | 4600             | 3.41             |   |       |   |       |   |       |   |       |   |       |   |       | 124,000   | 88    |               |       |
| 245    | 4800             | 3.70             |   |       |   |       |   |       |   |       |   |       |   |       | 131,000   | 100   |               |       |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 ozs. per sq. inch     |       | Static Pressure 1 1/4" Water .723 ozs. per sq. inch |       | Static Pressure 1 1/2" Water .878 ozs. per sq. inch |       | Static Pressure 1 3/4" Water 1.01 ozs. per sq. inch |       | Static Pressure 2" Water 1.16 ozs. per sq. inch     |       | Static Pressure 2 1/2" Water 1.45 ozs. per sq. inch |       | Static Pressure 3" Water 1.73 ozs. per sq. inch     |       |               |       |
| 153    | 3000             | 1.45             | 54,600  | 16.5  |   |       |   |       |   |       |   |       |   |       |   |       |               |       |
| 163    | 3200             | 1.65             | 60,500  | 24.5  |   |       |   |       |   |       |   |       |   |       |   |       |               |       |
| 174    | 3400             | 1.86             | 70,800  | 32    | 65,200  | 25    |   |       |   |       |   |       |   |       |   |       |               |       |
| 184    | 3600             | 2.10             | 88,000  | 41    | 79,200  | 35    | 59,400  | 26    |   |       |   |       |   |       |   |       |               |       |
| 194    | 3800             | 2.32             | 95,100  | 49    | 89,500  | 45    | 77,600  | 38    |   |       |   |       |   |       |   |       |               |       |
| 204    | 4000             | 2.58             | 102,000   | 58    | 97,000  | 56    | 89,400  | 50    | 75,200  | 41    |   |       |   |       |   |       |               |       |
| 215    | 4200             | 2.85             | 109,000   | 66    | 105,000   | 66    | 99,100  | 64    | 90,500  | 52    | 72,800  | 41    |   |       |   |       |               |       |
| 225    | 4400             | 3.13             | 116,000   | 76    | 112,000   | 76    | 107,000   | 74    | 101,000   | 68    | 90,700  | 60    |   |       |   |       |               |       |
| 235    | 4600             | 3.41             | 123,000   | 88    | 119,000   | 88    | 115,000   | 86    | 111,000   | 84    | 103,000   | 76    | 68,600  | 50    |   |       |               |       |
| 245    | 4800             | 3.70             | 129,000   | 100   | 125,000   | 100   | 122,000   | 100   | 118,000   | 96    | 112,000   | 90    | 91,500  | 72    |   |       |               |       |
| 255    | 5000             | 4.05             | 135,000   | 115   | 132,000   | 115   | 129,000   | 115   | 125,000   | 110   | 120,000   | 110   | 106,000   | 92    | 69,900  | 60    |               |       |
| 268    | 5250             | 4.44             |   |       | 140,000   | 130   | 137,000   | 130   | 133,000   | 130   | 130,000   | 130   | 120,000   | 115   | 100,000   | 92    |               |       |
| 281    | 5500             | 4.88             |   |       | 148,000   | 150   | 145,000   | 150   | 142,000   | 150   | 139,000   | 150   | 132,000   | 140   | 118,000   | 125   |               |       |
| 294    | 5750             | 5.33             |   |       | 157,000   | 170   | 154,000   | 170   | 151,000   | 170   | 148,000   | 170   | 142,000   | 165   | 132,000   | 155   |               |       |
| 306    | 6000             | 5.80             |   |       |   |       |   |       | 159,000   | 190   | 156,000   | 190   | 150,000   | 190   | 142,000   | 180   |               |       |
| 319    | 6250             | 6.30             |   |       |   |       |   |       | 167,000   | 215   | 165,000   | 215   | 158,000   | 215   | 152,000   | 210   |               |       |
| 332    | 6500             | 6.81             |   |       |   |       |   |       | 176,000   | 245   | 173,000   | 245   | 167,000   | 245   | 162,000   | 245   |               |       |
| 345    | 6750             | 7.34             |   |       |   |       |   |       | 184,000   | 275   | 181,000   | 275   | 176,000   | 275   | 170,000   | 275   |               |       |
| 357    | 7000             | 7.89             |   |       |   |       |   |       |   |       | 189,000   | 310   | 181,000   | 310   | 180,000   | 310   |               |       |
| 382    | 7500             | 9.06             |   |       |   |       |   |       |   |       |   |       | 201,000   | 380   | 196,000   | 380   |               |       |
| 408    | 8000             | 10.32            |   |       |   |       |   |       |   |       |   |       |   |       | 213,000   | 460   |               |       |
| 433    | 8500             | 11.63            |   |       |   |       |   |       |   |       |   |       |   |       | 230,000   | 550   |               |       |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 3 1/2" Water 2.02 ozs. per sq. inch |       | Static Pressure 4" Water 2.31 ozs. per sq. inch     |       | Static Pressure 5" Water 2.89 ozs. per sq. inch     |       | Static Pressure 6" Water 3.47 ozs. per sq. inch     |       | Static Pressure 7" Water 4.05 ozs. per sq. inch     |       | Static Pressure 8" Water 4.63 ozs. per sq. inch     |       | Static Pressure 9" Water 5.2 ozs. per sq. inch      |       |               |       |
| 281    | 5500             | 4.88             | 89,000  | 92    |   |       |   |       |   |       |   |       |   |       |   |       |               |       |
| 294    | 5750             | 5.33             | 115,000   | 130   | 72,800  | 84    |   |       |   |       |   |       |   |       |   |       |               |       |
| 306    | 6000             | 5.80             | 131,000   | 165   | 109,000   | 135   |   |       |   |       |   |       |   |       |   |       |               |       |
| 319    | 6250             | 6.30             | 145,000   | 195   | 130,000   | 165   |   |       |   |       |   |       |   |       |   |       |               |       |
| 332    | 6500             | 6.81             | 155,000   | 235   | 145,000   | 210   | 96,600  | 140   |   |       |   |       |   |       |   |       |               |       |
| 345    | 6750             | 7.34             | 165,000   | 270   | 157,000   | 250   | 126,000   | 195   |   |       |   |       |   |       |   |       |               |       |
| 357    | 7000             | 7.89             | 174,000   | 300   | 167,000   | 290   | 146,000   | 235   |   |       |   |       |   |       |   |       |               |       |
| 382    | 7500             | 9.06             | 191,000   | 380   | 186,000   | 375   | 174,000   | 340   | 148,000   | 280   |   |       |   |       |   |       |               |       |
| 408    | 8000             | 10.32            | 208,000   | 460   | 204,000   | 460   | 195,800   | 435   | 180,000   | 400   | 150,000   | 320   |   |       |   |       |               |       |
| 433    | 8500             | 11.63            | 225,000   | 550   | 221,000   | 550   | 213,000   | 540   | 202,000   | 515   | 186,000   | 460   | 155,000   | 380   |   |       |               |       |
| 450    | 9000             | 13.05            | 242,000   | 655   | 238,000   | 655   | 231,000   | 655   | 221,000   | 640   | 212,000   | 600   | 194,000   | 540   | 163,000   | 445   |               |       |
| 485    | 9500             | 14.53            | 158,000   | 765   | 255,000   | 765   | 246,000   | 765   | 240,000   | 765   | 232,000   | 750   | 220,000   | 695   | 203,000   | 625   |               |       |
| 510    | 10000            | 16.20            |   |       | 271,000   | 900   | 264,000   | 900   | 258,000   | 900   | 250,000   | 895   | 242,000   | 865   | 231,000   | 805   |               |       |

Single Inlet

## No. 16 Multivane Fan — Design 2

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| PER CUBIC FOOT AGAINST CONTINUOUSLY MAINTAINED RESISTANCES |                     |                        |   |   |       |  |  |         |  |  |       |  |  |       |  |  |       |  |  |       |  |  |       |
|--|---------------------|------------------------|---|---|-------|--|--|---------|--|--|-------|--|--|-------|--|--|-------|--|--|-------|--|--|-------|
| R.P.M.   | Tip Speed<br>F.P.M. | S.N.D.<br>in<br>inches | Volume<br>C.F.M.  |   | H. P. | Volume<br>C.F.M.   |  | H. P.   | Volume<br>C.F.M.   |  | H. P. | Volume<br>C.F.M.   |  | H. P. | Volume<br>C.F.M.   |  | H. P. | Volume<br>C.F.M.   |  | H. P. | Volume<br>C.F.M.   |  | H. P. |
|  |                     |                        | Static Pressure<br>1 1/2" Water<br>.0722 oza. per<br>sq. inch | Static Pressure<br>1 1/2" Water<br>.0722 oza. per<br>sq. inch |       | Static Pressure<br>1 1/4" Water<br>.145 oza. per<br>sq. inch | Static Pressure<br>1 1/4" Water<br>.145 oza. per<br>sq. inch |         | Static Pressure<br>1 1/2" Water<br>.217 oza. per<br>sq. inch | Static Pressure<br>1 1/2" Water<br>.217 oza. per<br>sq. inch |       | Static Pressure<br>1 3/4" Water<br>.289 oza. per<br>sq. inch | Static Pressure<br>1 3/4" Water<br>.289 oza. per<br>sq. inch |       | Static Pressure<br>2" Water<br>.361 oza. per<br>sq. inch | Static Pressure<br>2" Water<br>.361 oza. per<br>sq. inch |       | Static Pressure<br>2 1/4" Water<br>.434 oza. per<br>sq. inch | Static Pressure<br>2 1/4" Water<br>.434 oza. per<br>sq. inch |       | Static Pressure<br>2 1/2" Water<br>.506 oza. per<br>sq. inch | Static Pressure<br>2 1/2" Water<br>.506 oza. per<br>sq. inch |       |
| 50   | 1050                | .179                   | 21,500  | 0.80  |       |  |  |         |  |  |       |  |  |       |  |  |       |  |  |       |  |  |       |
| 57   | 1200                | .233                   | 32,600  | 1.65  |       |  |  |         |  |  |       |  |  |       |  |  |       |  |  |       |  |  |       |
| 66   | 1400                | .316                   | 41,000  | 2.85  |       |  |  |         |  |  |       |  |  |       |  |  |       |  |  |       |  |  |       |
| 76   | 1600                | .412                   | 49,000  | 4.0   |       |  |  |         |  |  |       |  |  |       |  |  |       |  |  |       |  |  |       |
| 85   | 1800                | .520                   | 56,500  | 5.8   |       |  | 40,400   | 3.55    |  |  |       |  |  |       |  |  |       |  |  |       |  |  |       |
| 95   | 2000                | .645                   |   |   |       | 50,800   | 5.8  | 33,200  | 3.7  |  |       |  |  |       |  |  |       |  |  |       |  |  |       |
| 104  | 2200                | .780                   |   |   |       | 59,300   | 8.3  | 52,000  | 7.2  |  |       |  |  |       |  |  |       |  |  |       |  |  |       |
| 113  | 2400                | .930                   |   |   |       | 67,300   | 11.0   | 62,000  | 11   |  |       | 52,500   | 8.6  |       |  |  |       |  |  |       |  |  |       |
| 123  | 2600                | 1.09                   |   |   |       | 75,300   | 14.0   | 70,100  | 14   |  |       | 64,900   | 13.0   |       |  | 53,000   | 10.5  |  |  |       |  |  |       |
| 133  | 2800                | 1.26                   |   |   |       | 82,500   | 18.5   | 78,100  | 18.5   |  |       | 74,900   | 17.5   |       |  | 68,100   | 16.0  |  | 54,900   | 12.5  |  |  |       |
| 142  | 3000                | 1.45                   |   |   |       |  |  | 86,100  | 22.5   |  |       | 82,100   | 22.5   |       |  | 78,300   | 21.5  |  | 71,700   | 19    |  | 57,800   | 15.5  |
| 152  | 3200                | 1.65                   |   |   |       |  |  | 93,600  | 28   |  |       | 90,100   | 28   |       |  | 86,700   | 28    |  | 82,500   | 26    |  | 75,700   | 23.5  |
| 161  | 3400                | 1.86                   |   |   |       |  |  | 101,000 | 34   |  |       | 97,700   | 34   |       |  | 94,000   | 34    |  | 91,300   | 33    |  | 87,300   | 31    |
| 170  | 3600                | 2.10                   |   |   |       |  |  |         |  |  |       | 106,000  | 40   |       |  | 103,000  | 40    |  | 99,300   | 40    |  | 96,600   | 40    |
| 180  | 3800                | 2.32                   |   |   |       |  |  |         |  |  |       | 113,000  | 48   |       |  | 110,000  | 48    |  | 107,000  | 48    |  | 105,000  | 48    |
| 189  | 4000                | 2.58                   |   |   |       |  |  |         |  |  |       |  |  |       |  | 118,000  | 58    |  | 116,000  | 58    |  | 113,000  | 58    |
| 199  | 4200                | 2.85                   |   |   |       |  |  |         |  |  |       |  |  |       |  | 125,000  | 66    |  | 123,000  | 66    |  | 120,000  | 66    |
| 208  | 4400                | 3.13                   |   |   |       |  |  |         |  |  |       |  |  |       |  |  |       |  | 131,000  | 76    |  | 128,000  | 76    |
| 218  | 4600                | 3.41                   |   |   |       |  |  |         |  |  |       |  |  |       |  |  |       |  | 138,000  | 88    |  | 136,000  | 88    |
| 227  | 4800                | 3.70                   |   |   |       |  |  |         |  |  |       |  |  |       |  |  |       |  |  |       |  | 144,000  | 100   |
|  |                     |                        |   |   |       |  |  |         |  |  |       |  |  |       |  |  |       |  |  |       |  | 151,000  | 115   |
| R.P.M.   | Tip Speed<br>F.P.M. | S.N.D.<br>in<br>inches | Static Pressure<br>1 1/2" Water<br>.578 oza. per<br>sq. inch  |   | H. P. | Static Pressure<br>1 1/4" Water<br>.723 oza. per<br>sq. inch |  | H. P.   | Static Pressure<br>1 1/2" Water<br>.878 oza. per<br>sq. inch |  | H. P. | Static Pressure<br>1 3/4" Water<br>1.01 oza. per<br>sq. inch |  | H. P. | Static Pressure<br>2" Water<br>1.16 oza. per<br>sq. inch |  | H. P. | Static Pressure<br>2 1/4" Water<br>1.45 oza. per<br>sq. inch |  | H. P. | Static Pressure<br>2 1/2" Water<br>1.73 oza. per<br>sq. inch |  | H. P. |
|  |                     |                        |   |   |       |  |  |         |  |  |       |  |  |       |  |  |       |  |  |       |  |  |       |
| 112  | 3000                | 1.45                   | 63,100  | 19  |       |  |  |         |  |  |       |  |  |       |  |  |       |  |  |       |  |  |       |
| 152  | 3200                | 1.65                   | 80,500  | 28  |       |  |  |         |  |  |       |  |  |       |  |  |       |  |  |       |  |  |       |
| 161  | 3400                | 1.86                   | 92,100  | 37  |       | 75,300   | 29   |         |  |  |       |  |  |       |  |  |       |  |  |       |  |  |       |
| 170  | 3600                | 2.10                   | 102,000   | 47  |       | 91,500   | 41   |         | 68,600   | 31   |       |  |  |       |  |  |       |  |  |       |  |  |       |
| 180  | 3800                | 2.32                   | 110,000   | 56  |       | 103,000  | 52   |         | 89,600   | 41   |       |  |  |       |  |  |       |  |  |       |  |  |       |
| 189  | 4000                | 2.58                   | 117,000   | 66  |       | 112,000  | 64   |         | 103,000  | 58   |       | 86,800   | 47   |       |  |  |       |  |  |       |  |  |       |
| 199  | 4200                | 2.85                   | 126,000   | 76  |       | 121,000  | 76   |         | 115,000  | 72   |       | 105,000  | 64   |       | 84,100   | 50   |       |  |  |       |  |  |       |
| 208  | 4400                | 3.13                   | 134,000   | 88  |       | 129,000  | 88   |         | 124,000  | 86   |       | 117,000  | 80   |       | 105,000  | 70   |       |  |  |       |  |  |       |
| 218  | 4600                | 3.41                   | 142,000   | 100   |       | 137,000  | 100  |         | 133,000  | 100  |       | 128,000  | 96   |       | 119,000  | 88   |       |  |  |       |  |  |       |
| 227  | 4800                | 3.70                   | 149,000   | 115   |       | 145,000  | 115  |         | 141,000  | 115  |       | 137,000  | 110  |       | 130,000  | 105  |       | 79,300   | 58   |       |  |  |       |
| 237  | 5000                | 4.05                   | 157,000   | 130   |       | 153,000  | 130  |         | 149,000  | 130  |       | 144,000  | 130  |       | 139,000  | 125  |       | 106,000  | 82   |       |  |  |       |
| 248  | 5250                | 4.44                   |   |   |       | 162,000  | 150  |         | 159,000  | 150  |       | 154,000  | 150  |       | 150,000  | 145  |       | 123,000  | 105  |       | 80,700   | 70   |       |
| 260  | 5500                | 4.88                   |   |   |       | 172,000  | 175  |         | 168,000  | 175  |       | 164,000  | 170  |       | 160,000  | 170  |       | 139,000  | 130  |       | 116,000  | 105  |       |
| 272  | 5750                | 5.33                   |   |   |       | 181,000  | 195  |         | 177,000  | 195  |       | 174,000  | 195  |       | 171,000  | 195  |       | 152,000  | 165  |       | 137,000  | 140  |       |
| 284  | 6000                | 5.80                   |   |   |       |  |  |         |  |  |       |  |  |       |  |  |       | 164,000  | 195  |       | 152,000  | 175  |       |
| 296  | 6250                | 6.30                   |   |   |       |  |  |         |  |  |       | 184,000  | 220  |       | 180,000  | 220  |       | 174,000  | 220  |       | 165,000  | 210  |       |
| 308  | 6500                | 6.81                   |   |   |       |  |  |         |  |  |       | 193,000  | 250  |       | 190,000  | 250  |       | 183,000  | 250  |       | 176,000  | 245  |       |
| 319  | 6750                | 7.34                   |   |   |       |  |  |         |  |  |       | 203,000  | 280  |       | 200,000  | 280  |       | 193,000  | 280  |       | 187,000  | 280  |       |
| 331  | 7000                | 7.89                   |   |   |       |  |  |         |  |  |       | 212,000  | 320  |       | 209,000  | 320  |       | 203,000  | 320  |       | 197,000  | 320  |       |
| 355  | 7500                | 9.06                   |   |   |       |  |  |         |  |  |       |  |  |       | 219,000  | 360  |       | 213,000  | 360  |       | 207,000  | 360  |       |
| 378  | 8000                | 10.32                  |   |   |       |  |  |         |  |  |       |  |  |       |  |  |       | 232,000  | 435  |       | 226,000  | 435  |       |
| 402  | 8500                | 11.63                  |   |   |       |  |  |         |  |  |       |  |  |       |  |  |       |  |  |       | 246,000  | 540  |       |
|  |                     |                        |   |   |       |  |  |         |  |  |       |  |  |       |  |  |       |  |  |       | 265,000  | 635  |       |
| R.P.M.   | Tip Speed<br>F.P.M. | S.N.D.<br>in<br>inches | Static Pressure<br>3 1/2" Water<br>2.02 oza. per<br>sq. inch  |   | H. P. | Static Pressure<br>4" Water<br>2.31 oza. per<br>sq. inch     |  | H. P.   | Static Pressure<br>5" Water<br>2.89 oza. per<br>sq. inch     |  | H. P. | Static Pressure<br>6" Water<br>3.47 oza. per<br>sq. inch     |  | H. P. | Static Pressure<br>7" Water<br>4.05 oza. per<br>sq. inch |  | H. P. | Static Pressure<br>8" Water<br>4.63 oza. per<br>sq. inch     |  | H. P. | Static Pressure<br>9" Water<br>5.2 oza. per<br>sq. inch      |  | H. P. |
|  |                     |                        |   |   |       |  |  |         |  |  |       |  |  |       |  |  |       |  |  |       |  |  |       |
| 260  | 5500                | 4.88                   | 103,000   | 105   |       |  |  |         |  |  |       |  |  |       |  |  |       |  |  |       |  |  |       |
| 272  | 5750                | 5.33                   | 133,000   | 150   |       | 84,000   | 98   |         |  |  |       |  |  |       |  |  |       |  |  |       |  |  |       |
| 284  | 6000                | 5.80                   | 151,000   | 190   |       | 126,000  | 155  |         |  |  |       |  |  |       |  |  |       |  |  |       |  |  |       |
| 296  | 6250                | 6.30                   | 167,000   | 225   |       | 150,000  | 195  |         |  |  |       |  |  |       |  |  |       |  |  |       |  |  |       |
| 308  | 6500                | 6.81                   | 180,000   | 270   |       | 168,000  | 240  |         | 112,000  | 165  |       |  |  |       |  |  |       |  |  |       |  |  |       |
| 319  | 6750                | 7.34                   | 190,000   | 310   |       | 181,000  | 290  |         | 146,000  | 225  |       |  |  |       |  |  |       |  |  |       |  |  |       |
| 331  | 7000                | 7.89                   | 201,000   | 350   |       | 194,000  | 335  |         | 169,000  | 270  |       |  |  |       |  |  |       |  |  |       |  |  |       |
| 355  | 7500                | 9.06                   | 221,000   | 435   |       | 216,000  | 430  |         | 201,000  | 390  |       | 171,000  | 325  |       |  |  |       |  |  |       |  |  |       |
| 378  | 8000                | 10.32                  | 240,000   | 540   |       | 236,000  | 530  |         | 225,000  | 500  |       | 208,000  | 400  |       | 173,000  | 370  |       |  |  |       |  |  |       |
| 402  | 8500                | 11.63                  | 260,000   | 635   |       | 255,000  | 635  |         | 246,000  | 625  |       | 231,000  | 595  |       | 214,000  | 535  |       | 179,000  | 440  |       |  |  |       |
| 426  | 9000                | 13.05                  | 280,000   | 760   |       | 275,000  | 760  |         | 277,000  | 760  |       | 255,000  | 740  |       | 244,000  | 695  |       | 224,000  | 625  |       | 189,000  | 515  |       |
| 449  | 9500                | 14.53                  | 299,000   | 885   |       | 294,000  | 885  |         | 285,000  | 885  |       | 277,000  | 885  |       | 268,000  | 865  |       | 255,000  | 800  |       | 234,000  | 720  |       |
| 473  | 10000               | 16.30                  |   |   |       | 313,000  | 1040   |         | 306,000  | 1040   |       | 298,000  | 1040   |       | 288,000  | 1030   |       | 280,000  | 1000   |       | 268,000  | 935  |       |



Single Inlet

## No. 17 Multivane Fan — Design 2

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M. Static Pressure 1/2" Water .0722 ozs. per sq. inch | H. P. | Volume C.F.M. Static Pressure 1/2" Water .145 ozs. per sq. inch | H. P. | Volume C.F.M. Static Pressure 1/2" Water .217 ozs. per sq. inch | H. P. | Volume C.F.M. Static Pressure 1/2" Water .289 ozs. per sq. inch | H. P. | Volume C.F.M. Static Pressure 1/2" Water .361 ozs. per sq. inch | H. P. | Volume C.F.M. Static Pressure 1/2" Water .434 ozs. per sq. inch | H. P. | Volume C.F.M. Static Pressure 1/2" Water .506 ozs. per sq. inch | H. P. |
|--------|------------------|------------------|--|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|
| 46     | 1050             | 179              | 24,700   | 0.92  |   |       |   |       |   |       |   |       |   |       |   |       |
| 53     | 1200             | 233              | 37,500   | 1.90  |   |       |   |       |   |       |   |       |   |       |   |       |
| 62     | 1400             | 316              | 47,200   | 3.25  |   |       |   |       |   |       |   |       |   |       |   |       |
| 71     | 1600             | 412              | 56,500   | 4.6   | 46,500  | 4.1   |   |       |   |       |   |       |   |       |   |       |
| 80     | 1800             | 520              | 65,000   | 6.7   | 58,500  | 6.7   | 38,300  | 4.25  |   |       |   |       |   |       |   |       |
| 89     | 2000             | 645              |  |       | 68,100  | 9.6   | 59,800  | 8.3   |   |       |   |       |   |       |   |       |
| 98     | 2200             | 780              |  |       | 77,500  | 12.5  | 71,500  | 12.5  | 60,300  | 9.9   |   |       |   |       |   |       |
| 106    | 2400             | 930              |  |       | 86,600  | 16.5  | 80,600  | 16.5  | 74,600  | 15.0  | 61,000  | 12.0  |   |       |   |       |
| 115    | 2600             | 1.09             |  |       | 94,900  | 21    | 89,800  | 21    | 85,200  | 20.5  | 78,300  | 18.5  | 63,100  | 14.5  |   |       |
| 124    | 2800             | 1.26             |  |       |   |       | 99,000  | 26    | 94,500  | 26    | 90,000  | 25    | 82,500  | 22    | 66,400  | 17.5  |
| 133    | 3000             | 1.45             |  |       |   |       | 108,000   | 32    | 104,000   | 32    | 99,300  | 32    | 94,500  | 30    | 87,000  | 27    |
| 142    | 3200             | 1.65             |  |       |   |       | 117,000   | 39    | 112,000   | 39    | 109,000   | 39    | 105,000   | 38    | 100,000   | 36    |
| 151    | 3400             | 1.86             |  |       |   |       |   |       | 122,000   | 46    | 118,000   | 46    | 114,000   | 46    | 111,000   | 46    |
| 159    | 3600             | 2.10             |  |       |   |       |   |       | 130,000   | 56    | 127,000   | 56    | 123,000   | 56    | 120,000   | 56    |
| 168    | 3800             | 2.32             |  |       |   |       |   |       |   |       | 136,000   | 66    | 133,000   | 66    | 129,000   | 66    |
| 177    | 4000             | 2.58             |  |       |   |       |   |       |   |       | 144,000   | 76    | 142,000   | 76    | 138,000   | 76    |
| 186    | 4200             | 2.85             |  |       |   |       |   |       |   |       |   |       | 151,000   | 88    | 147,000   | 88    |
| 195    | 4400             | 3.13             |  |       |   |       |   |       |   |       |   |       | 159,000   | 100   | 156,000   | 100   |
| 201    | 4600             | 3.41             |  |       |   |       |   |       |   |       |   |       |   |       | 165,000   | 115   |
| 213    | 4800             | 3.70             |  |       |   |       |   |       |   |       |   |       |   |       | 174,000   | 130   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 ozs. per sq. inch                  | H. P. | Static Pressure 1 1/4" Water .723 ozs. per sq. inch             | H. P. | Static Pressure 1 1/2" Water .875 ozs. per sq. inch             | H. P. | Static Pressure 1 3/4" Water 1.01 ozs. per sq. inch             | H. P. | Static Pressure 2" Water 1.16 ozs. per sq. inch                 | H. P. | Static Pressure 2 1/2" Water 1.45 ozs. per sq. inch             | H. P. | Static Pressure 3" Water 1.73 ozs. per sq. inch                 | H. P. |
| 133    | 3000             | 1.45             | 72,500   | 22    |   |       |   |       |   |       |   |       |   |       |   |       |
| 142    | 3200             | 1.65             | 92,500   | 33    |   |       |   |       |   |       |   |       |   |       |   |       |
| 151    | 3400             | 1.86             | 106,000  | 43    | 86,600  | 34    |   |       |   |       |   |       |   |       |   |       |
| 159    | 3600             | 2.10             | 117,000  | 54    | 105,000   | 47    | 79,000  | 35    |   |       |   |       |   |       |   |       |
| 168    | 3800             | 2.32             | 126,000  | 64    | 119,000   | 60    | 103,000   | 50    |   |       |   |       |   |       |   |       |
| 177    | 4000             | 2.58             | 135,000  | 76    | 129,000   | 74    | 119,000   | 66    | 100,000   | 54    |   |       |   |       |   |       |
| 186    | 4200             | 2.85             | 145,000  | 88    | 139,000   | 86    | 132,000   | 82    | 120,000   | 72    | 96,700  | 58    |   |       |   |       |
| 195    | 4400             | 3.13             | 154,000  | 100   | 148,000   | 100   | 143,000   | 100   | 135,000   | 90    | 121,000   | 80    |   |       |   |       |
| 204    | 4600             | 3.41             | 163,000  | 115   | 158,000   | 115   | 152,000   | 115   | 147,000   | 110   | 137,000   | 100   | 91,200  | 66    |   |       |
| 213    | 4800             | 3.70             | 171,000  | 130   | 167,000   | 130   | 162,000   | 130   | 157,000   | 130   | 149,000   | 120   | 122,000   | 94    |   |       |
| 221    | 5000             | 4.05             | 180,000  | 150   | 175,000   | 150   | 171,000   | 150   | 166,000   | 150   | 160,000   | 145   | 141,000   | 120   | 92,800  | 80    |
| 232    | 5250             | 4.44             |  |       | 187,000   | 175   | 182,000   | 175   | 177,000   | 175   | 173,000   | 170   | 160,000   | 150   | 133,000   | 125   |
| 244    | 5500             | 4.88             |  |       | 197,000   | 225   | 194,000   | 205   | 188,000   | 200   | 184,000   | 200   | 175,000   | 185   | 157,000   | 165   |
| 255    | 5750             | 5.33             |  |       | 208,000   | 255   | 204,000   | 225   | 200,000   | 225   | 196,000   | 225   | 188,000   | 220   | 175,000   | 205   |
| 266    | 6000             | 5.80             |  |       |   |       |   |       | 211,000   | 255   | 207,000   | 255   | 199,000   | 255   | 189,000   | 240   |
| 277    | 6250             | 6.30             |  |       |   |       |   |       | 222,000   | 285   | 219,000   | 285   | 211,000   | 285   | 203,000   | 280   |
| 288    | 6500             | 6.81             |  |       |   |       |   |       | 234,000   | 325   | 230,000   | 325   | 222,000   | 325   | 215,000   | 320   |
| 299    | 6750             | 7.34             |  |       |   |       |   |       | 244,000   | 365   | 241,000   | 365   | 234,000   | 365   | 227,000   | 365   |
| 310    | 7000             | 7.89             |  |       |   |       |   |       |   |       | 252,000   | 410   | 245,000   | 410   | 239,000   | 410   |
| 332    | 7500             | 9.06             |  |       |   |       |   |       |   |       |   |       | 267,000   | 500   | 260,000   | 500   |
| 354    | 8000             | 10.32            |  |       |   |       |   |       |   |       |   |       |   |       | 283,000   | 610   |
| 376    | 8500             | 11.63            |  |       |   |       |   |       |   |       |   |       |   |       | 305,000   | 730   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 3 1/2" Water 2.02 ozs. per sq. inch              | H. P. | Static Pressure 4" Water 2.31 ozs. per sq. inch                 | H. P. | Static Pressure 5" Water 2.89 ozs. per sq. inch                 | H. P. | Static Pressure 6" Water 3.47 ozs. per sq. inch                 | H. P. | Static Pressure 7" Water 4.05 ozs. per sq. inch                 | H. P. | Static Pressure 8" Water 4.63 ozs. per sq. inch                 | H. P. | Static Pressure 9" Water 5.2 ozs. per sq. inch                  | H. P. |
| 244    | 5500             | 4.88             | 118,000  | 120   |   |       |   |       |   |       |   |       |   |       |   |       |
| 255    | 5750             | 5.33             | 152,000  | 170   | 96,700  | 110   |   |       |   |       |   |       |   |       |   |       |
| 266    | 6000             | 5.80             | 174,000  | 215   | 145,000   | 175   |   |       |   |       |   |       |   |       |   |       |
| 277    | 6250             | 6.30             | 192,000  | 260   | 173,000   | 220   |   |       |   |       |   |       |   |       |   |       |
| 288    | 6500             | 6.81             | 206,000  | 315   | 193,000   | 275   | 129,000   | 185   |   |       |   |       |   |       |   |       |
| 299    | 6750             | 7.34             | 219,000  | 355   | 208,000   | 330   | 168,000   | 255   |   |       |   |       |   |       |   |       |
| 310    | 7000             | 7.89             | 231,000  | 405   | 223,000   | 385   | 194,000   | 315   |   |       |   |       |   |       |   |       |
| 332    | 7500             | 9.06             | 254,000  | 500   | 248,000   | 500   | 231,000   | 450   | 196,000   | 375   |   |       |   |       |   |       |
| 354    | 8000             | 10.32            | 276,000  | 610   | 272,000   | 610   | 258,000   | 575   | 240,000   | 530   | 199,000   | 430   |   |       |   |       |
| 376    | 8500             | 11.63            | 299,000  | 730   | 294,000   | 730   | 283,000   | 720   | 269,000   | 685   | 247,000   | 615   | 206,000   | 505   |   |       |
| 398    | 9000             | 13.05            | 321,000  | 870   | 316,000   | 870   | 307,000   | 870   | 294,000   | 850   | 281,000   | 795   | 258,000   | 715   | 217,000   | 595   |
| 420    | 9500             | 14.53            | 344,000  | 1020  | 338,000   | 1020  | 328,000   | 1020  | 319,000   | 1020  | 308,000   | 995   | 293,000   | 920   | 270,000   | 830   |
| 443    | 10000            | 16.20            |  |       | 360,000   | 1200  | 352,000   | 1200  | 342,000   | 1200  | 332,000   | 1190  | 322,000   | 1150  | 307,000   | 1070  |

Single Inlet

## No. 18 Multivane Fan — Design 2

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                     | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. |
|--------|------------------|------------------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|
|        |                  |                  | Static Pressure 1/4" Water .0722 ozs. per sq. inch  |       | Static Pressure 1/4" Water .145 ozs. per sq. inch   |       | Static Pressure 1/4" Water .217 ozs. per sq. inch   |       | Static Pressure 1/4" Water .289 ozs. per sq. inch   |       | Static Pressure 1/4" Water .361 ozs. per sq. inch |       | Static Pressure 1/4" Water .434 ozs. per sq. inch   |       | Static Pressure 1/4" Water .506 ozs. per sq. inch   |       |
| 44     | 1050             | 179              | 28,000  | 1.05  |   |       |   |       |   |       |   |       |   |       |   |       |
| 50     | 1200             | 233              | 42,500  | 2.15  |   |       |   |       |   |       |   |       |   |       |   |       |
| 58     | 1400             | 316              | 53,500  | 3.7   |   |       |   |       |   |       |   |       |   |       |   |       |
| 66     | 1600             | 412              | 64,000  | 5.2   | 52,800  | 4.65  |   |       |   |       |   |       |   |       |   |       |
| 75     | 1800             | 520              | 73,600  | 7.6   | 66,800  | 7.6   | 43,400  | 4.8   |   |       |   |       |   |       |   |       |
| 83     | 2000             | 645              |   |       | 77,300  | 11.0  | 67,900  | 9.4   |   |       |   |       |   |       |   |       |
| 91     | 2200             | 780              |   |       | 87,700  | 14.5  | 81,000  | 14.0  | 68,400  | 11    |   |       |   |       |   |       |
| 100    | 2400             | 930              |   |       | 98,200  | 18.5  | 91,400  | 18.5  | 84,500  | 17    | 69,100  | 13.5  |   |       |   |       |
| 108    | 2600             | 1,09             |   |       | 108,000   | 23.5  | 102,000   | 23.5  | 96,500  | 23    | 88,800  | 21    | 71,500  | 16.5  |   |       |
| 116    | 2800             | 1,26             |   |       |   |       | 112,000   | 29    | 107,000   | 29    | 102,000   | 28    | 93,500  | 25    | 75,300  | 20    |
| 124    | 3000             | 1,45             |   |       |   |       | 122,000   | 36    | 118,000   | 36    | 113,000   | 36    | 108,000   | 34    | 98,700  | 31    |
| 133    | 3200             | 1,65             |   |       |   |       | 132,000   | 44    | 127,000   | 44    | 124,000   | 44    | 119,000   | 43    | 114,000   | 40    |
| 141    | 3400             | 1,86             |   |       |   |       |   |       | 138,000   | 52    | 134,000   | 52    | 130,000   | 52    | 126,000   | 48    |
| 149    | 3600             | 2,10             |   |       |   |       |   |       | 148,000   | 61    | 144,000   | 61    | 140,000   | 64    | 136,000   | 60    |
| 158    | 3800             | 2,32             |   |       |   |       |   |       |   |       | 144,000   | 64    | 140,000   | 64    | 136,000   | 62    |
| 166    | 4000             | 2,58             |   |       |   |       |   |       |   |       | 154,000   | 76    | 151,000   | 76    | 147,000   | 76    |
| 174    | 4200             | 2,85             |   |       |   |       |   |       |   |       | 163,000   | 86    | 161,000   | 86    | 157,000   | 86    |
| 182    | 4400             | 3,13             |   |       |   |       |   |       |   |       |   |       | 171,000   | 100   | 167,000   | 100   |
| 191    | 4600             | 3,41             |   |       |   |       |   |       |   |       |   |       | 180,000   | 115   | 177,000   | 115   |
| 199    | 4800             | 3,70             |   |       |   |       |   |       |   |       |   |       |   |       | 187,000   | 130   |
|        |                  |                  |   |       |   |       |   |       |   |       |   |       |   |       | 197,000   | 150   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 ozs. per sq. inch     |       | Static Pressure 1 1/4" Water .723 ozs. per sq. inch |       | Static Pressure 1 1/2" Water .878 ozs. per sq. inch |       | Static Pressure 1 3/4" Water 1.01 ozs. per sq. inch |       | Static Pressure 2" Water 1.16 ozs. per sq. inch   |       | Static Pressure 2 1/4" Water 1.45 ozs. per sq. inch |       | Static Pressure 2 1/2" Water 1.73 ozs. per sq. inch |       |
| 124    | 3000             | 1,45             | 82,200  | 25    |   |       |   |       |   |       |   |       |   |       |   |       |
| 133    | 3200             | 1,65             | 105,000   | 37    |   |       |   |       |   |       |   |       |   |       |   |       |
| 141    | 3400             | 1,86             | 120,000   | 49    | 98,100  | 38    |   |       |   |       |   |       |   |       |   |       |
| 149    | 3600             | 2,10             | 133,000   | 62    | 119,000   | 54    | 89,500  | 40    |   |       |   |       |   |       |   |       |
| 158    | 3800             | 2,32             | 143,000   | 74    | 135,000   | 68    | 117,000   | 58    |   |       |   |       |   |       |   |       |
| 166    | 4000             | 2,58             | 153,000   | 86    | 146,000   | 84    | 135,000   | 74    | 113,000   | 62    |   |       |   |       |   |       |
| 174    | 4200             | 2,85             | 164,000   | 100   | 158,000   | 98    | 149,000   | 94    | 136,000   | 82    | 110,000   | 66    |   |       |   |       |
| 182    | 4400             | 3,13             | 175,000   | 115   | 168,000   | 115   | 162,000   | 110   | 152,000   | 105   | 137,000   | 90    |   |       |   |       |
| 191    | 4600             | 3,41             | 185,000   | 130   | 179,000   | 130   | 173,000   | 130   | 167,000   | 125   | 155,000   | 115   |   |       |   |       |
| 199    | 4800             | 3,70             | 194,000   | 150   | 189,000   | 150   | 183,000   | 150   | 178,000   | 145   | 169,000   | 135   | 103,000   | 74    |   |       |
| 207    | 5000             | 4,05             | 204,000   | 170   | 199,000   | 170   | 194,000   | 170   | 188,000   | 170   | 181,000   | 165   | 160,000   | 140   | 105,000   | 92    |
| 218    | 5250             | 4,44             |   |       | 211,000   | 195   | 207,000   | 195   | 201,000   | 195   | 196,000   | 190   | 181,000   | 170   | 151,000   | 140   |
| 228    | 5500             | 4,88             |   |       | 224,000   | 225   | 219,000   | 225   | 214,000   | 225   | 209,000   | 225   | 198,000   | 210   | 178,000   | 185   |
| 239    | 5750             | 5,33             |   |       | 236,000   | 255   | 231,000   | 255   | 227,000   | 255   | 222,000   | 255   | 213,000   | 250   | 198,000   | 230   |
| 249    | 6000             | 5,80             |   |       |   |       | 244,000   | 290   | 239,000   | 290   | 235,000   | 290   | 226,000   | 290   | 215,000   | 270   |
| 259    | 6250             | 6,30             |   |       |   |       |   |       | 252,000   | 325   | 248,000   | 325   | 239,000   | 325   | 230,000   | 320   |
| 270    | 6500             | 6,81             |   |       |   |       |   |       | 265,000   | 370   | 260,000   | 370   | 252,000   | 370   | 244,000   | 365   |
| 280    | 6750             | 7,34             |   |       |   |       |   |       | 277,000   | 415   | 273,000   | 415   | 265,000   | 415   | 257,000   | 415   |
| 290    | 7000             | 7,89             |   |       |   |       |   |       |   |       | 285,000   | 465   | 278,000   | 465   | 270,000   | 465   |
| 311    | 7500             | 9,06             |   |       |   |       |   |       |   |       |   |       | 303,000   | 570   | 295,000   | 570   |
| 332    | 8000             | 10,32            |   |       |   |       |   |       |   |       |   |       |   |       | 321,000   | 690   |
| 352    | 8500             | 11,63            |   |       |   |       |   |       |   |       |   |       |   |       | 346,000   | 830   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 3 1/2" Water 2.62 ozs. per sq. inch |       | Static Pressure 4" Water 2.31 ozs. per sq. inch     |       | Static Pressure 5" Water 2.89 ozs. per sq. inch     |       | Static Pressure 6" Water 3.47 ozs. per sq. inch     |       | Static Pressure 7" Water 4.05 ozs. per sq. inch   |       | Static Pressure 8" Water 4.63 ozs. per sq. inch     |       | Static Pressure 9" Water 5.2 ozs. per sq. inch      |       |
| 228    | 5500             | 4,88             | 134,000   | 140   |   |       |   |       |   |       |   |       |   |       |   |       |
| 239    | 5750             | 5,33             | 173,000   | 195   | 110,000   | 125   |   |       |   |       |   |       |   |       |   |       |
| 249    | 6000             | 5,80             | 197,000   | 245   | 164,000   | 200   |   |       |   |       |   |       |   |       |   |       |
| 259    | 6250             | 6,30             | 218,000   | 295   | 196,000   | 250   |   |       |   |       |   |       |   |       |   |       |
| 270    | 6500             | 6,81             | 234,000   | 355   | 218,000   | 315   | 146,000   | 210   |   |       |   |       |   |       |   |       |
| 280    | 6750             | 7,34             | 248,000   | 405   | 236,000   | 375   | 190,000   | 290   |   |       |   |       |   |       |   |       |
| 290    | 7000             | 7,89             | 262,000   | 455   | 252,000   | 440   | 220,000   | 355   |   |       |   |       |   |       |   |       |
| 311    | 7500             | 9,06             | 288,000   | 570   | 281,000   | 565   | 262,000   | 510   | 222,000   | 425   |   |       |   |       |   |       |
| 332    | 8000             | 10,32            | 313,000   | 690   | 308,000   | 690   | 293,000   | 655   | 272,000   | 600   | 226,000   | 485   |   |       |   |       |
| 352    | 8500             | 11,63            | 339,000   | 830   | 333,000   | 830   | 320,000   | 815   | 305,000   | 775   | 280,000   | 695   | 234,000   | 570   |   |       |
| 373    | 9000             | 13,05            | 364,000   | 990   | 358,000   | 990   | 348,000   | 990   | 333,000   | 965   | 318,000   | 905   | 292,000   | 810   | 246,000   | 675   |
| 394    | 9500             | 14,53            | 390,000   | 1160  | 384,000   | 1160  | 372,000   | 1160  | 362,000   | 1150  | 349,000   | 1130  | 332,000   | 1040  | 306,000   | 940   |
| 415    | 10000            | 16,20            |   |       | 408,000   | 1360  | 398,000   | 1360  | 388,000   | 1360  | 376,000   | 1350  | 364,000   | 1300  | 349,000   | 1220  |

Single Inlet

**No. 20 Multivane Fan — Design 2**

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip<br>Speed<br>F.P.M. | S.N.D.<br>in<br>inches | Volume<br>C.F.M.   | H. P.   | Volume<br>C.F.M.  | H. P.   | Volume<br>C.F.M.  | H. P.   | Volume<br>C.F.M.  | H. P. | Volume<br>C.F.M. | H. P. | Volume<br>C.F.M. | H. P. | Volume<br>C.F.M. | H. P. |
|--------|------------------------|------------------------|--|---|---|---|---|---|---|-------|------------------|-------|------------------|-------|------------------|-------|
|        |                        |                        | Static Pressure<br>1½" Water<br>.0722 ozs. per<br>sq. inch | Static Pressure<br>1½" Water<br>.145 ozs. per<br>sq. inch | Static Pressure<br>1½" Water<br>.217 ozs. per<br>sq. inch | Static Pressure<br>1½" Water<br>.289 ozs. per<br>sq. inch | Static Pressure<br>1½" Water<br>.361 ozs. per<br>sq. inch | Static Pressure<br>1½" Water<br>.434 ozs. per<br>sq. inch | Static Pressure<br>1½" Water<br>.506 ozs. per<br>sq. inch |       |                  |       |                  |       |                  |       |
| 39     | 1050                   | 179                    | 35,300   | 1 3   |   |   |   |   |   |       |                  |       |                  |       |                  |       |
| 41     | 1200                   | 233                    | 53,800   | 2 7   |   |   |   |   |   |       |                  |       |                  |       |                  |       |
| 52     | 1400                   | 316                    | 67,000   | 4 7   |   |   |   |   |   |       |                  |       |                  |       |                  |       |
| 59     | 1600                   | 412                    | 80,800   | 6 6   | 66,700  | 5 9   |   |   |   |       |                  |       |                  |       |                  |       |
| 66     | 1800                   | 520                    | 93,000   | 9 6   | 83,800  | 9 6   | 51,900  | 6 1   |   |       |                  |       |                  |       |                  |       |
| 74     | 2000                   | 615                    |  |   | 97,600  | 13 5  | 85,800  | 12 0  |   |       |                  |       |                  |       |                  |       |
| 81     | 2200                   | 780                    |  |   | 111,000   | 18 0  | 102,000   | 18 0  | 86,500  | 14 0  |                  |       |                  |       |                  |       |
| 89     | 2400                   | 930                    |  |   | 124,000   | 23 5  | 115,000   | 23 5  | 107,000   | 21 5  | 87,500           | 17    |                  |       |                  |       |
| 96     | 2600                   | 1 09                   |  |   | 136,000   | 30  | 129,000   | 30  | 122,000   | 29    | 112,000          | 26    | 90,400           | 21    |                  |       |
| 103    | 2800                   | 1 26                   |  |   |   |   | 142,000   | 37  | 135,000   | 37    | 129,000          | 36    | 118,000          | 32    | 95,200           | 25    |
| 111    | 3000                   | 1 45                   |  |   |   |   | 154,000   | 46  | 148,000   | 46    | 143,000          | 46    | 136,000          | 43    | 125,000          | 39    |
| 118    | 3200                   | 1 65                   |  |   |   |   | 167,000   | 56  | 161,000   | 56    | 157,000          | 56    | 151,000          | 54    | 144,000          | 52    |
| 125    | 3400                   | 1 86                   |  |   |   |   |   |   | 174,000   | 66    | 169,000          | 66    | 164,000          | 66    | 159,000          | 66    |
| 133    | 3600                   | 2 10                   |  |   |   |   |   |   | 186,000   | 80    | 181,000          | 80    | 177,000          | 80    | 172,000          | 80    |
| 140    | 3800                   | 2 32                   |  |   |   |   |   |   |   |       | 195,000          | 96    | 191,000          | 96    | 185,000          | 96    |
| 148    | 4000                   | 2 58                   |  |   |   |   |   |   |   |       | 207,000          | 110   | 203,000          | 110   | 198,000          | 110   |
| 155    | 4200                   | 2 85                   |  |   |   |   |   |   |   |       |                  |       | 216,000          | 125   | 211,000          | 125   |
| 162    | 4400                   | 3 13                   |  |   |   |   |   |   |   |       |                  |       | 228,000          | 145   | 224,000          | 145   |
| 170    | 4600                   | 3 41                   |  |   |   |   |   |   |   |       |                  |       |                  |       | 237,000          | 165   |
| 177    | 4800                   | 3 70                   |  |   |   |   |   |   |   |       |                  |       |                  |       | 250,000          | 190   |

| R.P.M. | Tip<br>Speed<br>F.P.M. | S.N.D.<br>in<br>inches | Static Pressure<br>1½" Water<br>.578 ozs. per<br>sq. inch | Static Pressure<br>1½" Water<br>.723 ozs. per<br>sq. inch | Static Pressure<br>1½" Water<br>.878 ozs. per<br>sq. inch | Static Pressure<br>1½" Water<br>1.01 ozs. per<br>sq. inch | Static Pressure<br>2" Water<br>1.16 ozs. per<br>sq. inch | Static Pressure<br>2½" Water<br>1.45 ozs. per<br>sq. inch | Static Pressure<br>3" Water<br>1.73 ozs. per<br>sq. inch |     |
|--------|------------------------|------------------------|---|---|---|---|--|---|--|-----|
| 111    | 3000                   | 1 45                   | 104,000   | 32  |   |   |  |   |  |     |
| 118    | 3200                   | 1 65                   | 133,000   | 47  |   |   |  |   |  |     |
| 125    | 3400                   | 1 86                   | 152,000   | 62  | 124,000   | 48  |  |   |  |     |
| 133    | 3600                   | 2 10                   | 168,000   | 78  | 151,000   | 68  | 113,000  | 50  |  |     |
| 140    | 3800                   | 2 32                   | 181,000   | 92  | 170,000   | 86  | 148,000  | 72  |  |     |
| 148    | 4000                   | 2 58                   | 193,000   | 110   | 185,000   | 105   | 170,000  | 94  |  |     |
| 155    | 4200                   | 2 85                   | 207,000   | 125   | 199,000   | 120   | 172,000  | 105   |  |     |
| 162    | 4400                   | 3 13                   | 221,000   | 145   | 212,000   | 145   | 193,000  | 130   |  |     |
| 170    | 4600                   | 3 41                   | 234,000   | 165   | 226,000   | 165   | 210,000  | 160   |  |     |
| 177    | 4800                   | 3 70                   | 245,000   | 190   | 238,000   | 190   | 225,000  | 185   |  |     |
| 184    | 5000                   | 4 05                   | 258,000   | 215   | 252,000   | 215   | 238,000  | 215   | 238,000  | 215 |
| 194    | 5250                   | 4 41                   |   |   | 268,000   | 250   | 262,000  | 250   | 254,000  | 250 |
| 203    | 5500                   | 4 88                   |   |   | 282,000   | 285   | 277,000  | 285   | 270,000  | 285 |
| 212    | 5750                   | 5 33                   |   |   | 298,000   | 325   | 292,000  | 325   | 287,000  | 325 |
| 221    | 6000                   | 5 80                   |   |   |   |   | 302,000  | 365   | 297,000  | 365 |
| 231    | 6250                   | 6 30                   |   |   |   |   | 318,000  | 410   | 314,000  | 410 |
| 240    | 6500                   | 6 81                   |   |   |   |   | 335,000  | 465   | 329,000  | 465 |
| 249    | 6750                   | 7 31                   |   |   |   |   | 350,000  | 525   | 345,000  | 525 |
| 258    | 7000                   | 7 89                   |   |   |   |   |  |   | 360,000  | 585 |
| 277    | 7500                   | 9 06                   |   |   |   |   |  |   | 383,000  | 720 |
| 295    | 8000                   | 10 32                  |   |   |   |   |  |   |  |     |
| 313    | 8500                   | 11 63                  |   |   |   |   |  |   |  |     |

| R.P.M. | Tip<br>Speed<br>F.P.M. | S.N.D.<br>in<br>inches | Static Pressure<br>3½" Water<br>2.02 ozs. per<br>sq. inch | Static Pressure<br>4" Water<br>2.31 ozs. per<br>sq. inch | Static Pressure<br>5" Water<br>2.89 ozs. per<br>sq. inch | Static Pressure<br>6" Water<br>3.47 ozs. per<br>sq. inch | Static Pressure<br>7" Water<br>4.05 ozs. per<br>sq. inch | Static Pressure<br>8" Water<br>4.63 ozs. per<br>sq. inch | Static Pressure<br>9" Water<br>5.2 ozs. per<br>sq. inch |
|--------|------------------------|------------------------|---|--|--|--|--|--|---|
| 203    | 5500                   | 4 88                   | 170,000   | 175  |  |  |  |  |   |
| 212    | 5750                   | 5 33                   | 218,000   | 245  | 139,000  | 160  |  |  |   |
| 221    | 6000                   | 5 80                   | 250,000   | 310  | 208,000  | 255  |  |  |   |
| 231    | 6250                   | 6 30                   | 276,000   | 375  | 248,000  | 315  |  |  |   |
| 240    | 6500                   | 6 81                   | 296,000   | 450  | 276,000  | 395  | 184,000  | 270  |   |
| 249    | 6750                   | 7 34                   | 311,000   | 510  | 299,000  | 475  | 240,000  | 370  |   |
| 258    | 7000                   | 7 89                   | 332,000   | 580  | 319,000  | 555  | 278,000  | 450  |   |
| 277    | 7500                   | 9 06                   | 364,000   | 720  | 355,000  | 715  | 331,000  | 645  |   |
| 295    | 8000                   | 10 32                  | 396,000   | 875  | 389,000  | 875  | 372,000  | 825  |   |
| 313    | 8500                   | 11 63                  | 429,000   | 1050   | 420,000  | 1050   | 405,000  | 1030   |   |
| 332    | 9000                   | 13 05                  | 460,000   | 1250   | 453,000  | 1250   | 439,000  | 1250   |   |
| 350    | 9500                   | 14 53                  | 493,000   | 1460   | 485,000  | 1460   | 470,000  | 1460   |   |
| 369    | 10000                  | 16 20                  |   |  | 516,000  | 1720   | 504,000  | 1720   |   |

Single Inlet

**No. 22 Multivane Fan — Design 2**

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                      | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. |
|--------|------------------|------------------|---|-------|---|-------|---|-------|---|-------|--|-------|---|-------|---|-------|
|        |                  |                  | Static Pressure 1/2" Water .0722 ozs. per sq. inch  |       | Static Pressure 1/4" Water .145 ozs. per sq. inch   |       | Static Pressure 1/8" Water .217 ozs. per sq. inch   |       | Static Pressure 1/16" Water .289 ozs. per sq. inch  |       | Static Pressure 1/32" Water .361 ozs. per sq. inch |       | Static Pressure 1/64" Water .434 ozs. per sq. inch  |       | Static Pressure 1/128" Water .506 ozs. per sq. inch |       |
| 35     | 1050             | 179              | 43,600  | 1.65  |   |       |   |       |   |       |  |       |   |       |   |       |
| 40     | 1200             | 233              | 66,500  | 3.35  |   |       |   |       |   |       |  |       |   |       |   |       |
| 46     | 1400             | 316              | 83,000  | 5.8   |   |       |   |       |   |       |  |       |   |       |   |       |
| 53     | 1600             | 412              | 100,000   | 8.2   | 82,400  | 7.3   |   |       |   |       |  |       |   |       |   |       |
| 59     | 1800             | 520              | 115,000   | 12    | 104,000   | 12.0  | 67,900  | 7.5   |   |       |  |       |   |       |   |       |
| 66     | 2000             | 645              |   |       | 121,000   | 17.0  | 106,000   | 14.5  |   |       |  |       |   |       |   |       |
| 73     | 2200             | 780              |   |       | 137,000   | 22.5  | 127,000   | 22    | 107,000   | 17.5  |  |       |   |       |   |       |
| 80     | 2400             | 930              |   |       | 153,000   | 29    | 143,000   | 29    | 132,000   | 27    | 108,000  | 21    |   |       |   |       |
| 86     | 2600             | 1 09             |   |       | 168,000   | 37    | 159,000   | 37    | 151,000   | 36    | 139,000  | 32    | 112,000   | 26    |   |       |
| 93     | 2800             | 1 26             |   |       |   |       | 175,000   | 46    | 167,000   | 46    | 160,000  | 44    | 146,000   | 39    | 118,000   | 31    |
| 100    | 3000             | 1 45             |   |       |   |       | 191,000   | 56    | 184,000   | 56    | 177,000  | 56    | 168,000   | 54    | 154,000   | 48    |
| 106    | 3200             | 1 65             |   |       |   |       | 206,000   | 70    | 199,000   | 70    | 193,000  | 70    | 186,000   | 68    | 178,000   | 64    |
| 113    | 3400             | 1 86             |   |       |   |       |   |       | 215,000   | 82    | 209,000  | 82    | 202,000   | 82    | 197,000   | 82    |
| 119    | 3600             | 2 10             |   |       |   |       |   |       | 230,000   | 98    | 224,000  | 98    | 219,000   | 98    | 213,000   | 98    |
| 126    | 3800             | 2 32             |   |       |   |       |   |       |   |       | 241,000  | 120   | 236,000   | 120   | 229,000   | 120   |
| 133    | 4000             | 2 58             |   |       |   |       |   |       |   |       | 255,000  | 135   | 251,000   | 135   | 245,000   | 135   |
| 139    | 4200             | 2 85             |   |       |   |       |   |       |   |       |  |       | 267,000   | 155   | 261,000   | 155   |
| 146    | 4400             | 3 13             |   |       |   |       |   |       |   |       |  |       | 282,000   | 180   | 277,000   | 180   |
| 152    | 4600             | 3 41             |   |       |   |       |   |       |   |       |  |       |   |       | 293,000   | 205   |
| 159    | 4800             | 3 70             |   |       |   |       |   |       |   |       |  |       |   |       | 308,000   | 235   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 ozs. per sq. inch     |       | Static Pressure 1 1/4" Water .723 ozs. per sq. inch |       | Static Pressure 1 1/2" Water .878 ozs. per sq. inch |       | Static Pressure 1 3/4" Water 1.01 ozs. per sq. inch |       | Static Pressure 2" Water 1.16 ozs. per sq. inch    |       | Static Pressure 2 1/2" Water 1.45 ozs. per sq. inch |       | Static Pressure 3" Water 1.73 ozs. per sq. inch     |       |
| 100    | 3000             | 1 45             | 129,000   | 39    |   |       |   |       |   |       |  |       |   |       |   |       |
| 106    | 3200             | 1 65             | 164,000   | 58    |   |       |   |       |   |       |  |       |   |       |   |       |
| 113    | 3400             | 1 86             | 188,000   | 76    | 153,000   | 60    |   |       |   |       |  |       |   |       |   |       |
| 119    | 3600             | 2 10             | 207,000   | 96    | 186,000   | 84    | 140,000   | 62    |   |       |  |       |   |       |   |       |
| 126    | 3800             | 2 32             | 224,000   | 115   | 210,000   | 105   | 183,000   | 90    |   |       |  |       |   |       |   |       |
| 133    | 4000             | 2 58             | 239,000   | 135   | 228,000   | 130   | 210,000   | 115   | 177,000   | 96    |  |       |   |       |   |       |
| 139    | 4200             | 2 85             | 256,000   | 155   | 246,000   | 155   | 233,000   | 145   | 213,000   | 130   | 171,000  | 105   |   |       |   |       |
| 146    | 4400             | 3 13             | 273,000   | 180   | 263,000   | 180   | 253,000   | 175   | 238,000   | 160   | 214,000  | 140   |   |       |   |       |
| 152    | 4600             | 3 41             | 289,000   | 205   | 280,000   | 205   | 270,000   | 200   | 261,000   | 195   | 242,000  | 180   | 162,000   | 115   |   |       |
| 159    | 4800             | 3 70             | 304,000   | 235   | 295,000   | 235   | 286,000   | 235   | 278,000   | 230   | 264,000  | 210   | 215,000   | 165   |   |       |
| 166    | 5000             | 4 05             | 319,000   | 265   | 311,000   | 265   | 303,000   | 265   | 294,000   | 265   | 283,000  | 255   | 251,000   | 215   | 164,000   | 145   |
| 174    | 5250             | 4 44             |   |       | 330,000   | 310   | 323,000   | 310   | 314,000   | 310   | 306,000  | 300   | 283,000   | 270   | 236,000   | 220   |
| 182    | 5500             | 4 88             |   |       | 351,000   | 350   | 343,000   | 350   | 334,000   | 350   | 326,000  | 350   | 310,000   | 330   | 278,000   | 260   |
| 191    | 5750             | 5 33             |   |       | 369,000   | 400   | 362,000   | 400   | 355,000   | 400   | 348,000  | 400   | 333,000   | 395   | 310,000   | 360   |
| 199    | 6000             | 5 80             |   |       |   |       |   |       | 374,000   | 450   | 367,000  | 450   | 353,000   | 450   | 336,000   | 425   |
| 207    | 6250             | 6 30             |   |       |   |       |   |       | 393,000   | 505   | 388,000  | 505   | 373,000   | 505   | 359,000   | 500   |
| 216    | 6500             | 6 81             |   |       |   |       |   |       | 414,000   | 575   | 406,000  | 575   | 393,000   | 575   | 381,000   | 570   |
| 224    | 6750             | 7 34             |   |       |   |       |   |       | 432,000   | 650   | 426,000  | 650   | 414,000   | 650   | 402,000   | 650   |
| 232    | 7000             | 7 89             |   |       |   |       |   |       |   |       | 446,000  | 725   | 434,000   | 725   | 422,000   | 725   |
| 249    | 7500             | 9 06             |   |       |   |       |   |       |   |       |  |       | 473,000   | 890   | 461,000   | 890   |
| 265    | 8000             | 10 32            |   |       |   |       |   |       |   |       |  |       |   |       | 501,000   | 1080  |
| 282    | 8500             | 11 63            |   |       |   |       |   |       |   |       |  |       |   |       | 540,000   | 1290  |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 3 1/2" Water 2.02 ozs. per sq. inch |       | Static Pressure 4" Water 2.31 ozs. per sq. inch     |       | Static Pressure 5" Water 2.89 ozs. per sq. inch     |       | Static Pressure 6" Water 3.47 ozs. per sq. inch     |       | Static Pressure 7" Water 4.05 ozs. per sq. inch    |       | Static Pressure 8" Water 4.63 ozs. per sq. inch     |       | Static Pressure 9" Water 5.2 ozs. per sq. inch      |       |
| 182    | 5500             | 4 88             | 210,000   | 215   |   |       |   |       |   |       |  |       |   |       |   |       |
| 191    | 5750             | 5 33             | 270,000   | 300   | 171,000   | 200   |   |       |   |       |  |       |   |       |   |       |
| 199    | 6000             | 5 80             | 308,000   | 385   | 257,000   | 315   |   |       |   |       |  |       |   |       |   |       |
| 207    | 6250             | 6 30             | 341,000   | 465   | 306,000   | 390   |   |       |   |       |  |       |   |       |   |       |
| 216    | 6500             | 6 81             | 365,000   | 555   | 341,000   | 490   | 228,000   | 330   |   |       |  |       |   |       |   |       |
| 224    | 6750             | 7 34             | 388,000   | 630   | 369,000   | 585   | 297,000   | 455   |   |       |  |       |   |       |   |       |
| 232    | 7000             | 7 89             | 410,000   | 715   | 394,000   | 685   | 342,000   | 575   |   |       |  |       |   |       |   |       |
| 249    | 7500             | 9 06             | 450,000   | 890   | 439,000   | 880   | 409,000   | 800   | 348,000   | 660   |  |       |   |       |   |       |
| 265    | 8000             | 10 32            | 490,000   | 1080  | 481,000   | 1080  | 458,000   | 1040  | 424,000   | 840   | 353,000  | 760   |   |       |   |       |
| 282    | 8500             | 11 63            | 530,000   | 1290  | 520,000   | 1290  | 501,000   | 1270  | 477,000   | 1210  | 438,000  | 1090  | 365,000   | 890   |   |       |
| 299    | 9000             | 13 05            | 589,000   | 1540  | 560,000   | 1540  | 544,000   | 1540  | 520,000   | 1510  | 498,000  | 1410  | 457,000   | 1270  | 385,000   | 1050  |
| 315    | 9500             | 14 53            | 609,000   | 1810  | 600,000   | 1810  | 581,000   | 1810  | 565,000   | 1800  | 545,000  | 1700  | 519,000   | 1630  | 478,000   | 1470  |
| 332    | 10000            | 16 20            |   |       | 638,000   | 2120  | 623,000   | 2120  | 606,000   | 2120  | 587,000  | 2100  | 569,000   | 2030  | 545,000   | 1900  |

Single Inlet

**No. 24 Multivane Fan — Design 2**

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. |
|--------|------------------|------------------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|
|        |                  |                  | Static Pressure 1/2" Water .0722 ozs. per sq. inch  |       | Static Pressure 3/4" Water .145 ozs. per sq. inch   |       | Static Pressure 1" Water .217 ozs. per sq. inch     |       | Static Pressure 1 1/4" Water .289 ozs. per sq. inch |       | Static Pressure 1 1/2" Water .361 ozs. per sq. inch |       | Static Pressure 1 3/4" Water .434 ozs. per sq. inch |       | Static Pressure 2" Water .506 ozs. per sq. inch     |       |
| 32     | 1050             | 179              | 52,800  | 1.95  |   |       |   |       |   |       |   |       |   |       |   |       |
| 37     | 1200             | 233              | 80,500  | 4.05  |   |       |   |       |   |       |   |       |   |       |   |       |
| 42     | 1400             | 316              | 101,000   | 7.0   |   |       |   |       |   |       |   |       |   |       |   |       |
| 49     | 1600             | 412              | 121,000   | 9.9   | 99,700  | 8.8   |   |       |   |       |   |       |   |       |   |       |
| 55     | 1800             | 520              | 139,000   | 14.5  | 125,000   | 14.5  | 52,000  | 9.1   |   |       |   |       |   |       |   |       |
| 60     | 2000             | 645              |   |       | 146,000   | 20.5  | 128,000   | 18    |   |       |   |       |   |       |   |       |
| 67     | 2200             | 780              |   |       | 166,000   | 27    | 153,000   | 27    | 129,000   | 21    |   |       |   |       |   |       |
| 73     | 2400             | 930              |   |       | 186,000   | 35    | 173,000   | 35    | 160,000   | 32    | 131,000   | 26    |   |       |   |       |
| 79     | 2600             | 1 09             |   |       | 203,000   | 45    | 192,000   | 45    | 183,000   | 43    | 168,000   | 39    | 135,000   | 31    |   |       |
| 85     | 2800             | 1 26             |   |       |   |       | 212,000   | 56    | 202,000   | 56    | 193,000   | 51    | 177,000   | 47    | 142,000   | 38    |
| 91     | 3000             | 1 45             |   |       |   |       | 231,000   | 68    | 222,000   | 68    | 214,000   | 68    | 203,000   | 64    | 187,000   | 58    |
| 97     | 3200             | 1 65             |   |       |   |       | 250,000   | 84    | 241,000   | 84    | 234,000   | 84    | 225,000   | 82    | 215,000   | 76    |
| 103    | 3400             | 1 86             |   |       |   |       |   |       | 260,000   | 98    | 253,000   | 98    | 245,000   | 98    | 238,000   | 98    |
| 109    | 3600             | 2 10             |   |       |   |       |   |       | 279,000   | 120   | 272,000   | 120   | 264,000   | 120   | 258,000   | 120   |
| 115    | 3800             | 2 32             |   |       |   |       |   |       |   |       | 291,000   | 145   | 285,000   | 145   | 278,000   | 145   |
| 121    | 4000             | 2 58             |   |       |   |       |   |       |   |       | 309,000   | 165   | 304,000   | 165   | 296,000   | 165   |
| 127    | 4200             | 2 85             |   |       |   |       |   |       |   |       |   |       | 323,000   | 190   | 316,000   | 190   |
| 133    | 4400             | 3 13             |   |       |   |       |   |       |   |       |   |       | 340,000   | 215   | 334,000   | 215   |
| 140    | 4600             | 3 41             |   |       |   |       |   |       |   |       |   |       |   |       | 354,000   | 250   |
| 145    | 4800             | 3 70             |   |       |   |       |   |       |   |       |   |       |   |       | 373,000   | 280   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 ozs. per sq. inch     |       | Static Pressure 1 1/4" Water .723 ozs. per sq. inch |       | Static Pressure 1 1/2" Water .878 ozs. per sq. inch |       | Static Pressure 1 3/4" Water 1.01 ozs. per sq. inch |       | Static Pressure 2" Water 1.16 ozs. per sq. inch     |       | Static Pressure 2 1/4" Water 1.43 ozs. per sq. inch |       | Static Pressure 2 1/2" Water 1.73 ozs. per sq. inch |       |
| 91     | 3000             | 1 45             | 155,000   | 47    |   |       |   |       |   |       |   |       |   |       |   |       |
| 97     | 3200             | 1 65             | 198,000   | 70    |   |       |   |       |   |       |   |       |   |       |   |       |
| 103    | 3400             | 1 86             | 227,000   | 92    | 186,000   | 72    |   |       |   |       |   |       |   |       |   |       |
| 109    | 3600             | 2 10             | 250,000   | 115   | 226,000   | 100   | 160,000   | 76    |   |       |   |       |   |       |   |       |
| 115    | 3800             | 2 32             | 271,000   | 140   | 254,000   | 130   | 221,000   | 110   |   |       |   |       |   |       |   |       |
| 121    | 4000             | 2 58             | 289,000   | 165   | 276,000   | 160   | 255,000   | 140   | 214,000   | 115   |   |       |   |       |   |       |
| 127    | 4200             | 2 85             | 310,000   | 190   | 298,000   | 185   | 282,000   | 180   | 258,000   | 150   | 207,000   | 125   |   |       |   |       |
| 133    | 4400             | 3 13             | 330,000   | 215   | 318,000   | 215   | 306,000   | 210   | 288,000   | 195   | 258,000   | 170   |   |       |   |       |
| 140    | 4600             | 3 41             | 350,000   | 250   | 338,000   | 250   | 327,000   | 245   | 315,000   | 235   | 293,000   | 215   | 195,000   | 140   |   |       |
| 145    | 4800             | 3 70             | 367,000   | 280   | 356,000   | 280   | 346,000   | 280   | 336,000   | 275   | 320,000   | 255   | 260,000   | 200   |   |       |
| 151    | 5000             | 4 05             | 386,000   | 320   | 376,000   | 320   | 366,000   | 320   | 355,000   | 320   | 343,000   | 310   | 303,000   | 260   | 199,000   | 175   |
| 159    | 5250             | 4 44             |   |       | 400,000   | 370   | 391,000   | 370   | 380,000   | 370   | 370,000   | 365   | 342,000   | 325   | 285,000   | 265   |
| 167    | 5500             | 4 88             |   |       | 422,000   | 425   | 414,000   | 425   | 403,000   | 425   | 395,000   | 425   | 375,000   | 400   | 336,000   | 350   |
| 174    | 5750             | 5 33             |   |       | 445,000   | 485   | 437,000   | 485   | 429,000   | 485   | 420,000   | 485   | 403,000   | 475   | 375,000   | 435   |
| 181    | 6000             | 5 80             |   |       |   |       |   |       | 452,000   | 545   | 445,000   | 545   | 427,000   | 545   | 406,000   | 515   |
| 189    | 6250             | 6 30             |   |       |   |       |   |       | 476,000   | 610   | 469,000   | 610   | 451,000   | 610   | 434,000   | 605   |
| 197    | 6500             | 6 81             |   |       |   |       |   |       | 501,000   | 690   | 491,000   | 690   | 476,000   | 690   | 461,000   | 690   |
| 204    | 6750             | 7 34             |   |       |   |       |   |       | 523,000   | 785   | 516,000   | 785   | 500,000   | 785   | 486,000   | 785   |
| 211    | 7000             | 7 89             |   |       |   |       |   |       |   |       | 539,000   | 880   | 525,000   | 880   | 511,000   | 880   |
| 226    | 7500             | 9 06             |   |       |   |       |   |       |   |       |   |       | 572,000   | 1080  | 558,000   | 1080  |
| 241    | 8000             | 10 32            |   |       |   |       |   |       |   |       |   |       |   |       | 606,000   | 1310  |
| 256    | 8500             | 11 63            |   |       |   |       |   |       |   |       |   |       |   |       | 654,000   | 1580  |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 3 1/2" Water 2.02 ozs. per sq. inch |       | Static Pressure 4" Water 2.31 ozs. per sq. inch     |       | Static Pressure 5" Water 2.89 ozs. per sq. inch     |       | Static Pressure 6" Water 3.47 ozs. per sq. inch     |       | Static Pressure 7" Water 4.05 ozs. per sq. inch     |       | Static Pressure 8" Water 4.63 ozs. per sq. inch     |       | Static Pressure 9" Water 5.2 ozs. per sq. inch      |       |
| 167    | 5500             | 4 88             | 254,000   | 260   |   |       |   |       |   |       |   |       |   |       |   |       |
| 174    | 5750             | 5 33             | 326,000   | 305   | 207,000   | 240   |   |       |   |       |   |       |   |       |   |       |
| 181    | 6000             | 5 80             | 373,000   | 465   | 311,000   | 380   |   |       |   |       |   |       |   |       |   |       |
| 189    | 6250             | 6 30             | 412,000   | 560   | 370,000   | 475   |   |       |   |       |   |       |   |       |   |       |
| 197    | 6500             | 6 81             | 442,000   | 670   | 413,000   | 590   | 275,000   | 400   |   |       |   |       |   |       |   |       |
| 204    | 6750             | 7 34             | 469,000   | 765   | 446,000   | 710   | 359,000   | 550   |   |       |   |       |   |       |   |       |
| 211    | 7000             | 7 89             | 496,000   | 865   | 476,000   | 825   | 416,000   | 670   |   |       |   |       |   |       |   |       |
| 226    | 7500             | 9 06             | 545,000   | 1080  | 530,000   | 1070  | 494,000   | 965   | 420,000   | 800   |   |       |   |       |   |       |
| 241    | 8000             | 10 32            | 592,000   | 1310  | 582,000   | 1310  | 556,000   | 1250  | 513,000   | 1140  | 426,000   | 918   |   |       |   |       |
| 256    | 8500             | 11 63            | 641,000   | 1580  | 630,000   | 1580  | 605,000   | 1540  | 578,000   | 1470  | 529,000   | 1320  | 441,000   | 1080  |   |       |
| 271    | 9000             | 13 05            | 688,000   | 1870  | 677,000   | 1870  | 657,000   | 1870  | 629,000   | 1820  | 602,000   | 1710  | 552,000   | 1530  | 465,000   | 1270  |
| 287    | 9500             | 14 53            | 736,000   | 2180  | 725,000   | 2180  | 702,000   | 2180  | 683,000   | 2180  | 659,000   | 2130  | 628,000   | 1970  | 576,000   | 1780  |
| 302    | 10000            | 16 20            |   |       | 771,000   | 2570  | 752,000   | 2570  | 732,000   | 2570  | 710,000   | 2540  | 689,000   | 2460  | 658,000   | 2300  |

Single Inlet

## No. 26 Multivane Fan — Design 2

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed<br>F.P.M. | S.N.D.<br>in<br>inches | Volume<br>C.F.M.  | H. P.  | Volume<br>C.F.M.   | H. P.  | Volume<br>C.F.M.   | H. P.  | Volume<br>C.F.M.   | H. P.  | Volume<br>C.F.M.   | H. P.  | Volume<br>C.F.M.   | H. P.  | Volume<br>C.F.M.   | H. P.   |
|--------|---------------------|------------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|---|
|        |                     |                        | Static Pressure<br>1/2" Water<br>.0722 ozs. per<br>sq. inch | Static Pressure<br>1/2" Water<br>.145 ozs. per<br>sq. inch | Static Pressure<br>3/4" Water<br>.217 ozs. per<br>sq. inch | Static Pressure<br>1" Water<br>.289 ozs. per<br>sq. inch | Static Pressure<br>1 1/4" Water<br>.361 ozs. per<br>sq. inch | Static Pressure<br>1 1/2" Water<br>.434 ozs. per<br>sq. inch | Static Pressure<br>1 3/4" Water<br>.506 ozs. per<br>sq. inch | Static Pressure<br>2" Water<br>.578 ozs. per<br>sq. inch | Static Pressure<br>2 1/4" Water<br>.650 ozs. per<br>sq. inch | Static Pressure<br>2 1/2" Water<br>.723 ozs. per<br>sq. inch | Static Pressure<br>2 3/4" Water<br>.795 ozs. per<br>sq. inch | Static Pressure<br>3" Water<br>.868 ozs. per<br>sq. inch | Static Pressure<br>3 1/2" Water<br>.940 ozs. per<br>sq. inch | Static Pressure<br>4" Water<br>1.012 ozs. per<br>sq. inch |
| 29     | 1050                | 179                    | 62,800  | 2 35   |  |  |  |  |  |  |  |  |  |  |  |   |
| 34     | 1200                | 233                    | 95,700  | 4 85   |  |  |  |  |  |  |  |  |  |  |  |   |
| 39     | 1400                | 316                    | 120,000   | 8 3  |  |  |  |  |  |  |  |  |  |  |  |   |
| 44     | 1600                | 412                    | 144,000   | 12   | 119,000  | 10 5   |  |  |  |  |  |  |  |  |  |   |
| 50     | 1800                | 520                    | 166,000   | 17   | 149,000  | 17 0   | 97,700   | 11   |  |  |  |  |  |  |  |   |
| 56     | 2000                | 645                    |   |  | 174,000  | 24 5   | 153,000  | 21   |  |  |  |  |  |  |  |   |
| 61     | 2200                | 780                    |   |  | 197,000  | 32   | 182,000  | 32   |  |  |  |  |  |  |  |   |
| 67     | 2400                | 930                    |   |  | 218,000  | 42   | 206,000  | 54   | 154,000  | 26   |  |  |  |  |  |   |
| 72     | 2600                | 1 00                   |   |  | 242,000  | 54   | 229,000  | 62   | 190,000  | 38   | 156,000  | 31   |  |  |  |   |
| 78     | 2800                | 1 26                   |   |  |  |  | 221,000  | 52   | 200,000  | 47   |  |  | 161,000  | 37   |  |   |
| 83     | 3000                | 1 45                   |   |  |  |  | 253,000  | 66   | 241,000  | 64   |  |  | 210,000  | 56   | 169,000  | 45  |
| 89     | 3200                | 1 65                   |   |  |  |  | 275,000  | 82   | 264,000  | 82   |  |  | 242,000  | 76   | 222,000  | 68  |
| 94     | 3400                | 1 86                   |   |  |  |  | 297,000  | 100  | 286,000  | 100  |  |  | 268,000  | 98   | 256,000  | 92  |
| 100    | 3600                | 2 10                   |   |  |  |  |  |  | 310,000  | 120  | 301,000  | 120  | 292,000  | 120  | 284,000  | 115   |
| 106    | 3800                | 2 32                   |   |  |  |  |  |  | 332,000  | 140  | 323,000  | 140  | 315,000  | 140  | 307,000  | 140   |
| 111    | 4000                | 2 58                   |   |  |  |  |  |  |  |  | 346,000  | 170  | 340,000  | 170  | 330,000  | 170   |
| 116    | 4200                | 2 85                   |   |  |  |  |  |  |  |  | 368,000  | 195  | 362,000  | 195  | 352,000  | 195   |
| 122    | 4400                | 3 13                   |   |  |  |  |  |  |  |  |  |  | 384,000  | 225  | 376,000  | 225   |
| 128    | 4600                | 3 41                   |   |  |  |  |  |  |  |  |  |  | 405,000  | 260  | 398,000  | 260   |
| 133    | 4800                | 3 70                   |   |  |  |  |  |  |  |  |  |  |  |  | 422,000  | 295   |
|        |                     |                        |   |  |  |  |  |  |  |  |  |  |  |  | 444,000  | 335   |
| 83     | 3000                | 1 45                   | 185,000   | 56   |  |  |  |  |  |  |  |  |  |  |  |   |
| 89     | 3200                | 1 65                   | 236,000   | 84   |  |  |  |  |  |  |  |  |  |  |  |   |
| 94     | 3400                | 1 86                   | 270,000   | 110  | 221,000  | 86   |  |  |  |  |  |  |  |  |  |   |
| 100    | 3600                | 2 10                   | 298,000   | 140  | 268,000  | 120  | 201,000  | 90   |  |  |  |  |  |  |  |   |
| 106    | 3800                | 2 32                   | 322,000   | 165  | 303,000  | 155  | 263,000  | 130  |  |  |  |  |  |  |  |   |
| 111    | 4000                | 2 58                   | 344,000   | 195  | 329,000  | 190  | 303,000  | 170  | 255,000  | 140  |  |  |  |  |  |   |
| 116    | 4200                | 2 85                   | 369,000   | 225  | 355,000  | 220  | 336,000  | 210  | 307,000  | 185  | 247,000  | 150  |  |  |  |   |
| 122    | 4400                | 3 13                   | 393,000   | 260  | 378,000  | 260  | 364,000  | 250  | 343,000  | 230  | 308,000  | 205  |  |  |  |   |
| 128    | 4600                | 3 41                   | 416,000   | 295  | 403,000  | 295  | 389,000  | 290  | 375,000  | 280  | 349,000  | 255  | 233,000  | 170  |  |   |
| 133    | 4800                | 3 70                   | 437,000   | 335  | 424,000  | 335  | 412,000  | 335  | 400,000  | 330  | 380,000  | 305  | 310,000  | 240  |  |   |
| 139    | 5000                | 4 05                   | 460,000   | 380  | 448,000  | 380  | 436,000  | 380  | 423,000  | 380  | 408,000  | 365  | 360,000  | 310  | 236,000  | 205   |
| 146    | 5250                | 4 44                   |   |  | 475,000  | 445  | 465,000  | 445  | 452,000  | 445  | 440,000  | 430  | 408,000  | 385  | 339,000  | 315   |
| 153    | 5500                | 4 88                   |   |  | 512,000  | 505  | 491,000  | 505  | 480,000  | 505  | 470,000  | 505  | 446,000  | 475  | 400,000  | 415   |
| 160    | 5750                | 5 33                   |   |  | 531,000  | 575  | 520,000  | 575  | 511,000  | 575  | 500,000  | 575  | 479,000  | 565  | 446,000  | 515   |
| 166    | 6000                | 5 80                   |   |  |  |  |  |  | 538,000  | 650  | 529,000  | 650  | 509,000  | 650  | 483,000  | 610   |
| 173    | 6250                | 6 30                   |   |  |  |  |  |  | 566,000  | 730  | 558,000  | 730  | 537,000  | 730  | 517,000  | 720   |
| 180    | 6500                | 6 81                   |   |  |  |  |  |  | 596,000  | 830  | 585,000  | 830  | 566,000  | 830  | 549,000  | 820   |
| 187    | 6750                | 7 34                   |   |  |  |  |  |  | 623,000  | 935  | 614,000  | 935  | 596,000  | 935  | 578,000  | 935   |
| 194    | 7000                | 7 89                   |   |  |  |  |  |  |  |  | 611,000  | 1050   | 625,000  | 1050   | 608,000  | 1050  |
| 207    | 7500                | 9 06                   |   |  |  |  |  |  |  |  |  |  | 681,000  | 1280   | 664,000  | 1280  |
| 221    | 8000                | 10 32                  |   |  |  |  |  |  |  |  |  |  |  |  | 721,000  | 1560  |
| 235    | 8500                | 11 63                  |   |  |  |  |  |  |  |  |  |  |  |  | 778,000  | 1860  |
| 153    | 5500                | 4 88                   | 302,000   | 310  |  |  |  |  |  |  |  |  |  |  |  |   |
| 160    | 5750                | 5 33                   | 389,000   | 435  | 247,000  | 285  |  |  |  |  |  |  |  |  |  |   |
| 166    | 6000                | 5 80                   | 444,000   | 550  | 370,000  | 450  |  |  |  |  |  |  |  |  |  |   |
| 173    | 6250                | 6 30                   | 490,000   | 665  | 440,000  | 565  |  |  |  |  |  |  |  |  |  |   |
| 180    | 6500                | 6 81                   | 526,000   | 800  | 491,000  | 705  | 328,000  | 475  |  |  |  |  |  |  |  |   |
| 187    | 6750                | 7 34                   | 558,000   | 910  | 531,000  | 845  | 428,000  | 655  |  |  |  |  |  |  |  |   |
| 194    | 7000                | 7 89                   | 590,000   | 1030   | 567,000  | 985  | 495,000  | 800  |  |  |  |  |  |  |  |   |
| 207    | 7500                | 9 06                   | 649,000   | 1280   | 631,000  | 1270   | 589,000  | 1150   | 500,000  | 955  |  |  |  |  |  |   |
| 221    | 8000                | 10 32                  | 705,000   | 1560   | 693,000  | 1560   | 660,000  | 1450   | 610,000  | 1350   |  |  |  |  |  |   |
| 235    | 8500                | 11 63                  | 763,000   | 1860   | 748,000  | 1860   | 721,000  | 1830   | 687,000  | 1740   | 508,000  | 1090   |  |  |  |   |
| 249    | 9000                | 13 05                  | 819,000   | 2220   | 806,000  | 2220   | 782,000  | 2220   | 749,000  | 2170   | 629,000  | 1570   | 525,000  | 1280   |  |   |
| 262    | 9500                | 14 53                  | 876,000   | 2600   | 863,000  | 2600   | 836,000  | 2600   | 812,000  | 2600   | 716,000  | 2030   | 657,000  | 1830   | 554,000  | 1520  |
| 276    | 10000               | 16 20                  |   |  | 919,000  | 3050   | 896,000  | 3050   | 873,000  | 3050   | 785,000  | 2540   | 746,000  | 2350   | 687,000  | 2120  |
|        |                     |                        |   |  |  |  |  |  |  |  | 845,000  | 3030   | 820,000  | 2930   | 785,000  | 2740  |

Single Inlet

**No. 24 Multivane Fan — Design 2**

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. |
|--------|------------------|------------------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|
|        |                  |                  | Static Pressure 1/2" Water .0722 ozs. per sq. inch  |       | Static Pressure 3/4" Water .145 ozs. per sq. inch   |       | Static Pressure 1" Water .217 ozs. per sq. inch     |       | Static Pressure 1 1/4" Water .289 ozs. per sq. inch |       | Static Pressure 1 1/2" Water .361 ozs. per sq. inch |       | Static Pressure 1 3/4" Water .434 ozs. per sq. inch |       | Static Pressure 2" Water .506 ozs. per sq. inch     |       |
| 32     | 1050             | 179              | 52,800  | 1.95  |   |       |   |       |   |       |   |       |   |       |   |       |
| 37     | 1200             | 233              | 80,500  | 4.05  |   |       |   |       |   |       |   |       |   |       |   |       |
| 42     | 1400             | 316              | 101,000   | 7.0   |   |       |   |       |   |       |   |       |   |       |   |       |
| 49     | 1600             | 412              | 121,000   | 9.9   | 99,700  | 8.8   |   |       |   |       |   |       |   |       |   |       |
| 55     | 1800             | 520              | 139,000   | 14.5  | 125,000   | 14.5  | 52,000  | 9.1   |   |       |   |       |   |       |   |       |
| 60     | 2000             | 645              |   |       | 146,000   | 20.5  | 128,000   | 18    |   |       |   |       |   |       |   |       |
| 67     | 2200             | 780              |   |       | 166,000   | 27    | 153,000   | 27    | 129,000   | 21    |   |       |   |       |   |       |
| 73     | 2400             | 930              |   |       | 186,000   | 35    | 173,000   | 35    | 160,000   | 32    | 131,000   | 26    |   |       |   |       |
| 79     | 2600             | 1 09             |   |       | 203,000   | 45    | 192,000   | 45    | 183,000   | 43    | 168,000   | 39    | 135,000   | 31    |   |       |
| 85     | 2800             | 1 26             |   |       |   |       | 212,000   | 56    | 202,000   | 56    | 193,000   | 51    | 177,000   | 47    | 142,000   | 38    |
| 91     | 3000             | 1 45             |   |       |   |       | 231,000   | 68    | 222,000   | 68    | 214,000   | 68    | 203,000   | 64    | 187,000   | 58    |
| 97     | 3200             | 1 65             |   |       |   |       | 250,000   | 84    | 241,000   | 84    | 234,000   | 84    | 225,000   | 82    | 215,000   | 76    |
| 103    | 3400             | 1 86             |   |       |   |       |   |       | 260,000   | 98    | 253,000   | 98    | 245,000   | 98    | 238,000   | 98    |
| 109    | 3600             | 2 10             |   |       |   |       |   |       | 279,000   | 120   | 272,000   | 120   | 264,000   | 120   | 258,000   | 120   |
| 115    | 3800             | 2 32             |   |       |   |       |   |       |   |       | 291,000   | 145   | 285,000   | 145   | 278,000   | 145   |
| 121    | 4000             | 2 58             |   |       |   |       |   |       |   |       | 309,000   | 165   | 304,000   | 165   | 296,000   | 165   |
| 127    | 4200             | 2 85             |   |       |   |       |   |       |   |       |   |       | 323,000   | 190   | 316,000   | 190   |
| 133    | 4400             | 3 13             |   |       |   |       |   |       |   |       |   |       | 340,000   | 215   | 334,000   | 215   |
| 140    | 4600             | 3 41             |   |       |   |       |   |       |   |       |   |       |   |       | 354,000   | 250   |
| 145    | 4800             | 3 70             |   |       |   |       |   |       |   |       |   |       |   |       | 373,000   | 280   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 ozs. per sq. inch     |       | Static Pressure 1 1/4" Water .723 ozs. per sq. inch |       | Static Pressure 1 1/2" Water .878 ozs. per sq. inch |       | Static Pressure 1 3/4" Water 1.01 ozs. per sq. inch |       | Static Pressure 2" Water 1.16 ozs. per sq. inch     |       | Static Pressure 2 1/4" Water 1.43 ozs. per sq. inch |       | Static Pressure 2 1/2" Water 1.73 ozs. per sq. inch |       |
| 91     | 3000             | 1 45             | 155,000   | 47    |   |       |   |       |   |       |   |       |   |       |   |       |
| 97     | 3200             | 1 65             | 198,000   | 70    |   |       |   |       |   |       |   |       |   |       |   |       |
| 103    | 3400             | 1 86             | 227,000   | 92    | 186,000   | 72    |   |       |   |       |   |       |   |       |   |       |
| 109    | 3600             | 2 10             | 250,000   | 115   | 226,000   | 100   | 160,000   | 76    |   |       |   |       |   |       |   |       |
| 115    | 3800             | 2 32             | 271,000   | 140   | 254,000   | 130   | 221,000   | 110   |   |       |   |       |   |       |   |       |
| 121    | 4000             | 2 58             | 289,000   | 165   | 276,000   | 160   | 255,000   | 140   | 214,000   | 115   |   |       |   |       |   |       |
| 127    | 4200             | 2 85             | 310,000   | 190   | 298,000   | 185   | 282,000   | 180   | 258,000   | 150   | 207,000   | 125   |   |       |   |       |
| 133    | 4400             | 3 13             | 330,000   | 215   | 318,000   | 215   | 306,000   | 210   | 288,000   | 195   | 258,000   | 170   |   |       |   |       |
| 140    | 4600             | 3 41             | 350,000   | 250   | 338,000   | 250   | 327,000   | 245   | 315,000   | 235   | 293,000   | 215   | 195,000   | 140   |   |       |
| 145    | 4800             | 3 70             | 367,000   | 280   | 356,000   | 280   | 346,000   | 280   | 336,000   | 275   | 320,000   | 255   | 260,000   | 200   |   |       |
| 151    | 5000             | 4 05             | 386,000   | 320   | 376,000   | 320   | 366,000   | 320   | 355,000   | 320   | 343,000   | 310   | 303,000   | 260   | 199,000   | 175   |
| 159    | 5250             | 4 44             |   |       | 400,000   | 370   | 391,000   | 370   | 380,000   | 370   | 370,000   | 365   | 342,000   | 325   | 285,000   | 265   |
| 167    | 5500             | 4 88             |   |       | 422,000   | 425   | 414,000   | 425   | 403,000   | 425   | 395,000   | 425   | 375,000   | 400   | 336,000   | 350   |
| 174    | 5750             | 5 33             |   |       | 445,000   | 485   | 437,000   | 485   | 429,000   | 485   | 420,000   | 485   | 403,000   | 475   | 375,000   | 435   |
| 181    | 6000             | 5 80             |   |       |   |       |   |       | 452,000   | 545   | 445,000   | 545   | 427,000   | 545   | 406,000   | 515   |
| 189    | 6250             | 6 30             |   |       |   |       |   |       | 476,000   | 610   | 469,000   | 610   | 451,000   | 610   | 434,000   | 605   |
| 197    | 6500             | 6 81             |   |       |   |       |   |       | 501,000   | 690   | 491,000   | 690   | 476,000   | 690   | 461,000   | 690   |
| 204    | 6750             | 7 34             |   |       |   |       |   |       | 523,000   | 785   | 516,000   | 785   | 500,000   | 785   | 486,000   | 785   |
| 211    | 7000             | 7 89             |   |       |   |       |   |       |   |       | 539,000   | 880   | 525,000   | 880   | 511,000   | 880   |
| 226    | 7500             | 9 06             |   |       |   |       |   |       |   |       |   |       | 572,000   | 1080  | 558,000   | 1080  |
| 241    | 8000             | 10 32            |   |       |   |       |   |       |   |       |   |       |   |       | 606,000   | 1310  |
| 256    | 8500             | 11 63            |   |       |   |       |   |       |   |       |   |       |   |       | 654,000   | 1580  |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 3 1/2" Water 2.02 ozs. per sq. inch |       | Static Pressure 4" Water 2.31 ozs. per sq. inch     |       | Static Pressure 5" Water 2.89 ozs. per sq. inch     |       | Static Pressure 6" Water 3.47 ozs. per sq. inch     |       | Static Pressure 7" Water 4.05 ozs. per sq. inch     |       | Static Pressure 8" Water 4.63 ozs. per sq. inch     |       | Static Pressure 9" Water 5.2 ozs. per sq. inch      |       |
| 167    | 5500             | 4 88             | 254,000   | 260   |   |       |   |       |   |       |   |       |   |       |   |       |
| 174    | 5750             | 5 33             | 326,000   | 305   | 207,000   | 240   |   |       |   |       |   |       |   |       |   |       |
| 181    | 6000             | 5 80             | 373,000   | 465   | 311,000   | 380   |   |       |   |       |   |       |   |       |   |       |
| 189    | 6250             | 6 30             | 412,000   | 560   | 370,000   | 475   |   |       |   |       |   |       |   |       |   |       |
| 197    | 6500             | 6 81             | 442,000   | 670   | 413,000   | 590   | 275,000   | 400   |   |       |   |       |   |       |   |       |
| 204    | 6750             | 7 34             | 469,000   | 765   | 446,000   | 710   | 359,000   | 550   |   |       |   |       |   |       |   |       |
| 211    | 7000             | 7 89             | 496,000   | 865   | 476,000   | 825   | 416,000   | 670   |   |       |   |       |   |       |   |       |
| 226    | 7500             | 9 06             | 545,000   | 1080  | 530,000   | 1070  | 494,000   | 965   | 420,000   | 800   |   |       |   |       |   |       |
| 241    | 8000             | 10 32            | 592,000   | 1310  | 582,000   | 1310  | 556,000   | 1250  | 513,000   | 1140  | 426,000   | 918   |   |       |   |       |
| 256    | 8500             | 11 63            | 641,000   | 1580  | 630,000   | 1580  | 605,000   | 1540  | 578,000   | 1470  | 529,000   | 1320  | 441,000   | 1080  |   |       |
| 271    | 9000             | 13 05            | 688,000   | 1870  | 677,000   | 1870  | 657,000   | 1870  | 629,000   | 1820  | 602,000   | 1710  | 552,000   | 1530  | 465,000   | 1270  |
| 287    | 9500             | 14 53            | 736,000   | 2180  | 725,000   | 2180  | 702,000   | 2180  | 683,000   | 2180  | 659,000   | 2130  | 628,000   | 1970  | 576,000   | 1780  |
| 302    | 10000            | 16 20            |   |       | 771,000   | 2570  | 752,000   | 2570  | 732,000   | 2570  | 710,000   | 2540  | 689,000   | 2460  | 658,000   | 2300  |

Double Inlet

# No. 3 Multivane Fan — Design 2

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.                                      |       | H. P.   |       | Volume C.F.M.                                     |       | H. P.   |      | Volume C.F.M.                                     |       | H. P.   |       | Volume C.F.M.                                     |       | H. P. |       | Volume C.F.M. |  | H. P. |  | Volume C.F.M. |  | H. P. |  | Volume C.F.M. |  | H. P. |  |
|--------|------------------|------------------|--|-------|---|-------|---|-------|---|------|---|-------|---|-------|---|-------|-------|-------|---------------|--|-------|--|---------------|--|-------|--|---------------|--|-------|--|
|        |                  |                  | Static Pressure 1/4" Water .0722 ozs. per sq. inch |       | Static Pressure 1/4" Water .145 ozs. per sq. inch |       | Static Pressure 3/8" Water .217 ozs. per sq. inch |       | Static Pressure 1/2" Water .289 ozs. per sq. inch |      | Static Pressure 5/8" Water .361 ozs. per sq. inch |       | Static Pressure 3/4" Water .434 ozs. per sq. inch |       | Static Pressure 7/8" Water .506 ozs. per sq. inch |       |       |       |               |  |       |  |               |  |       |  |               |  |       |  |
| 265    | 1000             | 0.147            | 682  | 0.024 |   |       |   |       |   |      |   |       |   |       |   |       |       |       |               |  |       |  |               |  |       |  |               |  |       |  |
| 318    | 1200             | 0.212            | 1,150  | 0.056 |   |       |   |       |   |      |   |       |   |       |   |       |       |       |               |  |       |  |               |  |       |  |               |  |       |  |
| 371    | 1400             | 0.288            | 1,530  | 0.099 | 910   | 0.082 |   |       |   |      |   |       |   |       |   |       |       |       |               |  |       |  |               |  |       |  |               |  |       |  |
| 424    | 1600             | 0.376            | 1,870  | 0.155 | 1,430   | 0.125 |   |       |   |      |   |       |   |       |   |       |       |       |               |  |       |  |               |  |       |  |               |  |       |  |
| 477    | 1800             | 0.476            | 2,200  | 0.23  | 1,830   | 0.20  | 1,380   | 0.155 |   |      |   |       |   |       |   |       |       |       |               |  |       |  |               |  |       |  |               |  |       |  |
| 530    | 2000             | 0.588            |  |       | 2,200   | 0.29  | 1,840   | 0.250 | 1,360   | 0.19 |   |       |   |       |   |       |       |       |               |  |       |  |               |  |       |  |               |  |       |  |
| 583    | 2200             | 0.711            |  |       | 2,540   | 0.40  | 2,230   | 0.365 | 1,880   | 0.31 | 1,380   | 0.235 |   |       |   |       |       |       |               |  |       |  |               |  |       |  |               |  |       |  |
| 636    | 2400             | 0.847            |  |       | 2,870   | 0.54  | 2,600   | 0.495 | 2,310   | 0.45 | 1,970   | 0.39  | 1,500   | 0.300 |   |       |       |       |               |  |       |  |               |  |       |  |               |  |       |  |
| 689    | 2600             | 0.994            |  |       |   |       | 3,200   | 0.7   | 2,940   | 0.66 | 2,690   | 0.61  | 2,410   | 0.55  | 2,080   | 0.485 | 1,630 | 0.385 |               |  |       |  |               |  |       |  |               |  |       |  |
| 742    | 2800             | 1.15             |  |       |   |       |   |       | 3,290   | 0.84 | 3,060   | 0.79  | 2,800   | 0.74  | 2,540   | 0.68  | 2,220 | 0.60  |               |  |       |  |               |  |       |  |               |  |       |  |
| 795    | 3000             | 1.32             |  |       |   |       |   |       | 3,620   | 1.05 | 3,400   | 1.00  | 3,170   | 0.95  | 2,940   | 0.90  | 2,690 | 0.84  |               |  |       |  |               |  |       |  |               |  |       |  |
| 848    | 3200             | 1.51             |  |       |   |       |   |       | 3,940   | 1.3  | 3,750   | 1.25  | 3,540   | 1.20  | 3,340   | 1.15  | 3,110 | 1.10  |               |  |       |  |               |  |       |  |               |  |       |  |
| 901    | 3400             | 1.70             |  |       |   |       |   |       |   |      | 4,080   | 1.55  | 3,880   | 1.45  | 3,680   | 1.40  | 3,480 | 1.35  |               |  |       |  |               |  |       |  |               |  |       |  |
| 953    | 3600             | 1.91             |  |       |   |       |   |       |   |      | 4,400   | 1.85  | 4,200   | 1.80  | 4,040   | 1.70  | 3,850 | 1.65  |               |  |       |  |               |  |       |  |               |  |       |  |
| 1007   | 3800             | 2.13             |  |       |   |       |   |       |   |      |   |       | 4,550   | 2.15  | 4,370   | 2.05  | 4,200 | 2.0   |               |  |       |  |               |  |       |  |               |  |       |  |
| 1060   | 4000             | 2.35             |  |       |   |       |   |       |   |      |   |       | 4,880   | 2.55  | 4,710   | 2.45  | 4,550 | 2.4   |               |  |       |  |               |  |       |  |               |  |       |  |
| 1113   | 4200             | 2.59             |  |       |   |       |   |       |   |      |   |       |   |       | 5,030   | 2.9   | 4,880 | 2.8   |               |  |       |  |               |  |       |  |               |  |       |  |
| 1166   | 4400             | 2.84             |  |       |   |       |   |       |   |      |   |       |   |       |   |       | 5,220 | 3.3   |               |  |       |  |               |  |       |  |               |  |       |  |
| 1220   | 4600             | 3.11             |  |       |   |       |   |       |   |      |   |       |   |       |   |       | 5,550 | 3.8   |               |  |       |  |               |  |       |  |               |  |       |  |
| 1273   | 4800             | 3.39             |  |       |   |       |   |       |   |      |   |       |   |       |   |       | 5,880 | 4.4   |               |  |       |  |               |  |       |  |               |  |       |  |
| 742    | 2800             | 1.15             | 1,820  | 0.50  |   |       |   |       |   |      |   |       |   |       |   |       |       |       |               |  |       |  |               |  |       |  |               |  |       |  |
| 795    | 3000             | 1.32             | 2,400  | 0.74  |   |       |   |       |   |      |   |       |   |       |   |       |       |       |               |  |       |  |               |  |       |  |               |  |       |  |
| 848    | 3200             | 1.51             | 2,850  | 1.00  | 2,280   | 0.81  |   |       |   |      |   |       |   |       |   |       |       |       |               |  |       |  |               |  |       |  |               |  |       |  |
| 901    | 3400             | 1.70             | 3,280  | 1.30  | 2,800   | 1.10  | 2,120   | 0.86  |   |      |   |       |   |       |   |       |       |       |               |  |       |  |               |  |       |  |               |  |       |  |
| 954    | 3600             | 1.91             | 3,660  | 1.60  | 3,250   | 1.45  | 2,750   | 1.25  |   |      |   |       |   |       |   |       |       |       |               |  |       |  |               |  |       |  |               |  |       |  |
| 1007   | 3800             | 2.13             | 4,030  | 1.95  | 3,670   | 1.80  | 3,250   | 1.60  | 2,740   | 1.35 |   |       |   |       |   |       |       |       |               |  |       |  |               |  |       |  |               |  |       |  |
| 1060   | 4000             | 2.35             | 4,380  | 2.30  | 4,040   | 2.15  | 3,670   | 2.00  | 3,250   | 1.80 | 2,720   | 1.5   |   |       |   |       |       |       |               |  |       |  |               |  |       |  |               |  |       |  |
| 1113   | 4200             | 2.59             | 4,730  | 2.75  | 4,410   | 2.60  | 4,080   | 2.45  | 3,700   | 2.20 | 3,290   | 2.0   |   |       |   |       |       |       |               |  |       |  |               |  |       |  |               |  |       |  |
| 1166   | 4400             | 2.84             | 5,070  | 3.2   | 4,780   | 3.05  | 4,470   | 2.90  | 4,130   | 2.70 | 3,760   | 2.5   | 2,770   | 1.85  |   |       |       |       |               |  |       |  |               |  |       |  |               |  |       |  |
| 1220   | 4600             | 3.11             | 5,410  | 3.7   | 5,130   | 3.55  | 4,850   | 3.40  | 4,520   | 3.25 | 4,200   | 3.0   | 3,420   | 2.50  |   |       |       |       |               |  |       |  |               |  |       |  |               |  |       |  |
| 1273   | 4800             | 3.39             | 5,740  | 4.3   | 5,460   | 4.10  | 5,200   | 3.95  | 4,900   | 3.8  | 4,610   | 3.6   | 3,930   | 3.10  | 2,960   | 2.55  |       |       |               |  |       |  |               |  |       |  |               |  |       |  |
| 1326   | 5000             | 3.67             | 6,060  | 4.9   | 5,800   | 4.75  | 5,550   | 4.55  | 5,290   | 4.4  | 5,000   | 4.2   | 4,400   | 3.75  | 3,640   | 3.15  |       |       |               |  |       |  |               |  |       |  |               |  |       |  |
| 1392   | 5250             | 4.05             |  |       | 6,220   | 5.6   | 5,970   | 5.4   | 5,730   | 5.2  | 5,480   | 5.0   | 4,930   | 4.6   | 4,300   | 4.05  |       |       |               |  |       |  |               |  |       |  |               |  |       |  |
| 1459   | 5500             | 4.45             |  |       | 6,630   | 6.5   | 6,400   | 6.3   | 6,160   | 6.2  | 5,930   | 6.0   | 5,410   | 5.5   | 4,850   | 5.0   |       |       |               |  |       |  |               |  |       |  |               |  |       |  |
| 1524   | 5750             | 4.85             |  |       | 7,040   | 7.5   | 6,820   | 7.3   | 6,600   | 7.1  | 6,350   | 7.0   | 5,880   | 6.5   | 5,380   | 6.0   |       |       |               |  |       |  |               |  |       |  |               |  |       |  |
| 1590   | 6000             | 5.29             |  |       |   |       | 7,240   | 8.5   | 7,000   | 8.2  | 6,790   | 8.0   | 6,350   | 7.6   | 5,890   | 7.2   |       |       |               |  |       |  |               |  |       |  |               |  |       |  |
| 1658   | 6250             | 5.75             |  |       |   |       | 7,630   | 9.7   | 7,410   | 9.5  | 7,230   | 9.3   | 6,810   | 8.8   | 6,380   | 8.4   |       |       |               |  |       |  |               |  |       |  |               |  |       |  |
| 1723   | 6500             | 6.20             |  |       |   |       |   |       | 7,850   | 10.5 | 7,610   | 10.5  | 7,230   | 10.0  | 6,850   | 9.6   |       |       |               |  |       |  |               |  |       |  |               |  |       |  |
| 1790   | 6750             | 6.70             |  |       |   |       |   |       | 8,240   | 12   | 8,050   | 12.0  | 7,650   | 11.5  | 7,300   | 11.0  |       |       |               |  |       |  |               |  |       |  |               |  |       |  |
| 1856   | 7000             | 7.20             |  |       |   |       |   |       |   |      | 8,470   | 13.5  |   |       |   |       |       |       |               |  |       |  |               |  |       |  |               |  |       |  |
| 1990   | 7500             | 8.26             |  |       |   |       |   |       |   |      |   |       | 8,100   | 13.0  | 7,740   | 12.5  |       |       |               |  |       |  |               |  |       |  |               |  |       |  |
| 2120   | 8000             | 9.4              |  |       |   |       |   |       |   |      |   |       | 8,920   | 16.5  | 8,580   | 16.0  |       |       |               |  |       |  |               |  |       |  |               |  |       |  |
| 2258   | 8500             | 10.6             |  |       |   |       |   |       |   |      |   |       | 9,750   | 20    | 9,430   | 19.5  |       |       |               |  |       |  |               |  |       |  |               |  |       |  |
| 2390   | 9000             | 11.9             |  |       |   |       |   |       |   |      |   |       |   |       | 10,200  | 24    |       |       |               |  |       |  |               |  |       |  |               |  |       |  |
|        |                  |                  |  |       |   |       |   |       |   |      |   |       |   |       | 11,100  | 29    |       |       |               |  |       |  |               |  |       |  |               |  |       |  |
| 1392   | 5250             | 4.05             | 3,450  | 3.35  |   |       |   |       |   |      |   |       |   |       |   |       |       |       |               |  |       |  |               |  |       |  |               |  |       |  |
| 1459   | 5500             | 4.45             | 4,210  | 4.4   | 3,140   | 3.65  |   |       |   |      |   |       |   |       |   |       |       |       |               |  |       |  |               |  |       |  |               |  |       |  |
| 1524   | 5750             | 4.85             | 4,810  | 5.5   | 4,130   | 4.75  |   |       |   |      |   |       |   |       |   |       |       |       |               |  |       |  |               |  |       |  |               |  |       |  |
| 1590   | 6000             | 5.29             | 5,380  | 6.6   | 4,800   | 5.9   |   |       |   |      |   |       |   |       |   |       |       |       |               |  |       |  |               |  |       |  |               |  |       |  |
| 1658   | 6250             | 5.75             | 5,900  | 7.8   | 5,380   | 7.2   | 4,050   | 5.5   |   |      |   |       |   |       |   |       |       |       |               |  |       |  |               |  |       |  |               |  |       |  |
| 1723   | 6500             | 6.20             | 6,390  | 9.1   | 5,930   | 8.5   | 4,810   | 7.0   |   |      |   |       |   |       |   |       |       |       |               |  |       |  |               |  |       |  |               |  |       |  |
| 1790   | 6750             | 6.70             | 6,880  | 10.5  | 6,450   | 9.9   | 5,480   | 8.5   | 4,110   | 6.5  |   |       |   |       |   |       |       |       |               |  |       |  |               |  |       |  |               |  |       |  |
| 1856   | 7000             | 7.20             | 7,330  | 12.0  | 6,950   | 11.5  | 6,050   | 10.0  | 4,930   | 8.3  |   |       |   |       |   |       |       |       |               |  |       |  |               |  |       |  |               |  |       |  |
| 1990   | 7500             | 8.26             | 8,210  | 15.5  | 7,900   | 15.0  | 7,100   | 13.5  | 6,200   | 12.0 | 5,160   | 10.0  |   |       |   |       |       |       |               |  |       |  |               |  |       |  |               |  |       |  |
| 2120   | 8000             | 9.40             | 9,100  | 19.0  | 8,770   | 18.5  | 8,070   | 17.5  | 7,350   | 16.0 | 6,500   | 14.5  | 5,430   | 12    |   |       |       |       |               |  |       |  |               |  |       |  |               |  |       |  |
| 2258   | 8500             | 10.60            | 9,940  | 23.5  | 9,610   | 23    | 9,000   | 21.5  | 8,350   | 20.5 | 7,610   | 19    | 6,820   | 17    | 5,800   | 14.5  |       |       |               |  |       |  |               |  |       |  |               |  |       |  |
| 2390   | 9000             | 11.90            | 10,800   | 28    |   | 28    | 9,890   | 26    | 9,300   | 25   | 8,680   | 24    | 7,980   | 22    |   |       |       |       |               |  |       |  |               |  |       |  |               |  |       |  |
| 2520   | 9500             | 13.28            | 11,600   | 34    | 11,300  | 33    | 10,800  | 32    | 10,200  | 31   | 9,650   | 29    | 9,030   | 28    | 8,350   | 26    |       |       |               |  |       |  |               |  |       |  |               |  |       |  |
| 2650   | 10000            | 14.7             |  |       | 12,100  | 39    | 11,600  | 38    | 11,100  | 36   | 10,600  | 35    | 10,000  | 33    | 9,450   | 32    |       |       |               |  |       |  |               |  |       |  |               |  |       |  |



Single Inlet

**No. 24 Multivane Fan — Design 2**

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. |
|--------|------------------|------------------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|
|        |                  |                  | Static Pressure 1/2" Water .0722 ozs. per sq. inch  |       | Static Pressure 3/4" Water .145 ozs. per sq. inch   |       | Static Pressure 1" Water .217 ozs. per sq. inch     |       | Static Pressure 1 1/4" Water .289 ozs. per sq. inch |       | Static Pressure 1 1/2" Water .361 ozs. per sq. inch |       | Static Pressure 1 3/4" Water .434 ozs. per sq. inch |       | Static Pressure 2" Water .506 ozs. per sq. inch     |       |
| 32     | 1050             | 179              | 52,800  | 1.95  |   |       |   |       |   |       |   |       |   |       |   |       |
| 37     | 1200             | 233              | 80,500  | 4.05  |   |       |   |       |   |       |   |       |   |       |   |       |
| 42     | 1400             | 316              | 101,000   | 7.0   |   |       |   |       |   |       |   |       |   |       |   |       |
| 49     | 1600             | 412              | 121,000   | 9.9   | 99,700  | 8.8   |   |       |   |       |   |       |   |       |   |       |
| 55     | 1800             | 520              | 139,000   | 14.5  | 125,000   | 14.5  | 52,000  | 9.1   |   |       |   |       |   |       |   |       |
| 60     | 2000             | 645              |   |       | 146,000   | 20.5  | 128,000   | 18    |   |       |   |       |   |       |   |       |
| 67     | 2200             | 780              |   |       | 166,000   | 27    | 153,000   | 27    | 129,000   | 21    |   |       |   |       |   |       |
| 73     | 2400             | 930              |   |       | 186,000   | 35    | 173,000   | 35    | 160,000   | 32    | 131,000   | 26    |   |       |   |       |
| 79     | 2600             | 1 09             |   |       | 203,000   | 45    | 192,000   | 45    | 183,000   | 43    | 168,000   | 39    | 135,000   | 31    |   |       |
| 85     | 2800             | 1 26             |   |       |   |       | 212,000   | 56    | 202,000   | 56    | 193,000   | 51    | 177,000   | 47    | 142,000   | 38    |
| 91     | 3000             | 1 45             |   |       |   |       | 231,000   | 68    | 222,000   | 68    | 214,000   | 68    | 203,000   | 64    | 187,000   | 58    |
| 97     | 3200             | 1 65             |   |       |   |       | 250,000   | 84    | 241,000   | 84    | 234,000   | 84    | 225,000   | 82    | 215,000   | 76    |
| 103    | 3400             | 1 86             |   |       |   |       |   |       | 260,000   | 98    | 253,000   | 98    | 245,000   | 98    | 238,000   | 98    |
| 109    | 3600             | 2 10             |   |       |   |       |   |       | 279,000   | 120   | 272,000   | 120   | 264,000   | 120   | 258,000   | 120   |
| 115    | 3800             | 2 32             |   |       |   |       |   |       |   |       | 291,000   | 145   | 285,000   | 145   | 278,000   | 145   |
| 121    | 4000             | 2 58             |   |       |   |       |   |       |   |       | 309,000   | 165   | 304,000   | 165   | 296,000   | 165   |
| 127    | 4200             | 2 85             |   |       |   |       |   |       |   |       |   |       | 323,000   | 190   | 316,000   | 190   |
| 133    | 4400             | 3 13             |   |       |   |       |   |       |   |       |   |       | 340,000   | 215   | 334,000   | 215   |
| 140    | 4600             | 3 41             |   |       |   |       |   |       |   |       |   |       |   |       | 354,000   | 250   |
| 145    | 4800             | 3 70             |   |       |   |       |   |       |   |       |   |       |   |       | 373,000   | 280   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 ozs. per sq. inch     |       | Static Pressure 1 1/4" Water .723 ozs. per sq. inch |       | Static Pressure 1 1/2" Water .878 ozs. per sq. inch |       | Static Pressure 1 3/4" Water 1.01 ozs. per sq. inch |       | Static Pressure 2" Water 1.16 ozs. per sq. inch     |       | Static Pressure 2 1/4" Water 1.43 ozs. per sq. inch |       | Static Pressure 2 1/2" Water 1.73 ozs. per sq. inch |       |
| 91     | 3000             | 1 45             | 155,000   | 47    |   |       |   |       |   |       |   |       |   |       |   |       |
| 97     | 3200             | 1 65             | 198,000   | 70    |   |       |   |       |   |       |   |       |   |       |   |       |
| 103    | 3400             | 1 86             | 227,000   | 92    | 186,000   | 72    |   |       |   |       |   |       |   |       |   |       |
| 109    | 3600             | 2 10             | 250,000   | 115   | 226,000   | 100   | 160,000   | 76    |   |       |   |       |   |       |   |       |
| 115    | 3800             | 2 32             | 271,000   | 140   | 254,000   | 130   | 221,000   | 110   |   |       |   |       |   |       |   |       |
| 121    | 4000             | 2 58             | 289,000   | 165   | 276,000   | 160   | 255,000   | 140   | 214,000   | 115   |   |       |   |       |   |       |
| 127    | 4200             | 2 85             | 310,000   | 190   | 298,000   | 185   | 282,000   | 180   | 258,000   | 150   | 207,000   | 125   |   |       |   |       |
| 133    | 4400             | 3 13             | 330,000   | 215   | 318,000   | 215   | 306,000   | 210   | 288,000   | 195   | 258,000   | 170   |   |       |   |       |
| 140    | 4600             | 3 41             | 350,000   | 250   | 338,000   | 250   | 327,000   | 245   | 315,000   | 235   | 293,000   | 215   | 195,000   | 140   |   |       |
| 145    | 4800             | 3 70             | 367,000   | 280   | 356,000   | 280   | 346,000   | 280   | 336,000   | 275   | 320,000   | 255   | 260,000   | 200   |   |       |
| 151    | 5000             | 4 05             | 386,000   | 320   | 376,000   | 320   | 366,000   | 320   | 355,000   | 320   | 343,000   | 310   | 303,000   | 260   | 199,000   | 175   |
| 159    | 5250             | 4 44             |   |       | 400,000   | 370   | 391,000   | 370   | 380,000   | 370   | 370,000   | 365   | 342,000   | 325   | 285,000   | 265   |
| 167    | 5500             | 4 88             |   |       | 422,000   | 425   | 414,000   | 425   | 403,000   | 425   | 395,000   | 425   | 375,000   | 400   | 336,000   | 350   |
| 174    | 5750             | 5 33             |   |       | 445,000   | 485   | 437,000   | 485   | 429,000   | 485   | 420,000   | 485   | 403,000   | 475   | 375,000   | 435   |
| 181    | 6000             | 5 80             |   |       |   |       |   |       | 452,000   | 545   | 445,000   | 545   | 427,000   | 545   | 406,000   | 515   |
| 189    | 6250             | 6 30             |   |       |   |       |   |       | 476,000   | 610   | 469,000   | 610   | 451,000   | 610   | 434,000   | 605   |
| 197    | 6500             | 6 81             |   |       |   |       |   |       | 501,000   | 690   | 491,000   | 690   | 476,000   | 690   | 461,000   | 690   |
| 204    | 6750             | 7 34             |   |       |   |       |   |       | 523,000   | 785   | 516,000   | 785   | 500,000   | 785   | 486,000   | 785   |
| 211    | 7000             | 7 89             |   |       |   |       |   |       |   |       | 539,000   | 880   | 525,000   | 880   | 511,000   | 880   |
| 226    | 7500             | 9 06             |   |       |   |       |   |       |   |       |   |       | 572,000   | 1080  | 558,000   | 1080  |
| 241    | 8000             | 10 32            |   |       |   |       |   |       |   |       |   |       |   |       | 606,000   | 1310  |
| 256    | 8500             | 11 63            |   |       |   |       |   |       |   |       |   |       |   |       | 654,000   | 1580  |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 3 1/2" Water 2.02 ozs. per sq. inch |       | Static Pressure 4" Water 2.31 ozs. per sq. inch     |       | Static Pressure 5" Water 2.89 ozs. per sq. inch     |       | Static Pressure 6" Water 3.47 ozs. per sq. inch     |       | Static Pressure 7" Water 4.05 ozs. per sq. inch     |       | Static Pressure 8" Water 4.63 ozs. per sq. inch     |       | Static Pressure 9" Water 5.2 ozs. per sq. inch      |       |
| 167    | 5500             | 4 88             | 254,000   | 260   |   |       |   |       |   |       |   |       |   |       |   |       |
| 174    | 5750             | 5 33             | 326,000   | 305   | 207,000   | 240   |   |       |   |       |   |       |   |       |   |       |
| 181    | 6000             | 5 80             | 373,000   | 465   | 311,000   | 380   |   |       |   |       |   |       |   |       |   |       |
| 189    | 6250             | 6 30             | 412,000   | 560   | 370,000   | 475   |   |       |   |       |   |       |   |       |   |       |
| 197    | 6500             | 6 81             | 442,000   | 670   | 413,000   | 590   | 275,000   | 400   |   |       |   |       |   |       |   |       |
| 204    | 6750             | 7 34             | 469,000   | 765   | 446,000   | 710   | 359,000   | 550   |   |       |   |       |   |       |   |       |
| 211    | 7000             | 7 89             | 496,000   | 865   | 476,000   | 825   | 416,000   | 670   |   |       |   |       |   |       |   |       |
| 226    | 7500             | 9 06             | 545,000   | 1080  | 530,000   | 1070  | 494,000   | 965   | 420,000   | 800   |   |       |   |       |   |       |
| 241    | 8000             | 10 32            | 592,000   | 1310  | 582,000   | 1310  | 556,000   | 1250  | 513,000   | 1140  | 426,000   | 918   |   |       |   |       |
| 256    | 8500             | 11 63            | 641,000   | 1580  | 630,000   | 1580  | 605,000   | 1540  | 578,000   | 1470  | 529,000   | 1320  | 441,000   | 1080  |   |       |
| 271    | 9000             | 13 05            | 688,000   | 1870  | 677,000   | 1870  | 657,000   | 1870  | 629,000   | 1820  | 602,000   | 1710  | 552,000   | 1530  | 465,000   | 1270  |
| 287    | 9500             | 14 53            | 736,000   | 2180  | 725,000   | 2180  | 702,000   | 2180  | 683,000   | 2180  | 659,000   | 2130  | 628,000   | 1970  | 576,000   | 1780  |
| 302    | 10000            | 16 20            |   |       | 771,000   | 2570  | 752,000   | 2570  | 732,000   | 2570  | 710,000   | 2540  | 689,000   | 2460  | 658,000   | 2300  |

Double Inlet

**No. 5 Multivane Fan — Design 2**

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                   | H. P. |
|--------|------------------|------------------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|
|        |                  |                  | Static Pressure 1/2" Water .0722 ozs. per sq. inch  |       | Static Pressure 1/2" Water .145 ozs. per sq. inch   |       | Static Pressure 3/4" Water .217 ozs. per sq. inch   |       | Static Pressure 1 1/4" Water .289 ozs. per sq. inch |       | Static Pressure 1 1/2" Water .361 ozs. per sq. inch |       | Static Pressure 1 3/4" Water .434 ozs. per sq. inch |       | Static Pressure 2" Water .506 ozs. per sq. inch |       |
| 180    | 1000             | 0 147            | 1,330   | 0 046 |   |       |   |       |   |       |   |       |   |       |   |       |
| 227    | 1200             | 0 212            | 2,250   | 0 110 |   |       |   |       |   |       |   |       |   |       |   |       |
| 265    | 1400             | 0 288            | 2,990   | 0 195 | 1,780   | 0 120 |   |       |   |       |   |       |   |       |   |       |
| 303    | 1600             | 0 376            | 3,650   | 0 305 | 2,790   | 0 245 |   |       |   |       |   |       |   |       |   |       |
| 341    | 1800             | 0 476            | 4,300   | 0 45  | 3,580   | 0 39  | 2,090   | 0 30  |   |       |   |       |   |       |   |       |
| 379    | 2000             | 0 588            | 4,900   | 0 57  | 4,200   | 0 57  | 3,580   | 0 49  | 2,650   | 0 37  |   |       |   |       |   |       |
| 417    | 2200             | 0 711            | 4,950   | 0 78  | 4,950   | 0 78  | 4,360   | 0 71  | 3,680   | 0 61  | 2,700   | 0 455 |   |       |   |       |
| 455    | 2400             | 0 847            | 5,600   | 1 05  | 5,600   | 1 05  | 5,080   | 0 97  | 4,500   | 0 88  | 3,840   | 0 76  | 2,940   | 0 59  |   |       |
| 492    | 2600             | 0 991            |   |       | 6,250   | 1 35  | 5,750   | 1 30  | 5,250   | 1 20  | 4,700   | 1 10  | 4,070   | 0 95  | 3,190   | 0 75  |
| 530    | 2800             | 1 15             |   |       |   |       | 6,430   | 1 65  | 5,970   | 1 55  | 5,480   | 1 45  | 4,950   | 1 35  | 4,350   | 1 15  |
| 568    | 3000             | 1 32             |   |       |   |       | 7,070   | 2 05  | 6,650   | 1 95  | 6,200   | 1 85  | 5,750   | 1 75  | 5,250   | 1 65  |
| 606    | 3200             | 1 51             |   |       |   |       | 7,700   | 2 55  | 7,320   | 2 45  | 6,920   | 2 35  | 6,520   | 2 25  | 6,070   | 2 10  |
| 644    | 3400             | 1 70             |   |       |   |       |   |       | 7,960   | 3 0   | 7,600   | 2 85  | 7,190   | 2 75  | 6,800   | 2 65  |
| 682    | 3600             | 1 91             |   |       |   |       |   |       | 8,590   | 3 6   | 8,210   | 3 50  | 7,890   | 3 35  | 7,510   | 3 25  |
| 720    | 3800             | 2 13             |   |       |   |       |   |       |   |       | 8,890   | 4 20  | 8,540   | 4 05  | 8,210   | 3 90  |
| 758    | 4000             | 2 35             |   |       |   |       |   |       |   |       | 9,540   | 4 95  | 9,210   | 4 8   | 8,890   | 4 65  |
| 795    | 4200             | 2 59             |   |       |   |       |   |       |   |       |   |       | 9,840   | 5 7   | 9,540   | 5 5   |
| 833    | 4400             | 2 84             |   |       |   |       |   |       |   |       |   |       |   |       | 10,200  | 6 4   |
| 871    | 4600             | 3 11             |   |       |   |       |   |       |   |       |   |       |   |       | 10,800  | 7 4   |
| 908    | 4800             | 3 39             |   |       |   |       |   |       |   |       |   |       |   |       | 11,500  | 8 6   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 ozs. per sq. inch     |       | Static Pressure 1 1/4" Water .723 ozs. per sq. inch |       | Static Pressure 1 1/2" Water .878 ozs. per sq. inch |       | Static Pressure 1 3/4" Water 1.01 ozs. per sq. inch |       | Static Pressure 2" Water 1.16 ozs. per sq. inch     |       | Static Pressure 2 1/2" Water 1.45 ozs. per sq. inch |       | Static Pressure 3" Water 1.73 ozs. per sq. inch |       |
| 530    | 2800             | 1 15             | 3,560   | 0 98  |   |       |   |       |   |       |   |       |   |       |   |       |
| 568    | 3000             | 1 32             | 4,700   | 1 45  |   |       |   |       |   |       |   |       |   |       |   |       |
| 606    | 3200             | 1 51             | 5,580   | 1 95  | 4,450   | 1 60  |   |       |   |       |   |       |   |       |   |       |
| 644    | 3400             | 1 70             | 6,400   | 2 50  | 5,480   | 2 15  | 4,140   | 1 65  |   |       |   |       |   |       |   |       |
| 682    | 3600             | 1 91             | 7,150   | 3 10  | 6,350   | 2 80  | 5,380   | 2 40  |   |       |   |       |   |       |   |       |
| 720    | 3800             | 2 13             | 7,860   | 3 80  | 7,170   | 3 50  | 6,350   | 3 15  | 5,350   | 2 70  |   |       |   |       |   |       |
| 758    | 4000             | 2 35             | 8,560   | 4 55  | 7,900   | 4 25  | 7,160   | 3 90  | 6,350   | 3 50  | 5,300   | 2 95  |   |       |   |       |
| 795    | 4200             | 2 59             | 9,240   | 5 4   | 8,640   | 5 1   | 7,960   | 4 75  | 7,220   | 4 35  | 6,420   | 3 90  |   |       |   |       |
| 833    | 4400             | 2 84             | 9,900   | 6 2   | 9,340   | 6 0   | 8,740   | 5 7   | 8,060   | 5 3   | 7,350   | 4 85  | 5,400   | 3 65  |   |       |
| 871    | 4600             | 3 11             | 10,600  | 7 3   | 10,000  | 7 0   | 9,450   | 6 7   | 8,840   | 6 3   | 8,210   | 5 9   | 6,660   | 4 9   |   |       |
| 908    | 4800             | 3 39             | 11,200  | 8 4   | 10,700  | 8 0   | 10,200  | 7 7   | 9,590   | 7 4   | 9,010   | 7 0   | 7,660   | 6 1   | 5,780   | 5 0   |
| 947    | 5000             | 3 67             | 11,900  | 9 6   | 11,300  | 9 2   | 10,800  | 8 9   | 10,300  | 8 6   | 9,780   | 8 2   | 8,590   | 7 3   | 7,120   | 6 2   |
| 994    | 5250             | 4 05             |   |       | 12,200  | 11 0  | 11,700  | 10 5  | 11,200  | 10 0  | 10,700  | 9 9   | 9,640   | 9 0   | 8,390   | 8 0   |
| 1042   | 5500             | 4 45             |   |       | 13,000  | 13 0  | 12,500  | 12 5  | 12,000  | 12 0  | 11,500  | 11 5  | 10,600  | 11 0  | 9,490   | 9 8   |
| 1090   | 5750             | 4 85             |   |       | 13,800  | 14 5  | 13,300  | 14 5  | 12,900  | 14 0  | 12,400  | 13 5  | 11,500  | 13 0  | 10,500  | 12 0  |
| 1136   | 6000             | 5 29             |   |       |   |       | 14,100  | 16 5  | 13,700  | 16 0  | 13,300  | 15 5  | 12,400  | 15 0  | 11,500  | 14 0  |
| 1183   | 6250             | 5 75             |   |       |   |       | 14,900  | 19    | 14,500  | 18 5  | 14,100  | 18 0  | 13,300  | 17 0  | 12,500  | 16 5  |
| 1230   | 6500             | 6 20             |   |       |   |       |   |       | 15,300  | 21    | 14,900  | 20 5  | 14,100  | 19 5  | 13,300  | 19 0  |
| 1278   | 6750             | 6 70             |   |       |   |       |   |       | 16,100  | 24    | 15,700  | 23 5  | 14,900  | 22 5  | 14,300  | 21 5  |
| 1325   | 7000             | 7 20             |   |       |   |       |   |       |   |       | 16,600  | 26    | 15,800  | 25    | 15,100  | 24 5  |
| 1420   | 7500             | 8 26             |   |       |   |       |   |       |   |       |   |       | 17,400  | 32    | 16,800  | 31    |
| 1514   | 8000             | 9 4              |   |       |   |       |   |       |   |       |   |       | 19,000  | 40    | 18,400  | 38    |
| 1610   | 8500             | 10 6             |   |       |   |       |   |       |   |       |   |       |   |       | 20,000  | 47    |
| 1700   | 9000             | 11 9             |   |       |   |       |   |       |   |       |   |       |   |       | 21,600  | 56    |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 3 1/2" Water 2.02 ozs. per sq. inch |       | Static Pressure 4" Water 2.31 ozs. per sq. inch     |       | Static Pressure 5" Water 2.89 ozs. per sq. inch     |       | Static Pressure 6" Water 3.47 ozs. per sq. inch     |       | Static Pressure 7" Water 4.05 ozs. per sq. inch     |       | Static Pressure 8" Water 4.63 ozs. per sq. inch     |       | Static Pressure 9" Water 5.2 ozs. per sq. inch  |       |
| 994    | 5250             | 4 05             | 6,750   | 6 5   |   |       |   |       |   |       |   |       |   |       |   |       |
| 1042   | 5500             | 4 45             | 8,240   | 8 6   | 6,120   | 7 1   |   |       |   |       |   |       |   |       |   |       |
| 1090   | 5750             | 4 85             | 9,400   | 10 5  | 8,060   | 9 2   |   |       |   |       |   |       |   |       |   |       |
| 1136   | 6000             | 5 29             | 10,500  | 13 0  | 9,380   | 11 5  |   |       |   |       |   |       |   |       |   |       |
| 1183   | 6250             | 5 75             | 11,500  | 15 5  | 10,500  | 14 0  | 7,910   | 11 0  |   |       |   |       |   |       |   |       |
| 1230   | 6500             | 6 20             | 12,500  | 18 0  | 11,600  | 16 5  | 9,410   | 14 0  |   |       |   |       |   |       |   |       |
| 1278   | 6750             | 6 70             | 13,400  | 20 5  | 12,600  | 19 5  | 10,700  | 16 5  | 8,050   | 13 0  |   |       |   |       |   |       |
| 1325   | 7000             | 7 20             | 14,300  | 23 5  | 13,600  | 22 5  | 11,800  | 20    | 9,640   | 16 0  |   |       |   |       |   |       |
| 1420   | 7500             | 8 26             | 16,100  | 30    | 15,400  | 29    | 13,900  | 26    | 12,100  | 23 5  | 10,100  | 20    |   |       |   |       |
| 1514   | 8000             | 9 4              | 17,800  | 37    | 17,100  | 36    | 15,800  | 34    | 14,400  | 31    | 12,700  | 28    | 10,600  | 23 5  |   |       |
| 1610   | 8500             | 10 6             | 19,400  | 46    | 18,800  | 45    | 17,600  | 42    | 16,300  | 40    | 14,900  | 37    | 13,300  | 33    | 11,300  | 28    |
| 1700   | 9000             | 11 9             | 21,100  | 56    | 20,400  | 54    | 19,300  | 52    | 18,200  | 49    | 17,000  | 46    | 15,600  | 43    | 14,100  | 39    |
| 1795   | 9500             | 13 28            | 22,700  | 66    | 22,100  | 64    | 21,000  | 62    | 20,000  | 60    | 18,900  | 58    | 17,600  | 54    | 16,300  | 50    |
| 1894   | 10000            | 14 7             |   |       | 23,700  | 76    | 22,700  | 74    | 21,700  | 72    | 20,700  | 70    | 19,600  | 66    | 18,500  | 62    |

Single Inlet

**No. 24 Multivane Fan — Design 2**

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                   | H. P. |
|--------|------------------|------------------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|
|        |                  |                  | Static Pressure 1/2" Water .0722 ozs. per sq. inch  |       | Static Pressure 3/4" Water .145 ozs. per sq. inch   |       | Static Pressure 1" Water .217 ozs. per sq. inch     |       | Static Pressure 1 1/4" Water .289 ozs. per sq. inch |       | Static Pressure 1 1/2" Water .361 ozs. per sq. inch |       | Static Pressure 1 3/4" Water .434 ozs. per sq. inch |       | Static Pressure 2" Water .506 ozs. per sq. inch |       |
| 32     | 1050             | 179              | 52,800  | 1 95  |   |       |   |       |   |       |   |       |   |       |   |       |
| 37     | 1200             | 233              | 80,500  | 4 05  |   |       |   |       |   |       |   |       |   |       |   |       |
| 42     | 1400             | 316              | 101,000   | 7 0   |   |       |   |       |   |       |   |       |   |       |   |       |
| 49     | 1600             | 412              | 121,000   | 9 9   | 99,700  | 8 8   |   |       |   |       |   |       |   |       |   |       |
| 55     | 1800             | 520              | 139,000   | 14 5  | 125,000   | 14 5  | 52,000  | 9 1   |   |       |   |       |   |       |   |       |
| 60     | 2000             | 645              |   |       | 146,000   | 20 5  | 128,000   | 18    |   |       |   |       |   |       |   |       |
| 67     | 2200             | 780              |   |       | 166,000   | 27    | 153,000   | 27    | 129,000   | 21    |   |       |   |       |   |       |
| 73     | 2400             | 930              |   |       | 186,000   | 35    | 173,000   | 35    | 160,000   | 32    | 131,000   | 26    |   |       |   |       |
| 79     | 2600             | 1 09             |   |       | 203,000   | 45    | 192,000   | 45    | 183,000   | 43    | 168,000   | 39    | 135,000   | 31    |   |       |
| 85     | 2800             | 1 26             |   |       |   |       | 212,000   | 56    | 202,000   | 56    | 193,000   | 51    | 177,000   | 47    | 142,000   | 38    |
| 91     | 3000             | 1 45             |   |       |   |       | 231,000   | 68    | 222,000   | 68    | 214,000   | 68    | 203,000   | 64    | 187,000   | 58    |
| 97     | 3200             | 1 65             |   |       |   |       | 250,000   | 84    | 241,000   | 84    | 234,000   | 84    | 225,000   | 82    | 215,000   | 76    |
| 103    | 3400             | 1 86             |   |       |   |       |   |       | 260,000   | 98    | 253,000   | 98    | 245,000   | 98    | 238,000   | 98    |
| 109    | 3600             | 2 10             |   |       |   |       |   |       | 279,000   | 120   | 272,000   | 120   | 264,000   | 120   | 258,000   | 120   |
| 115    | 3800             | 2 32             |   |       |   |       |   |       |   |       | 291,000   | 145   | 285,000   | 145   | 278,000   | 145   |
| 121    | 4000             | 2 58             |   |       |   |       |   |       |   |       | 309,000   | 165   | 304,000   | 165   | 296,000   | 165   |
| 127    | 4200             | 2 85             |   |       |   |       |   |       |   |       |   |       | 323,000   | 190   | 316,000   | 190   |
| 133    | 4400             | 3 13             |   |       |   |       |   |       |   |       |   |       | 340,000   | 215   | 334,000   | 215   |
| 140    | 4600             | 3 41             |   |       |   |       |   |       |   |       |   |       |   |       | 354,000   | 250   |
| 145    | 4800             | 3 70             |   |       |   |       |   |       |   |       |   |       |   |       | 373,000   | 280   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 ozs. per sq. inch     |       | Static Pressure 1 1/4" Water .723 ozs. per sq. inch |       | Static Pressure 1 1/2" Water .878 ozs. per sq. inch |       | Static Pressure 1 3/4" Water 1.01 ozs. per sq. inch |       | Static Pressure 2" Water 1.16 ozs. per sq. inch     |       | Static Pressure 2 1/4" Water 1.43 ozs. per sq. inch |       | Static Pressure 3" Water 1.73 ozs. per sq. inch |       |
| 91     | 3000             | 1 45             | 155,000   | 47    |   |       |   |       |   |       |   |       |   |       |   |       |
| 97     | 3200             | 1 65             | 198,000   | 70    |   |       |   |       |   |       |   |       |   |       |   |       |
| 103    | 3400             | 1 86             | 227,000   | 92    | 186,000   | 72    |   |       |   |       |   |       |   |       |   |       |
| 109    | 3600             | 2 10             | 250,000   | 115   | 226,000   | 100   | 160,000   | 76    |   |       |   |       |   |       |   |       |
| 115    | 3800             | 2 32             | 271,000   | 140   | 254,000   | 130   | 221,000   | 110   |   |       |   |       |   |       |   |       |
| 121    | 4000             | 2 58             | 289,000   | 165   | 276,000   | 160   | 255,000   | 140   | 214,000   | 115   |   |       |   |       |   |       |
| 127    | 4200             | 2 85             | 310,000   | 190   | 298,000   | 185   | 282,000   | 180   | 258,000   | 150   | 207,000   | 125   |   |       |   |       |
| 133    | 4400             | 3 13             | 330,000   | 215   | 318,000   | 215   | 306,000   | 210   | 288,000   | 195   | 258,000   | 170   |   |       |   |       |
| 140    | 4600             | 3 41             | 350,000   | 250   | 338,000   | 250   | 327,000   | 245   | 315,000   | 235   | 293,000   | 215   | 195,000   | 140   |   |       |
| 145    | 4800             | 3 70             | 367,000   | 280   | 356,000   | 280   | 346,000   | 280   | 336,000   | 275   | 320,000   | 255   | 260,000   | 200   |   |       |
| 151    | 5000             | 4 05             | 386,000   | 320   | 376,000   | 320   | 366,000   | 320   | 355,000   | 320   | 343,000   | 310   | 303,000   | 260   | 199,000   | 175   |
| 159    | 5250             | 4 44             |   |       | 400,000   | 370   | 391,000   | 370   | 380,000   | 370   | 370,000   | 365   | 342,000   | 325   | 285,000   | 265   |
| 167    | 5500             | 4 88             |   |       | 422,000   | 425   | 414,000   | 425   | 403,000   | 425   | 395,000   | 425   | 375,000   | 400   | 336,000   | 350   |
| 174    | 5750             | 5 33             |   |       | 445,000   | 485   | 437,000   | 485   | 429,000   | 485   | 420,000   | 485   | 403,000   | 475   | 375,000   | 435   |
| 181    | 6000             | 5 80             |   |       |   |       |   |       | 452,000   | 545   | 445,000   | 545   | 427,000   | 545   | 406,000   | 515   |
| 189    | 6250             | 6 30             |   |       |   |       |   |       | 476,000   | 610   | 469,000   | 610   | 451,000   | 610   | 434,000   | 605   |
| 197    | 6500             | 6 81             |   |       |   |       |   |       | 501,000   | 690   | 491,000   | 690   | 476,000   | 690   | 461,000   | 690   |
| 204    | 6750             | 7 34             |   |       |   |       |   |       | 523,000   | 785   | 516,000   | 785   | 500,000   | 785   | 486,000   | 785   |
| 211    | 7000             | 7 89             |   |       |   |       |   |       |   |       | 539,000   | 880   | 525,000   | 880   | 511,000   | 880   |
| 226    | 7500             | 9 06             |   |       |   |       |   |       |   |       |   |       | 572,000   | 1080  | 558,000   | 1080  |
| 241    | 8000             | 10 32            |   |       |   |       |   |       |   |       |   |       |   |       | 606,000   | 1310  |
| 256    | 8500             | 11 63            |   |       |   |       |   |       |   |       |   |       |   |       | 654,000   | 1580  |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 3 1/2" Water 2.02 ozs. per sq. inch |       | Static Pressure 4" Water 2.31 ozs. per sq. inch     |       | Static Pressure 5" Water 2.89 ozs. per sq. inch     |       | Static Pressure 6" Water 3.47 ozs. per sq. inch     |       | Static Pressure 7" Water 4.05 ozs. per sq. inch     |       | Static Pressure 8" Water 4.63 ozs. per sq. inch     |       | Static Pressure 9" Water 5.2 ozs. per sq. inch  |       |
| 167    | 5500             | 4 88             | 254,000   | 260   |   |       |   |       |   |       |   |       |   |       |   |       |
| 174    | 5750             | 5 33             | 326,000   | 305   | 207,000   | 240   |   |       |   |       |   |       |   |       |   |       |
| 181    | 6000             | 5 80             | 373,000   | 465   | 311,000   | 380   |   |       |   |       |   |       |   |       |   |       |
| 189    | 6250             | 6 30             | 412,000   | 560   | 370,000   | 475   |   |       |   |       |   |       |   |       |   |       |
| 197    | 6500             | 6 81             | 442,000   | 670   | 413,000   | 590   | 275,000   | 400   |   |       |   |       |   |       |   |       |
| 204    | 6750             | 7 34             | 469,000   | 765   | 446,000   | 710   | 359,000   | 550   |   |       |   |       |   |       |   |       |
| 211    | 7000             | 7 89             | 496,000   | 865   | 476,000   | 825   | 416,000   | 670   |   |       |   |       |   |       |   |       |
| 226    | 7500             | 9 06             | 545,000   | 1080  | 530,000   | 1070  | 494,000   | 965   | 420,000   | 800   |   |       |   |       |   |       |
| 241    | 8000             | 10 32            | 592,000   | 1310  | 582,000   | 1310  | 556,000   | 1250  | 513,000   | 1140  | 426,000   | 918   |   |       |   |       |
| 256    | 8500             | 11 63            | 641,000   | 1580  | 630,000   | 1580  | 605,000   | 1540  | 578,000   | 1470  | 529,000   | 1320  | 441,000   | 1080  |   |       |
| 271    | 9000             | 13 05            | 688,000   | 1870  | 677,000   | 1870  | 657,000   | 1870  | 629,000   | 1820  | 602,000   | 1710  | 552,000   | 1530  | 465,000   | 1270  |
| 287    | 9500             | 14 53            | 736,000   | 2180  | 725,000   | 2180  | 702,000   | 2180  | 683,000   | 2180  | 659,000   | 2130  | 628,000   | 1970  | 576,000   | 1780  |
| 302    | 10000            | 16 20            |   |       | 771,000   | 2570  | 752,000   | 2570  | 732,000   | 2570  | 710,000   | 2540  | 689,000   | 2460  | 658,000   | 2300  |

Double Inlet

## No. 6½ Multivane Fan — Design 2

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M. H. P. Static Pressure 1½" Water .0722 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1½" Water .145 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1½" Water .217 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1½" Water .289 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1½" Water .361 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1½" Water .434 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1½" Water .506 ozs. per sq. inch |
|--------|------------------|------------------|---|--|--|--|--|--|--|
| 148    | 1000             | 0 147            | 2,240 0.078   |  |  |  |  |  |  |
| 177    | 1200             | 0 212            | 3,780 0.185   |  |  |  |  |  |  |
| 206    | 1400             | 0 288            | 5,020 0.325   | 2,980 0.205  |  |  |  |  |  |
| 236    | 1600             | 0 376            | 6,140 0.51  | 4,690 0.41   |  |  |  |  |  |
| 265    | 1800             | 0 476            | 7,220 0.76  | 6,010 0.66   | 4,520 0.51   |  |  |  |  |
| 294    | 2000             | 0.588            |   | 7,200 0.95   | 6,020 0.82   | 4,450 0.62   |  |  |  |
| 324    | 2200             | 0 711            |   | 8,320 1.30   | 7,320 1.20   | 6,180 1.05   | 4,540 0.77   |  |  |
| 354    | 2400             | 0 817            |   | 9,410 1.75   | 8,540 1.65   | 7,570 1.5  | 6,450 1.30   | 4,940 0.98   |  |
| 383    | 2600             | 0 994            |   | 10,500 2.3   | 9,660 2.15   | 8,830 2.0  | 7,910 1.80   | 6,840 1.60   | 5,350 1.25   |
| 412    | 2800             | 1.15             |   |  | 10,800 2.75  | 10,000 2.6   | 9,200 2.45   | 8,330 2.25   | 7,300 1.95   |
| 442    | 3000             | 1.32             |   |  | 11,900 3.45  | 11,200 3.3   | 10,400 3.15  | 9,600 2.95   | 8,820 2.75   |
| 472    | 3200             | 1.51             |   |  | 12,900 4.3   | 12,300 4.1   | 11,600 3.95  | 11,000 3.75  | 10,200 3.55  |
| 500    | 3400             | 1.70             |   |  |  | 13,400 5.0   | 12,800 4.8   | 12,100 4.65  | 11,400 4.45  |
| 530    | 3600             | 1.91             |   |  |  | 14,400 6.1   | 13,800 5.8   | 13,300 5.6   | 12,600 5.4   |
| 558    | 3800             | 2.13             |   |  |  |  | 14,900 7.0   | 14,300 6.8   | 13,800 6.6   |
| 590    | 4000             | 2.35             |   |  |  |  | 16,000 8.3   | 15,500 8.1   | 14,900 7.8   |
| 619    | 4200             | 2.59             |   |  |  |  |  | 16,500 9.5   | 16,000 9.2   |
| 648    | 4400             | 2.84             |   |  |  |  |  |  | 17,200 11.0  |
| 677    | 4600             | 3.11             |   |  |  |  |  |  | 18,200 12.5  |
| 707    | 4800             | 3.39             |   |  |  |  |  |  | 19,300 14.5  |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 ozs. per sq. inch                       | Static Pressure 1½" Water .723 ozs. per sq. inch                     | Static Pressure 1½" Water .878 ozs. per sq. inch                     | Static Pressure 1½" Water 1.01 ozs. per sq. inch                     | Static Pressure 2" Water 1.16 ozs. per sq. inch                      | Static Pressure 2½" Water 1.45 ozs. per sq. inch                     | Static Pressure 3" Water 1.73 ozs. per sq. inch                      |
| 412    | 2800             | 1.15             | 5,980 1.65  |  |  |  |  |  |  |
| 442    | 3000             | 1.32             | 7,900 2.45  |  |  |  |  |  |  |
| 472    | 3200             | 1.51             | 9,370 3.25  | 7,480 2.65   |  |  |  |  |  |
| 500    | 3400             | 1.70             | 10,800 4.2  | 9,200 3.65   | 6,950 2.80   |  |  |  |  |
| 530    | 3600             | 1.91             | 12,000 5.3  | 10,700 4.7   | 9,040 4.05   |  |  |  |  |
| 558    | 3800             | 2.13             | 13,200 6.4  | 12,100 5.9   | 10,700 5.3   | 9,000 4.5  |  |  |  |
| 590    | 4000             | 2.35             | 14,400 7.6  | 13,300 7.1   | 12,100 6.6   | 10,700 5.9   | 8,920 4.95   |  |  |
| 619    | 4200             | 2.59             | 15,500 9.0  | 14,500 8.5   | 13,400 8.0   | 12,100 7.3   | 10,800 6.6   |  |  |
| 648    | 4400             | 2.84             | 16,700 10.5   | 15,700 10.0  | 14,700 9.5   | 13,600 8.9   | 12,400 8.2   | 9,080 6.1  |  |
| 677    | 4600             | 3.11             | 17,800 12   | 16,900 11.5  | 15,900 11.0  | 14,900 10.5  | 13,800 9.9   | 11,200 8.2   |  |
| 707    | 4800             | 3.39             | 18,800 14   | 17,900 13.5  | 17,100 13.0  | 16,100 12.5  | 15,200 12.0  | 12,900 10.0  | 9,700 8.4  |
| 736    | 5000             | 3.67             | 19,900 16   | 19,000 15.5  | 18,200 15.0  | 17,400 14.5  | 16,500 14.0  | 14,400 12.5  | 12,000 10.5  |
| 774    | 5250             | 4.05             |   | 20,400 18.5  | 19,600 17.5  | 18,800 17.0  | 18,000 16.5  | 16,200 15.0  | 14,100 13.5  |
| 810    | 5500             | 4.45             |   | 21,800 21.5  | 21,000 20.5  | 20,200 20.0  | 19,500 19.5  | 17,800 18.0  | 15,900 16.5  |
| 847    | 5750             | 4.85             |   | 23,100 24.5  | 22,400 24  | 21,700 23.5  | 20,900 23  | 19,300 21.5  | 17,700 20.0  |
| 885    | 6000             | 5.29             |   |  | 23,800 28  | 23,000 27  | 22,300 26  | 20,900 25  | 19,400 23.5  |
| 920    | 6250             | 5.75             |   |  | 25,000 32  | 24,400 31  | 23,700 30  | 22,400 29  | 20,900 28  |
| 957    | 6500             | 6.20             |   |  |  | 25,700 35  | 25,000 34  | 23,700 33  | 22,500 32  |
| 995    | 6750             | 6.70             |   |  |  | 27,000 40  | 26,400 39  | 25,100 38  | 24,000 36  |
| 1030   | 7000             | 7.20             |   |  |  |  | 27,800 44  | 26,600 43  | 25,400 41  |
| 1098   | 7500             | 8.26             |   |  |  |  |  | 29,300 54  | 28,200 52  |
| 1170   | 8000             | 9.4              |   |  |  |  |  | 32,000 66  | 31,000 64  |
| 1244   | 8500             | 10.6             |   |  |  |  |  |  | 33,600 78  |
| 1318   | 9000             | 11.9             |   |  |  |  |  |  | 36,300 96  |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 3½" Water 2.02 ozs. per sq. inch                      | Static Pressure 4" Water 2.31 ozs. per sq. inch                      | Static Pressure 5" Water 2.89 ozs. per sq. inch                      | Static Pressure 6" Water 3.47 ozs. per sq. inch                      | Static Pressure 7" Water 4.05 ozs. per sq. inch                      | Static Pressure 8" Water 4.63 ozs. per sq. inch                      | Static Pressure 9" Water 5.2 ozs. per sq. inch                       |
| 774    | 5250             | 4.05             | 11,300 11.0   |  |  |  |  |  |  |
| 810    | 5500             | 4.45             | 13,900 14.5   | 10,300 12.0  |  |  |  |  |  |
| 847    | 5750             | 4.85             | 15,800 18.0   | 13,600 15.5  |  |  |  |  |  |
| 885    | 6000             | 5.29             | 17,700 21.5   | 15,800 19.5  |  |  |  |  |  |
| 920    | 6250             | 5.75             | 19,400 26   | 17,700 23.5  | 13,300 18  |  |  |  |  |
| 957    | 6500             | 6.20             | 21,000 30   | 19,500 28  | 15,800 23  |  |  |  |  |
| 995    | 6750             | 6.70             | 22,600 35   | 21,200 33  | 18,000 28  | 13,500 21.5  |  |  |  |
| 1030   | 7000             | 7.20             | 24,100 40   | 22,800 38  | 19,900 33  | 16,200 27  |  |  |  |
| 1098   | 7500             | 8.26             | 27,000 50   | 25,900 49  | 23,300 44  | 20,400 39  | 17,000 33  |  |  |
| 1170   | 8000             | 9.40             | 29,800 62   | 28,800 60  | 26,500 58  | 24,100 52  | 21,300 47  | 17,800 40  |  |
| 1244   | 8500             | 10.60            | 32,600 76   | 31,600 74  | 29,600 70  | 27,400 66  | 25,000 62  | 22,400 56  | 19,000 48  |
| 1318   | 9000             | 11.90            | 35,400 94   | 34,300 90  | 32,500 86  | 30,500 84  | 28,500 78  | 26,200 72  | 23,600 66  |
| 1390   | 9500             | 13.28            | 38,100 110  | 37,100 110   | 35,400 105   | 33,500 100   | 31,700 96  | 29,600 90  | 27,400 84  |
| 1463   | 10000            | 14.7             |   | 39,800 130   | 38,100 125   | 36,400 120   | 34,700 115   | 32,900 110   | 31,000 105   |

Double Inlet

## No. 7 Multivane Fan — Design 2

Single Width

When Discharging Air at 65 F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.                                       | H. P.   | Volume C.F.M.                                       | H. P.   | Volume C.F.M.                                       | H. P.   | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                   | H. P. | Volume C.F.M.                                   | H. P. | Volume C.F.M.                                       | H. P. |
|--------|------------------|------------------|---|---|---|---|---|---|---|-------|---|-------|---|-------|---|-------|
|        |                  |                  | Static Pressure 1" Water .0722 oza. per sq. inch    |   | Static Pressure 1" Water .145 oza. per sq. inch     |   | Static Pressure 1 1/2" Water .217 oza. per sq. inch |   | Static Pressure 1 1/2" Water .289 oza. per sq. inch |       | Static Pressure 2" Water .361 oza. per sq. inch |       | Static Pressure 2" Water .434 oza. per sq. inch |       | Static Pressure 2 1/2" Water .506 oza. per sq. inch |       |
| 133    | 1000             | 0 147            | 2,730   | 0 095   |   |   |   |   |   |       |   |       |   |       |   |       |
| 159    | 1200             | 0 212            | 4,610   | 0 225   |   |   |   |   |   |       |   |       |   |       |   |       |
| 186    | 1400             | 0 288            | 6,120   | 0 395   | 3,640   | 0 25  |   |   |   |       |   |       |   |       |   |       |
| 212    | 1600             | 0 376            | 7,180   | 0 62  | 5,710   | 0 50  |   |   |   |       |   |       |   |       |   |       |
| 259    | 1800             | 0 476            | 8,800   | 0 93  | 7,320   | 0 80  | 5,510   | 0 62  |   |       |   |       |   |       |   |       |
| 265    | 2000             | 0 588            |   |   | 8,780   | 1 15  | 7,350   | 1 00  | 5,430   | 0 76  |   |       |   |       |   |       |
| 292    | 2200             | 0 711            |   |   | 10,200  | 1 60  | 8,930   | 1 45  | 7,530   | 1 25  | 5,530   | 0 91  |   |       |   |       |
| 318    | 2400             | 0 847            |   |   | 11,500  | 2 15  | 10,000  | 2 00  | 9,230   | 1 80  | 7,860   | 1 55  | 6,010   | 1 20  |   |       |
| 345    | 2600             | 0 994            |   |   | 12,800  | 2 8   | 11,800  | 2 65  | 10,800  | 2 45  | 9,650   | 2 2   | 8,330   | 1 95  | 6,520   | 1 55  |
| 371    | 2800             | 1 15             |   |   |   |   | 13,200  | 3 35  | 12,200  | 3 20  | 11,200  | 3 0   | 10,200  | 2 70  | 8,900   | 2 40  |
| 398    | 3000             | 1 32             |   |   |   |   | 14,500  | 4 2   | 13,600  | 4 05  | 12,700  | 3 8   | 11,500  | 3 60  | 10,800  | 3 35  |
| 424    | 3200             | 1 51             |   |   |   |   | 15,800  | 5 2   | 15,000  | 5 0   | 14,200  | 4 8   | 13,400  | 4 55  | 12,400  | 4 3   |
| 451    | 3400             | 1 70             |   |   |   |   |   |   | 16,300  | 6 1   | 15,600  | 5 9   | 14,700  | 5 6   | 13,900  | 5 4   |
| 478    | 3600             | 1 91             |   |   |   |   |   |   | 17,600  | 7 4   | 16,800  | 7 1   | 16,200  | 6 9   | 15,400  | 6 6   |
| 504    | 3800             | 2 13             |   |   |   |   |   |   |   |       | 18,200  | 8 6   | 17,500  | 8 3   | 16,800  | 8 0   |
| 530    | 4000             | 2 35             |   |   |   |   |   |   |   |       | 19,500  | 10    | 18,900  | 9 8   | 18,200  | 9 5   |
| 557    | 4200             | 2 59             |   |   |   |   |   |   |   |       |   |       | 20,100  | 11 5  | 19,500  | 11 0  |
| 584    | 4400             | 2 84             |   |   |   |   |   |   |   |       |   |       |   |       | 20,900  | 13 0  |
| 610    | 4600             | 3 11             |   |   |   |   |   |   |   |       |   |       |   |       | 22,200  | 15 5  |
| 637    | 4800             | 3 39             |   |   |   |   |   |   |   |       |   |       |   |       | 23,500  | 17 5  |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 oza. per sq. inch     | Static Pressure 1 1/4" Water .723 oza. per sq. inch | Static Pressure 1 1/2" Water .878 oza. per sq. inch | Static Pressure 1 3/4" Water 1.01 oza. per sq. inch | Static Pressure 2" Water 1.16 oza. per sq. inch     | Static Pressure 2 1/2" Water 1.45 oza. per sq. inch | Static Pressure 3" Water 1.73 oza. per sq. inch     |       |   |       |   |       |   |       |
| 371    | 2800             | 1 15             | 7,300   | 2 00  |   |   |   |   |   |       |   |       |   |       |   |       |
| 398    | 3000             | 1 32             | 9,610   | 2 95  |   |   |   |   |   |       |   |       |   |       |   |       |
| 424    | 3200             | 1 51             | 11,400  | 4 0   | 9,110   | 3 25  |   |   |   |       |   |       |   |       |   |       |
| 451    | 3400             | 1 70             | 13,100  | 5 1   | 11,200  | 4 45  | 8,470   | 3 4   |   |       |   |       |   |       |   |       |
| 478    | 3600             | 1 91             | 14,600  | 6 4   | 13,000  | 5 7   | 11,000  | 4 9   |   |       |   |       |   |       |   |       |
| 504    | 3800             | 2 13             | 16,100  | 7 8   | 14,700  | 7 2   | 13,000  | 6 4   | 11,000  | 5 5   |   |       |   |       |   |       |
| 530    | 4000             | 2 35             | 17,600  | 9 3   | 16,200  | 8 7   | 14,700  | 8 0   | 13,000  | 7 1   | 10,900  | 6 0   |   |       |   |       |
| 557    | 4200             | 2 59             | 18,900  | 11 0  | 17,700  | 10 5  | 16,300  | 9 7   | 14,800  | 8 9   | 13,200  | 8 0   |   |       |   |       |
| 584    | 4400             | 2 84             | 20,300  | 13 0  | 19,100  | 12 0  | 17,900  | 11 5  | 16,500  | 11 0  | 15,000  | 9 9   | 11,100  | 7 5   |   |       |
| 610    | 4600             | 3 11             | 21,700  | 15 0  | 20,600  | 14 5  | 19,400  | 13 5  | 18,100  | 13 0  | 16,800  | 12 0  | 13,700  | 10 0  |   |       |
| 637    | 4800             | 3 39             | 23,000  | 17 5  | 21,900  | 16 5  | 20,800  | 16 0  | 19,600  | 15 0  | 18,500  | 14 5  | 15,700  | 12 5  | 11,800  | 10 0  |
| 663    | 5000             | 3 67             | 24,300  | 19 5  | 23,200  | 19 0  | 22,200  | 18 0  | 21,200  | 17 5  | 20,000  | 17    | 17,600  | 15 0  | 14,600  | 12 5  |
| 697    | 5250             | 4 05             |   |   | 24,900  | 22 5  | 23,900  | 21 5  | 23,000  | 21 0  | 21,900  | 20    | 19,700  | 18 5  | 17,200  | 16 5  |
| 730    | 5500             | 4 45             |   |   | 26,500  | 26  | 25,400  | 25  | 24,700  | 24 5  | 23,700  | 24    | 21,700  | 22    | 19,100  | 20    |
| 763    | 5750             | 4 85             |   |   | 28,200  | 30  | 27,300  | 29  | 26,400  | 29    | 25,400  | 28    | 23,600  | 26    | 21,500  | 21    |
| 796    | 6000             | 5 29             |   |   |   |   | 29,000  | 34  | 28,100  | 33    | 27,200  | 32    | 25,400  | 30    | 23,000  | 29    |
| 829    | 6250             | 5 75             |   |   |   |   | 30,500  | 39  | 29,700  | 38    | 28,900  | 37    | 27,300  | 35    | 25,500  | 34    |
| 862    | 6500             | 6 20             |   |   |   |   |   |   | 31,400  | 43    | 30,500  | 42    | 28,900  | 40    | 27,100  | 39    |
| 895    | 6750             | 6 70             |   |   |   |   |   |   | 33,000  | 49    | 32,200  | 48    | 30,600  | 46    | 29,200  | 44    |
| 928    | 7000             | 7 20             |   |   |   |   |   |   |   |       | 33,900  | 54    | 32,500  | 52    | 31,000  | 50    |
| 965    | 7500             | 8 26             |   |   |   |   |   |   |   |       |   |       | 35,700  | 66    | 34,100  | 64    |
| 1060   | 8000             | 9 4              |   |   |   |   |   |   |   |       |   |       | 39,000  | 80    | 37,700  | 78    |
| 1125   | 8500             | 10 6             |   |   |   |   |   |   |   |       |   |       |   |       | 41,000  | 96    |
| 1192   | 9000             | 11 9             |   |   |   |   |   |   |   |       |   |       |   |       | 44,300  | 115   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 3 1/2" Water 2.02 oza. per sq. inch | Static Pressure 4" Water 2.31 oza. per sq. inch     | Static Pressure 5" Water 2.89 oza. per sq. inch     | Static Pressure 6" Water 3.47 oza. per sq. inch     | Static Pressure 7" Water 4.05 oza. per sq. inch     | Static Pressure 8" Water 4.63 oza. per sq. inch     | Static Pressure 9" Water 5.2 oza. per sq. inch      |       |   |       |   |       |   |       |
| 697    | 5250             | 4 05             | 13,800  | 13 5  |   |   |   |   |   |       |   |       |   |       |   |       |
| 730    | 5500             | 4 45             | 16,900  | 17 5  | 12,500  | 14 5  |   |   |   |       |   |       |   |       |   |       |
| 763    | 5750             | 4 85             | 19,300  | 22  | 16,500  | 19  |   |   |   |       |   |       |   |       |   |       |
| 796    | 6000             | 5 29             | 21,500  | 26  | 19,200  | 24  |   |   |   |       |   |       |   |       |   |       |
| 829    | 6250             | 5 75             | 23,600  | 31  | 21,600  | 29  | 16,200  | 22  |   |       |   |       |   |       |   |       |
| 862    | 6500             | 6 20             | 25,600  | 36  | 23,700  | 34  | 19,300  | 28  |   |       |   |       |   |       |   |       |
| 895    | 6750             | 6 70             | 27,600  | 42  | 25,800  | 40  | 21,900  | 34  | 16,500  | 26    |   |       |   |       |   |       |
| 928    | 7000             | 7 20             | 29,300  | 48  | 27,800  | 46  | 24,200  | 41  | 19,800  | 33    |   |       |   |       |   |       |
| 965    | 7500             | 8 26             | 32,900  | 62  | 31,600  | 60  | 28,400  | 54  | 24,800  | 48    | 20,700  | 41    |   |       |   |       |
| 1060   | 8000             | 9 4              | 36,400  | 76  | 35,100  | 74  | 32,300  | 70  | 29,400  | 64    | 26,000  | 58    | 21,800  | 48    |   |       |
| 1125   | 8500             | 10 6             | 39,800  | 94  | 38,500  | 92  | 36,000  | 86  | 33,400  | 82    | 30,500  | 76    | 27,300  | 68    | 23,200  | 58    |
| 1192   | 9000             | 11 9             | 43,100  | 115   | 41,900  | 110   | 39,000  | 105   | 37,200  | 100   | 34,800  | 96    | 32,000  | 88    | 28,800  | 80    |
| 1260   | 9500             | 13 28            | 46,400  | 135   | 45,300  | 135   | 43,100  | 130   | 40,900  | 120   | 38,600  | 115   | 36,200  | 110   | 33,400  | 105   |
| 1326   | 10000            | 14 7             |   |   | 48,500  | 160   | 46,500  | 150   | 44,400  | 145   | 42,100  | 140   | 40,100  | 135   | 37,800  | 130   |

Double Inlet

## No. 8 Multivane Fan — Design 2

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M. H. P. Static Pressure 1" Water .0722 oza. per sq. inch | Volume C.F.M. H. P. Static Pressure 1 1/4" Water .145 oza. per sq. inch | Volume C.F.M. H. P. Static Pressure 1 1/2" Water .217 oza. per sq. inch | Volume C.F.M. H. P. Static Pressure 1 3/4" Water .289 oza. per sq. inch | Volume C.F.M. H. P. Static Pressure 2" Water .361 oza. per sq. inch | Volume C.F.M. H. P. Static Pressure 2 1/4" Water .434 oza. per sq. inch | Volume C.F.M. H. P. Static Pressure 2 1/2" Water .506 oza. per sq. inch |
|--------|------------------|------------------|--|---|---|---|---|---|---|
| 111    | 1000             | 0.147            | 3,960 0.140  |   |   |   |   |   |   |
| 133    | 1200             | 0.212            | 6,690 0.325  |   |   |   |   |   |   |
| 155    | 1400             | 0.288            | 8,870 0.58   | 5,270 0.36  |   |   |   |   |   |
| 177    | 1600             | 0.376            | 10,900 0.90  | 8,280 0.72  |   |   |   |   |   |
| 199    | 1800             | 0.476            | 12,800 1.35  | 10,600 1.15   | 7,990 0.90  |   |   |   |   |
| 221    | 2000             | 0.588            |  | 12,700 1.70   | 10,700 1.45   | 7,870 1.10  |   |   |   |
| 243    | 2200             | 0.711            |  | 14,700 2.30   | 13,000 2.1  | 10,900 1.80   | 8,020 1.35  |   |   |
| 265    | 2400             | 0.847            |  | 16,600 3.10   | 15,100 2.9  | 13,400 2.60   | 11,400 2.25   | 8,720 1.75  |   |
| 287    | 2600             | 0.994            |  | 18,600 4.05   | 17,100 3.8  | 15,600 3.55   | 14,000 3.2  | 12,100 2.86   | 9,450 2.25  |
| 309    | 2800             | 1.15             |  |   | 19,100 4.9  | 17,700 4.6  | 16,300 4.3  | 14,700 3.95   | 12,900 3.50   |
| 332    | 3000             | 1.32             |  |   | 21,000 6.1  | 19,700 5.8  | 18,400 5.5  | 17,100 5.2  | 15,600 4.85   |
| 354    | 3200             | 1.51             |  |   | 22,800 7.6  | 21,700 7.2  | 20,600 7.0  | 19,400 6.6  | 18,000 6.3  |
| 376    | 3400             | 1.70             |  |   |   | 23,700 8.9  | 22,600 8.5  | 21,400 8.2  | 20,200 7.8  |
| 398    | 3600             | 1.91             |  |   |   | 25,500 11   | 24,400 10.5   | 23,400 10   | 22,300 9.6  |
| 420    | 3800             | 2.13             |  |   |   |   | 26,400 12.5   | 25,400 12   | 24,400 11.5   |
| 442    | 4000             | 2.35             |  |   |   |   | 28,300 14.5   | 27,400 14   | 26,400 14.0   |
| 464    | 4200             | 2.59             |  |   |   |   |   | 29,200 17   | 28,300 16.5   |
| 486    | 4400             | 2.81             |  |   |   |   |   |   | 30,300 19   |
| 508    | 4600             | 3.11             |  |   |   |   |   |   | 32,200 22   |
| 530    | 4800             | 3.39             |  |   |   |   |   |   | 34,100 26   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 oza. per sq. inch                      | Static Pressure 1 1/4" Water .723 oza. per sq. inch                     | Static Pressure 1 1/2" Water .878 oza. per sq. inch                     | Static Pressure 1 3/4" Water 1.01 oza. per sq. inch                     | Static Pressure 2" Water 1.16 oza. per sq. inch                     | Static Pressure 2 1/4" Water 1.45 oza. per sq. inch                     | Static Pressure 2 1/2" Water 1.73 oza. per sq. inch                     |
| 309    | 2800             | 1.15             | 10,600 2.9   |   |   |   |   |   |   |
| 332    | 3000             | 1.32             | 11,000 4.3   |   |   |   |   |   |   |
| 354    | 3200             | 1.51             | 16,600 5.8   | 13,200 1.7  |   |   |   |   |   |
| 376    | 3400             | 1.70             | 19,000 7.4   | 16,300 6.5  | 12,300 4.95   |   |   |   |   |
| 398    | 3600             | 1.91             | 21,200 9.3   | 18,900 8.3  | 16,000 7.2  |   |   |   |   |
| 420    | 3800             | 2.13             | 23,400 11.5  | 21,300 10.5   | 18,900 9.3  | 15,900 8.0  |   |   |   |
| 442    | 4000             | 2.35             | 25,100 13.5  | 23,100 12.5   | 21,300 11.5   | 18,900 10.5   | 15,700 8.8  |   |   |
| 464    | 4200             | 2.59             | 27,400 16.0  | 25,700 15.0   | 23,600 14   | 21,400 13.0   | 19,100 11.5   |   |   |
| 486    | 4400             | 2.81             | 29,400 18.5  | 27,700 17.5   | 26,000 17   | 24,000 15.5   | 21,800 14.5   | 16,000 11.0   |   |
| 508    | 4600             | 3.11             | 31,400 21.5  | 29,800 20.5   | 28,100 20   | 26,200 19   | 24,400 17.5   | 19,800 14.5   |   |
| 530    | 4800             | 3.39             | 33,300 25  | 31,700 24   | 30,200 23   | 28,500 22   | 26,800 21.0   | 22,800 18.0   | 17,200 15.0   |
| 552    | 5000             | 3.67             | 35,200 29  | 33,600 27   | 32,200 26   | 30,700 26   | 29,000 24.5   | 25,500 21.5   | 21,100 18.5   |
| 580    | 5250             | 4.05             |  | 36,000 32   | 34,700 31   | 33,300 30   | 31,800 29   | 28,600 27   | 24,900 23.5   |
| 608    | 5500             | 4.45             |  | 38,400 38   | 37,100 37   | 35,800 36   | 34,400 35   | 31,400 32   | 28,200 29   |
| 636    | 5750             | 4.85             |  | 40,800 44   | 39,500 43   | 38,300 41   | 36,900 40   | 34,100 38   | 31,200 35   |
| 663    | 6000             | 5.29             |  |   | 42,000 49   | 40,600 48   | 39,400 47   | 36,800 44   | 34,200 42   |
| 691    | 6250             | 5.75             |  |   | 44,300 56   | 43,000 54   | 41,900 54   | 39,500 52   | 37,000 49   |
| 718    | 6500             | 6.20             |  |   |   | 45,500 62   | 44,200 60   | 41,900 58   | 39,700 56   |
| 746    | 6750             | 6.70             |  |   |   | 47,800 70   | 46,700 70   | 44,400 66   | 42,300 64   |
| 774    | 7000             | 7.20             |  |   |   |   | 49,100 78   | 47,000 76   | 44,900 72   |
| 830    | 7500             | 8.26             |  |   |   |   |   | 51,700 94   | 49,800 92   |
| 885    | 8000             | 9.4              |  |   |   |   |   | 56,500 115  | 54,700 115  |
| 938    | 8500             | 10.6             |  |   |   |   |   |   | 59,400 140  |
| 996    | 9000             | 11.9             |  |   |   |   |   |   | 64,200 170  |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 3 1/2" Water 2.02 oza. per sq. inch                  | Static Pressure 4" Water 2.31 oza. per sq. inch                         | Static Pressure 5" Water 2.89 oza. per sq. inch                         | Static Pressure 6" Water 3.47 oza. per sq. inch                         | Static Pressure 7" Water 4.05 oza. per sq. inch                     | Static Pressure 8" Water 4.63 oza. per sq. inch                         | Static Pressure 9" Water 5.2 oza. per sq. inch                          |
| 580    | 5250             | 4.05             | 20,000 19.5  |   |   |   |   |   |   |
| 608    | 5500             | 4.45             | 24,500 26  | 18,200 21   |   |   |   |   |   |
| 636    | 5750             | 4.85             | 28,000 32  | 24,000 27   |   |   |   |   |   |
| 663    | 6000             | 5.29             | 31,200 38  | 27,900 34   |   |   |   |   |   |
| 691    | 6250             | 5.75             | 34,200 45  | 31,200 42   | 23,500 32   |   |   |   |   |
| 718    | 6500             | 6.20             | 37,100 52  | 34,400 49   | 28,000 41   |   |   |   |   |
| 746    | 6750             | 6.70             | 39,900 62  | 37,400 58   | 31,800 49   | 23,900 38   |   |   |   |
| 774    | 7000             | 7.20             | 42,500 70  | 40,300 66   | 35,100 58   | 28,600 48   |   |   |   |
| 830    | 7500             | 8.26             | 47,600 88  | 45,800 86   | 41,200 78   | 36,000 70   |   |   |   |
| 885    | 8000             | 9.40             | 52,700 110   | 50,900 110  | 46,900 100  | 42,600 92   | 37,700 82   | 31,500 70   |   |
| 938    | 8500             | 10.60            | 57,600 135   | 55,800 130  | 52,200 125  | 48,400 120  | 44,100 110  | 39,600 98   | 33,600 84   |
| 996    | 9000             | 11.90            | 62,500 165   | 60,700 160  | 57,400 155  | 54,000 145  | 50,100 140  | 46,300 130  | 41,800 115  |
| 1050   | 9500             | 13.28            | 67,300 195   | 65,600 190  | 62,500 185  | 59,200 175  | 56,000 170  | 52,400 160  | 48,400 150  |
| 1105   | 10000            | 14.7             |  | 70,400 230  | 67,400 220  | 64,300 210  | 61,400 205  | 58,100 195  | 54,900 185  |

Double Inlet

## No. 9 Multivane Fan—Design 2

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M. H. P. Static Pressure 1/2" Water .0722 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 3/4" Water .145 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1" Water .217 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1 1/4" Water .289 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1 1/2" Water .361 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1 3/4" Water .434 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 2" Water .506 ozs. per sq. inch |
|--------|------------------|------------------|--|---|---|---|---|---|---|
| 95     | 1000             | 0.147            | 5,350 0.185  |   |   |   |   |   |   |
| 111    | 1200             | 0.212            | 9,050 0.44   |   |   |   |   |   |   |
| 133    | 1400             | 0.288            | 12,000 0.78  | 7,140 0.49  |   |   |   |   |   |
| 152    | 1600             | 0.376            | 14,700 1.2   | 11,200 0.98   |   |   |   |   |   |
| 171    | 1800             | 0.476            | 17,300 1.8   | 14,400 1.55   | 10,800 1.20   |   |   |   |   |
| 190    | 2000             | 0.588            |  | 17,200 2.30   | 14,400 1.95   | 10,700 1.50   |   |   |   |
| 208    | 2200             | 0.711            |  | 19,900 3.15   | 17,500 2.85   | 14,800 2.15   | 10,900 1.85   |   |   |
| 228    | 2400             | 0.847            |  | 22,500 4.2  | 20,400 3.9  | 18,100 3.55   | 15,400 3.10   | 11,800 2.35   |   |
| 246    | 2600             | 0.994            |  | 25,100 5.5  | 23,100 5.2  | 21,100 4.8  | 18,900 4.35   | 16,300 3.8  | 12,800 3.05   |
| 265    | 2800             | 1.15             |  |   | 25,800 6.6  | 24,000 6.2  | 22,000 5.8  | 19,900 5.3  | 17,500 4.7  |
| 284    | 3000             | 1.32             |  |   | 28,400 8.3  | 26,700 7.9  | 24,900 7.5  | 23,100 7.0  | 21,100 6.6  |
| 303    | 3200             | 1.51             |  |   | 30,900 10.5   | 29,400 9.8  | 27,800 9.4  | 26,200 9.0  | 24,400 8.5  |
| 322    | 3400             | 1.70             |  |   |   | 32,000 12.0   | 30,500 11.5   | 28,900 11.0   | 27,300 10.5   |
| 341    | 3600             | 1.91             |  |   |   | 34,500 14.5   | 33,000 14   | 31,700 13.5   | 30,200 13.0   |
| 360    | 3800             | 2.13             |  |   |   |   | 35,700 17   | 34,300 16.0   | 33,000 15.5   |
| 379    | 4000             | 2.35             |  |   |   |   | 38,300 20   | 37,000 19.5   | 35,700 18.5   |
| 398    | 4200             | 2.59             |  |   |   |   |   | 39,500 23   | 38,300 22   |
| 417    | 4400             | 2.84             |  |   |   |   |   |   | 41,000 26   |
| 436    | 4600             | 3.11             |  |   |   |   |   |   | 43,500 30   |
| 455    | 4800             | 3.39             |  |   |   |   |   |   | 46,100 35   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 ozs. per sq. inch                        | Static Pressure 1 1/4" Water .723 ozs. per sq. inch                   | Static Pressure 1 1/2" Water .876 ozs. per sq. inch                 | Static Pressure 1 3/4" Water 1.01 ozs. per sq. inch                     | Static Pressure 2" Water 1.16 ozs. per sq. inch                         | Static Pressure 2 1/2" Water 1.45 ozs. per sq. inch                     | Static Pressure 3" Water 1.73 ozs. per sq. inch                     |
| 265    | 2800             | 1.15             | 14,300 3.9   |   |   |   |   |   |   |
| 284    | 3000             | 1.32             | 18,900 5.8   |   |   |   |   |   |   |
| 303    | 3200             | 1.51             | 22,400 7.8   | 17,900 6.4  |   |   |   |   |   |
| 322    | 3400             | 1.70             | 25,700 10.0  | 22,000 8.7  | 16,600 6.7  |   |   |   |   |
| 341    | 3600             | 1.91             | 28,700 12.5  | 25,500 11.5   | 21,600 9.7  |   |   |   |   |
| 360    | 3800             | 2.13             | 31,600 15.0  | 28,800 14.0   | 25,500 12.5   | 21,500 11.0   |   |   |   |
| 379    | 4000             | 2.35             | 34,400 18.0  | 31,700 17.0   | 28,800 15.5   | 25,500 14.0   | 21,300 12.0   |   |   |
| 398    | 4200             | 2.59             | 37,100 21.5  | 34,700 20.5   | 32,000 19   | 29,000 17.5   | 25,800 15.5   |   |   |
| 417    | 4400             | 2.84             | 39,800 25  | 37,500 24   | 35,100 23   | 32,400 21.5   | 29,500 19.5   | 21,700 14.5   |   |
| 436    | 4600             | 3.11             | 42,500 29  | 40,300 28   | 38,000 27   | 35,500 25   | 33,000 24   | 26,800 19.5   |   |
| 455    | 4800             | 3.39             | 45,000 34  | 42,900 32   | 40,800 31   | 38,500 30   | 36,200 28   | 30,800 24.5   | 23,200 20   |
| 474    | 5000             | 3.67             | 47,600 39  | 45,500 37   | 43,500 36   | 41,500 35   | 39,300 33   | 34,500 29   | 28,600 25   |
| 498    | 5250             | 4.05             |  | 48,800 44   | 46,900 42   | 45,000 41   | 43,000 40   | 38,700 36   | 33,700 32   |
| 522    | 5500             | 4.45             |  | 52,000 52   | 50,200 50   | 48,400 48   | 46,500 47   | 42,500 44   | 38,100 39   |
| 545    | 5750             | 4.85             |  | 55,200 60   | 53,500 58   | 51,800 56   | 49,900 54   | 46,100 52   | 42,200 47   |
| 569    | 6000             | 5.29             |  |   | 56,800 66   | 55,000 64   | 53,300 64   | 49,900 60   | 46,200 56   |
| 593    | 6250             | 5.75             |  |   | 59,900 76   | 58,200 74   | 56,700 72   | 53,500 70   | 50,000 66   |
| 616    | 6500             | 6.20             |  |   |   | 61,500 84   | 59,800 82   | 56,700 78   | 53,700 76   |
| 640    | 6750             | 6.70             |  |   |   | 64,600 96   | 63,200 94   | 60,000 90   | 57,200 86   |
| 663    | 7000             | 7.20             |  |   |   |   | 66,500 105  | 63,600 100  | 60,700 98   |
| 710    | 7500             | 8.26             |  |   |   |   |   | 70,000 130  | 67,400 125  |
| 758    | 8000             | 9.40             |  |   |   |   |   | 76,500 160  | 74,000 155  |
| 806    | 8500             | 10.6             |  |   |   |   |   |   | 80,300 190  |
| 852    | 9000             | 11.9             |  |   |   |   |   |   | 86,900 230  |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 3 1/2" Water 2.02 ozs. per sq. inch                    | Static Pressure 4" Water 2.31 ozs. per sq. inch                       | Static Pressure 5" Water 2.89 ozs. per sq. inch                     | Static Pressure 6" Water 3.47 ozs. per sq. inch                         | Static Pressure 7" Water 4.05 ozs. per sq. inch                         | Static Pressure 8" Water 4.63 ozs. per sq. inch                         | Static Pressure 9" Water 5.2 ozs. per sq. inch                      |
| 498    | 5250             | 4.05             | 27,100 26  |   |   |   |   |   |   |
| 522    | 5500             | 4.45             | 33,100 35  | 24,600 29   |   |   |   |   |   |
| 545    | 5750             | 4.85             | 37,800 43  | 32,400 37   |   |   |   |   |   |
| 569    | 6000             | 5.29             | 42,200 52  | 37,700 47   |   |   |   |   |   |
| 593    | 6250             | 5.75             | 46,300 62  | 42,200 56   | 31,800 43   |   |   |   |   |
| 616    | 6500             | 6.20             | 50,100 72  | 46,500 66   | 37,800 56   |   |   |   |   |
| 640    | 6750             | 6.70             | 54,000 82  | 50,600 78   | 43,000 66   | 32,300 52   |   |   |   |
| 663    | 7000             | 7.20             | 57,500 94  | 54,500 90   | 47,500 80   | 38,700 66   |   |   |   |
| 710    | 7500             | 8.26             | 64,500 120   | 62,000 115  | 55,700 105  | 48,600 94   | 40,500 80   |   |   |
| 758    | 8000             | 9.40             | 71,400 150   | 68,900 145  | 63,400 135  | 57,600 125  | 51,000 110  | 42,600 94   |   |
| 806    | 8500             | 10.6             | 78,000 185   | 75,500 180  | 70,600 170  | 65,500 160  | 59,700 150  | 53,500 135  | 45,500 115  |
| 852    | 9000             | 11.9             | 84,600 225   | 82,100 215  | 77,600 210  | 73,000 200  | 68,100 185  | 62,600 175  | 56,500 155  |
| 900    | 9500             | 13.28            | 91,000 265   | 88,700 260  | 84,500 250  | 80,100 240  | 75,700 230  | 70,900 215  | 65,500 200  |
| 950    | 10000            | 14.70            |  | 95,200 310  | 91,100 300  | 87,000 285  | 83,000 280  | 78,600 265  | 74,100 250  |

Double Inlet

## No. 10 Multivane Fan — Design 2

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. |
|--------|------------------|------------------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|
|        |                  |                  | Static Pressure 1/2" Water .0722 ozs. per sq. inch  |       | Static Pressure 1/2" Water .145 ozs. per sq. inch   |       | Static Pressure 3/4" Water .217 ozs. per sq. inch   |       | Static Pressure 1" Water .289 ozs. per sq. inch     |       | Static Pressure 1 1/4" Water .361 ozs. per sq. inch |       | Static Pressure 1 1/2" Water .434 ozs. per sq. inch |       | Static Pressure 1 3/4" Water .506 ozs. per sq. inch |       |
| 83     | 1000             | 0.147            | 7,020   | 0.245 |   |       |   |       |   |       |   |       |   |       |   |       |
| 100    | 1200             | 0.212            | 11,900  | 0.58  |   |       |   |       |   |       |   |       |   |       |   |       |
| 116    | 1400             | 0.288            | 15,800  | 1.0   | 9,350   | 0.64  |   |       |   |       |   |       |   |       |   |       |
| 133    | 1600             | 0.376            | 19,300  | 1.6   | 14,700  | 1.30  |   |       |   |       |   |       |   |       |   |       |
| 149    | 1800             | 0.476            | 22,700  | 2.4   | 18,900  | 2.05  | 14,200  | 1.60  |   |       |   |       |   |       |   |       |
| 166    | 2000             | 0.588            |   |       | 22,600  | 3.0   | 18,900  | 2.55  | 14,000  | 1.95  |   |       |   |       |   |       |
| 183    | 2200             | 0.711            |   |       | 26,200  | 4.1   | 23,000  | 3.75  | 19,400  | 3.20  | 14,200  | 2.4   |   |       |   |       |
| 199    | 2400             | 0.847            |   |       | 29,600  | 5.5   | 26,800  | 5.1   | 23,800  | 4.65  | 20,200  | 4.0   | 15,500  | 3.1   |   |       |
| 216    | 2600             | 0.994            |   |       | 33,000  | 7.2   | 30,400  | 6.8   | 27,700  | 6.3   | 24,800  | 5.7   | 21,500  | 5.0   | 16,800  | 4.0   |
| 232    | 2800             | 1.15             |   |       |   |       | 33,900  | 8.7   | 31,500  | 8.2   | 28,900  | 7.7   | 26,200  | 7.0   | 22,900  | 6.2   |
| 249    | 3000             | 1.32             |   |       |   |       | 37,300  | 11.0  | 35,000  | 10.5  | 32,700  | 9.8   | 30,400  | 9.2   | 27,700  | 8.6   |
| 266    | 3200             | 1.51             |   |       |   |       | 40,600  | 13.5  | 38,600  | 13    | 36,500  | 12.5  | 34,400  | 12.0  | 32,000  | 11.0  |
| 282    | 3400             | 1.70             |   |       |   |       |   |       | 42,000  | 16    | 40,000  | 15.0  | 38,000  | 14.5  | 35,800  | 14.0  |
| 299    | 3600             | 1.91             |   |       |   |       |   |       | 45,300  | 19    | 43,300  | 18.5  | 41,600  | 17.5  | 39,700  | 17.0  |
| 315    | 3800             | 2.13             |   |       |   |       |   |       |   |       | 46,000  | 22    | 45,000  | 21.5  | 43,300  | 20.5  |
| 332    | 4000             | 2.35             |   |       |   |       |   |       |   |       | 50,300  | 26    | 48,600  | 25    | 46,900  | 24.5  |
| 349    | 4200             | 2.59             |   |       |   |       |   |       |   |       |   |       | 51,900  | 30    | 50,300  | 29    |
| 365    | 4400             | 2.84             |   |       |   |       |   |       |   |       |   |       |   |       | 53,800  | 34    |
| 382    | 4600             | 3.11             |   |       |   |       |   |       |   |       |   |       |   |       | 57,100  | 39    |
| 399    | 4800             | 3.39             |   |       |   |       |   |       |   |       |   |       |   |       | 60,500  | 45    |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 ozs. per sq. inch     |       | Static Pressure 1 1/4" Water .723 ozs. per sq. inch |       | Static Pressure 1 1/2" Water .878 ozs. per sq. inch |       | Static Pressure 1 3/4" Water 1.01 ozs. per sq. inch |       | Static Pressure 2" Water 1.16 ozs. per sq. inch     |       | Static Pressure 2 1/4" Water 1.45 ozs. per sq. inch |       | Static Pressure 2 1/2" Water 1.73 ozs. per sq. inch |       |
| 232    | 2800             | 1.15             | 18,800  | 5.1   |   |       |   |       |   |       |   |       |   |       |   |       |
| 249    | 3000             | 1.32             | 21,800  | 7.7   |   |       |   |       |   |       |   |       |   |       |   |       |
| 266    | 3200             | 1.51             | 29,400  | 10.5  | 23,400  | 8.3   |   |       |   |       |   |       |   |       |   |       |
| 282    | 3400             | 1.70             | 33,700  | 13.0  | 28,900  | 11.5  | 21,800  | 8.8   |   |       |   |       |   |       |   |       |
| 299    | 3600             | 1.91             | 37,700  | 16.5  | 33,500  | 15.0  | 28,400  | 12.5  |   |       |   |       |   |       |   |       |
| 315    | 3800             | 2.13             | 41,500  | 20    | 37,800  | 18.5  | 33,500  | 16.5  | 28,200  | 14.0  |   |       |   |       |   |       |
| 332    | 4000             | 2.35             | 45,100  | 24    | 41,600  | 22.5  | 37,800  | 20.5  | 33,500  | 18.5  | 28,000  | 15.5  |   |       |   |       |
| 349    | 4200             | 2.59             | 48,600  | 28    | 45,600  | 27    | 42,000  | 25    | 38,000  | 23    | 33,800  | 20.5  |   |       |   |       |
| 365    | 4400             | 2.84             | 52,200  | 33    | 49,200  | 31    | 46,100  | 30    | 42,500  | 28    | 38,700  | 26    | 28,500  | 19    |   |       |
| 382    | 4600             | 3.11             | 55,800  | 38    | 52,900  | 37    | 49,300  | 35    | 46,600  | 33    | 43,300  | 31    | 35,200  | 26    |   |       |
| 399    | 4800             | 3.39             | 59,000  | 44    | 56,200  | 42    | 53,500  | 41    | 50,500  | 39    | 47,500  | 37    | 40,500  | 32    | 30,400  | 26    |
| 415    | 5000             | 3.67             | 62,500  | 50    | 59,600  | 49    | 57,100  | 47    | 54,500  | 45    | 51,500  | 43    | 45,300  | 38    | 37,500  | 33    |
| 436    | 5250             | 4.05             |   |       | 64,000  | 58    | 61,500  | 56    | 59,000  | 54    | 56,500  | 52    | 50,800  | 47    | 44,200  | 42    |
| 456    | 5500             | 4.45             |   |       | 68,200  | 68    | 66,000  | 66    | 63,500  | 64    | 61,000  | 62    | 55,800  | 58    | 50,000  | 52    |
| 477    | 5750             | 4.85             |   |       | 72,500  | 78    | 70,100  | 76    | 68,000  | 74    | 65,500  | 72    | 60,500  | 68    | 55,500  | 62    |
| 498    | 6000             | 5.29             |   |       |   |       | 74,500  | 88    | 72,100  | 84    | 69,900  | 82    | 65,500  | 78    | 60,600  | 74    |
| 519    | 6250             | 5.75             |   |       |   |       | 78,500  | 100   | 76,500  | 98    | 74,500  | 96    | 70,200  | 90    | 65,600  | 86    |
| 540    | 6500             | 6.20             |   |       |   |       |   |       | 80,700  | 110   | 78,500  | 110   | 74,500  | 105   | 70,500  | 100   |
| 560    | 6750             | 6.70             |   |       |   |       |   |       | 84,800  | 125   | 83,000  | 125   | 78,700  | 120   | 75,100  | 115   |
| 581    | 7000             | 7.20             |   |       |   |       |   |       |   |       | 87,200  | 140   | 83,500  | 135   | 79,700  | 130   |
| 622    | 7500             | 8.26             |   |       |   |       |   |       |   |       |   |       | 91,900  | 165   | 88,400  | 165   |
| 664    | 8000             | 9.4              |   |       |   |       |   |       |   |       |   |       | 100,000   | 210   | 97,200  | 200   |
| 705    | 8500             | 10.6             |   |       |   |       |   |       |   |       |   |       |   |       | 105,000   | 245   |
| 746    | 9000             | 11.9             |   |       |   |       |   |       |   |       |   |       |   |       | 114,000   | 300   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 3 1/2" Water 2.02 ozs. per sq. inch |       | Static Pressure 4" Water 2.31 ozs. per sq. inch     |       | Static Pressure 5" Water 2.89 ozs. per sq. inch     |       | Static Pressure 6" Water 3.47 ozs. per sq. inch     |       | Static Pressure 7" Water 4.05 ozs. per sq. inch     |       | Static Pressure 8" Water 4.63 ozs. per sq. inch     |       | Static Pressure 9" Water 5.2 ozs. per sq. inch      |       |
| 436    | 5250             | 4.05             | 35,600  | 34    |   |       |   |       |   |       |   |       |   |       |   |       |
| 456    | 5500             | 4.45             | 43,500  | 46    | 32,300  | 37    |   |       |   |       |   |       |   |       |   |       |
| 477    | 5750             | 4.85             | 49,600  | 56    | 42,500  | 49    |   |       |   |       |   |       |   |       |   |       |
| 498    | 6000             | 5.29             | 55,500  | 68    | 49,500  | 62    |   |       |   |       |   |       |   |       |   |       |
| 519    | 6250             | 5.75             | 60,700  | 80    | 55,500  | 74    | 41,700  | 36    |   |       |   |       |   |       |   |       |
| 540    | 6500             | 6.20             | 65,800  | 94    | 61,000  | 88    | 49,600  | 72    |   |       |   |       |   |       |   |       |
| 560    | 6750             | 6.70             | 70,900  | 110   | 66,500  | 100   | 56,500  | 88    | 42,400  | 68    |   |       |   |       |   |       |
| 581    | 7000             | 7.20             | 75,500  | 125   | 71,500  | 129   | 62,400  | 105   | 50,800  | 86    |   |       |   |       |   |       |
| 622    | 7500             | 8.26             | 84,600  | 155   | 81,400  | 155   | 73,100  | 140   | 64,000  | 125   | 53,100  | 105   |   |       |   |       |
| 664    | 8000             | 9.4              | 93,600  | 195   | 90,400  | 190   | 83,100  | 180   | 75,600  | 165   | 67,000  | 145   | 56,000  | 125   |   |       |
| 705    | 8500             | 10.6             | 102,000   | 240   | 99,000  | 235   | 92,600  | 220   | 86,000  | 210   | 78,500  | 195   | 70,300  | 175   | 59,700  | 150   |
| 746    | 9000             | 11.9             | 111,000   | 295   | 108,000   | 285   | 102,000   | 270   | 95,900  | 260   | 89,500  | 245   | 82,200  | 225   | 74,100  | 205   |
| 788    | 9500             | 13.28            | 119,000   | 350   | 116,000   | 340   | 111,000   | 330   | 105,000   | 315   | 99,400  | 300   | 93,000  | 285   | 80,000  | 265   |
| 830    | 10000            | 14.7             |   |       | 125,000   | 405   | 120,000   | 390   | 114,000   | 375   | 109,000   | 365   | 103,000   | 350   | 97,300  | 330   |



Double Inlet

## No. 11 Multivane Fan — Design 2

Single Width

When Discharging Air at 65 F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M. H. P. Static Pressure 1" Water .0722 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1 1/4" Water .145 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1 1/2" Water .217 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1 3/4" Water .289 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 2" Water .361 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 2 1/4" Water .434 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 2 1/2" Water .506 ozs. per sq. inch |
|--------|------------------|------------------|--|---|---|---|---|---|---|
| 75     | 10.00            | 0.147            | 8,820 0.305  |   |   |   |   |   |   |
| 88     | 12.00            | 0.212            | 11,900 0.73  |   |   |   |   |   |   |
| 103    | 14.00            | 0.288            | 19,800 1.3   | 11,800 0.80   |   |   |   |   |   |
| 118    | 16.00            | 0.376            | 21,200 2   | 18,500 1.60   |   |   |   |   |   |
| 132    | 18.00            | 0.476            | 28,500 3   | 23,700 2.60   | 17,800 2.00   |   |   |   |   |
| 147    | 20.00            | 0.588            |  | 28,400 3.75   | 23,800 3.25   | 17,600 2.45   |   |   |   |
| 162    | 22.00            | 0.711            |  | 32,900 5.2  | 28,900 4.7  | 24,100 4.05   | 17,900 3.05   |   |   |
| 177    | 24.00            | 0.847            |  | 37,100 7.0  | 33,700 6.4  | 29,900 5.8  | 25,100 5.0  | 19,500 3.85   |   |
| 191    | 26.00            | 0.994            |  | 41,100 9.1  | 38,200 8.5  | 34,800 7.9  | 31,200 7.2  | 27,000 6.3  | 21,100 5.0  |
| 206    | 28.00            | 1.15             |  |   | 42,600 11.0   | 39,600 10.5   | 36,300 9.6  | 32,800 8.8  | 28,800 7.8  |
| 221    | 30.00            | 1.32             |  |   | 46,900 13.5   | 41,000 13   | 41,100 12.5   | 38,200 11.5   | 34,800 11.0   |
| 235    | 32.00            | 1.51             |  |   | 51,000 17   | 48,500 16   | 45,900 15.5   | 43,200 15.0   | 40,200 14.0   |
| 250    | 34.00            | 1.70             |  |   |   | 52,800 20   | 50,300 19   | 47,600 18.5   | 45,000 17.5   |
| 265    | 36.00            | 1.91             |  |   |   | 57,000 24   | 54,500 23   | 52,300 22.5   | 49,800 21.5   |
| 279    | 38.00            | 2.13             |  |   |   |   | 58,900 28   | 56,600 27   | 54,500 26   |
| 294    | 40.00            | 2.35             |  |   |   |   | 63,200 33   | 61,000 32   | 58,900 31   |
| 309    | 42.00            | 2.59             |  |   |   |   |   | 65,100 37   | 63,100 36   |
| 324    | 44.00            | 2.84             |  |   |   |   |   |   | 67,600 43   |
| 338    | 46.00            | 3.11             |  |   |   |   |   |   | 71,800 49   |
| 353    | 48.00            | 3.39             |  |   |   |   |   |   | 76,100 58   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 ozs. per sq. inch                      | Static Pressure 1 1/4" Water .723 ozs. per sq. inch                     | Static Pressure 1 1/2" Water .878 ozs. per sq. inch                     | Static Pressure 1 3/4" Water 1.01 ozs. per sq. inch                     | Static Pressure 2" Water 1.16 ozs. per sq. inch                     | Static Pressure 2 1/4" Water 1.45 ozs. per sq. inch                     | Static Pressure 2 1/2" Water 1.73 ozs. per sq. inch                     |
| 206    | 28.00            | 1.15             | 23,600 6.5   |   |   |   |   |   |   |
| 221    | 30.00            | 1.32             | 31,100 9.6   |   |   |   |   |   |   |
| 235    | 32.00            | 1.51             | 37,000 13.0  | 29,500 10.5   |   |   |   |   |   |
| 250    | 34.00            | 1.70             | 42,400 16.5  | 36,300 14.5   | 27,400 11   |   |   |   |   |
| 265    | 36.00            | 1.91             | 47,300 20.5  | 42,000 18.5   | 35,600 16   |   |   |   |   |
| 279    | 38.00            | 2.13             | 52,100 25  | 47,500 23   | 42,000 21   | 35,400 18   |   |   |   |
| 294    | 40.00            | 2.35             | 56,700 30  | 52,300 28   | 47,500 26   | 42,100 23   | 35,100 19.5   |   |   |
| 309    | 42.00            | 2.59             | 61,100 35  | 57,200 34   | 52,800 32   | 47,800 29   | 42,600 26   |   |   |
| 324    | 44.00            | 2.84             | 65,600 41  | 61,900 39   | 57,900 38   | 53,500 35   | 48,600 32   | 35,800 24   |   |
| 338    | 46.00            | 3.11             | 70,000 48  | 66,400 46   | 62,700 44   | 58,600 42   | 54,500 39   | 44,200 32   |   |
| 353    | 48.00            | 3.39             | 74,200 56  | 70,700 54   | 67,300 52   | 63,500 49   | 59,700 47   | 50,800 40   | 38,300 33   |
| 368    | 50.00            | 3.67             | 78,500 64  | 75,000 62   | 71,700 58   | 68,500 58   | 64,900 54   | 57,000 48   | 47,100 41   |
| 386    | 52.50            | 4.05             |  | 80,500 72   | 77,300 70   | 74,200 68   | 71,000 66   | 63,800 60   | 55,600 52   |
| 404    | 55.00            | 4.45             |  | 85,700 81   | 82,800 82   | 79,800 80   | 76,600 78   | 70,100 72   | 62,900 66   |
| 423    | 57.50            | 4.85             |  | 91,000 98   | 88,200 94   | 85,400 92   | 82,200 90   | 76,000 84   | 69,600 78   |
| 441    | 60.00            | 5.29             |  |   | 93,600 110  | 90,700 105  | 87,900 105  | 82,300 98   | 76,200 92   |
| 459    | 62.50            | 5.75             |  |   | 98,700 125  | 96,000 120  | 93,500 120  | 88,300 115  | 82,500 110  |
| 478    | 65.00            | 6.20             |  |   |   | 101,000 140   | 98,600 135  | 93,500 130  | 88,600 125  |
| 496    | 67.50            | 6.70             |  |   |   | 107,000 155   | 104,000 155   | 99,000 150  | 94,400 145  |
| 514    | 70.00            | 7.20             |  |   |   |   | 110,000 175   | 105,000 170   | 100,000 160   |
| 550    | 75.00            | 8.26             |  |   |   |   |   | 115,000 210   | 111,000 250   |
| 587    | 80.00            | 9.4              |  |   |   |   |   | 126,000 260   | 122,000 255   |
| 624    | 85.00            | 10.6             |  |   |   |   |   |   | 132,000 310   |
| 660    | 90.00            | 11.9             |  |   |   |   |   |   | 143,000 375   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 3 1/2" Water 2.02 ozs. per sq. inch                  | Static Pressure 4" Water 2.31 ozs. per sq. inch                         | Static Pressure 5" Water 2.89 ozs. per sq. inch                         | Static Pressure 6" Water 3.47 ozs. per sq. inch                         | Static Pressure 7" Water 4.05 ozs. per sq. inch                     | Static Pressure 8" Water 4.63 ozs. per sq. inch                         | Static Pressure 9" Water 5.2 ozs. per sq. inch                          |
| 386    | 52.50            | 4.05             | 44,700 43  |   |   |   |   |   |   |
| 404    | 55.00            | 4.45             | 54,600 58  | 40,600 47   |   |   |   |   |   |
| 423    | 57.50            | 4.85             | 62,400 70  | 53,500 62   |   |   |   |   |   |
| 441    | 60.00            | 5.29             | 69,600 86  | 62,200 76   |   |   |   |   |   |
| 459    | 62.50            | 5.75             | 76,300 100   | 69,600 92   | 52,500 72   |   |   |   |   |
| 478    | 65.00            | 6.20             | 82,600 126   | 76,700 110  | 62,400 92   |   |   |   |   |
| 496    | 67.50            | 6.70             | 89,100 135   | 83,500 130  | 71,000 110  | 53,300 84   |   |   |   |
| 514    | 70.00            | 7.20             | 94,300 155   | 89,900 150  | 78,100 130  | 63,800 105  |   |   |   |
| 550    | 75.00            | 8.26             | 106,000 200  | 102,000 190   | 91,900 175  | 80,300 155  | 66,800 130  |   |   |
| 587    | 80.00            | 9.40             | 118,000 245  | 111,000 240   | 105,000 225   | 95,000 205  | 84,100 185  | 70,300 155  |   |
| 624    | 85.00            | 10.60            | 129,000 300  | 125,000 295   | 117,000 280   | 108,000 265   | 98,500 245  | 88,300 220  | 75,000 190  |
| 660    | 90.00            | 11.90            | 140,000 370  | 135,000 360   | 128,000 340   | 120,000 325   | 112,000 310   | 103,000 285   | 93,200 260  |
| 697    | 95.00            | 13.28            | 150,000 410  | 146,000 430   | 139,000 415   | 132,000 395   | 125,000 380   | 117,000 360   | 108,000 335   |
| 733    | 100.00           | 14.7             |  | 157,000 510   | 150,000 490   | 144,000 470   | 137,000 460   | 130,000 435   | 122,000 415   |

Double Inlet

## No. 12 Multivane Fan — Design 2

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.                                      | H. P. | Volume C.F.M.                                     | H. P. | Volume C.F.M.                                     | H. P. | Volume C.F.M.                                   | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. |
|--------|------------------|------------------|--|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|
|        |                  |                  | Static Pressure 1/2" Water .0722 ozs. per sq. inch |       | Static Pressure 1/2" Water .145 ozs. per sq. inch |       | Static Pressure 3/4" Water .217 ozs. per sq. inch |       | Static Pressure 1" Water .289 ozs. per sq. inch |       | Static Pressure 1 1/4" Water .361 ozs. per sq. inch |       | Static Pressure 1 1/2" Water .434 ozs. per sq. inch |       | Static Pressure 1 3/4" Water .506 ozs. per sq. inch |       |
| 67     | 1000             | 0 147            | 10,900   | 0 38  |   |       |   |       |   |       |   |       |   |       |   |       |
| 80     | 1200             | 0 212            | 18,500   | 0 90  |   |       |   |       |   |       |   |       |   |       |   |       |
| 93     | 1100             | 0 288            | 21,500   | 1 6   | 14,500  | 1 00  |   |       |   |       |   |       |   |       |   |       |
| 106    | 1600             | 0 376            | 30,000   | 2 5   | 22,800  | 2 00  |   |       |   |       |   |       |   |       |   |       |
| 120    | 1800             | 0 476            | 35,200   | 3 7   | 30,300  | 3 20  | 22,000  | 2 45  |   |       |   |       |   |       |   |       |
| 133    | 2000             | 0 588            |  |       | 35,100  | 4 65  | 29,100  | 4 0   | 21,700  | 3 0   |   |       |   |       |   |       |
| 146    | 2200             | 0 711            |  |       | 40,600  | 6 1   | 35,700  | 5 8   | 30,100  | 5 0   | 22,100  | 3 75  |   |       |   |       |
| 159    | 2100             | 0 847            |  |       | 45,900  | 8 6   | 41,600  | 7 9   | 36,900  | 7 2   | 31,400  | 6 2   | 21,100  | 4 8   |   |       |
| 173    | 2600             | 0 994            |  |       | 51,200  | 11    | 47,100  | 10 5  | 43,000  | 9 8   | 38,600  | 8 8   | 33,400  | 7 8   | 26,100  | 6 2   |
| 186    | 2800             | 1 15             |  |       |   |       | 52,600  | 13 5  | 49,000  | 12 5  | 44,900  | 12 0  | 40,600  | 11 0  | 35,600  | 9 6   |
| 199    | 3000             | 1 32             |  |       |   |       | 57,900  | 17    | 54,500  | 16 0  | 50,800  | 15 5  | 47,100  | 14 5  | 43,000  | 13 5  |
| 212    | 3200             | 1 51             |  |       |   |       | 63,100  | 21    | 60,000  | 20 0  | 56,700  | 19 0  | 53,500  | 18 5  | 49,800  | 17 5  |
| 226    | 3100             | 1 70             |  |       |   |       |   |       | 65,200  | 24 5  | 62,300  | 23 5  | 59,000  | 22 5  | 55,600  | 21 5  |
| 239    | 3600             | 1 91             |  |       |   |       |   |       | 70,100  | 30    | 67,100  | 29    | 64,600  | 28    | 61,600  | 26    |
| 252    | 3800             | 2 13             |  |       |   |       |   |       |   |       | 72,900  | 31    | 70,000  | 30    | 67,300  | 32    |
| 265    | 4000             | 2 35             |  |       |   |       |   |       |   |       | 78,100  | 41    | 75,500  | 39    | 72,800  | 38    |
| 279    | 4200             | 2 59             |  |       |   |       |   |       |   |       |   |       | 80,500  | 46    | 78,100  | 45    |
| 299    | 4100             | 2 84             |  |       |   |       |   |       |   |       |   |       |   |       | 83,600  | 52    |
| 305    | 4600             | 3 11             |  |       |   |       |   |       |   |       |   |       |   |       | 88,700  | 60    |
| 318    | 4800             | 3 39             |  |       |   |       |   |       |   |       |   |       |   |       | 94,100  | 70    |

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 ozs. per sq. inch | Static Pressure 1 1/4" Water .723 ozs. per sq. inch | Static Pressure 1 1/2" Water .878 ozs. per sq. inch | Static Pressure 1 3/4" Water 1.01 ozs. per sq. inch | Static Pressure 2" Water 1.16 ozs. per sq. inch | Static Pressure 2 1/2" Water 1.45 ozs. per sq. inch | Static Pressure 3" Water 1.73 ozs. per sq. inch |
|--------|------------------|------------------|---|---|---|---|---|---|---|
| 186    | 2800             | 1 15             | 29,200  | 8 0   |   |   |   |   |   |
| 199    | 3000             | 1 32             | 38,500  | 12 0  |   |   |   |   |   |
| 212    | 3200             | 1 51             | 45,700  | 16 0  | 36,500  | 13  |   |   |   |
| 226    | 3100             | 1 70             | 42,500  | 20 5  | 41,900  | 18  |   |   |   |
| 239    | 3600             | 1 91             | 58,500  | 26  | 52,000  | 23  |   |   |   |
| 252    | 3800             | 2 13             | 64,500  | 31  | 58,800  | 29  |   |   |   |
| 265    | 4000             | 2 35             | 70,100  | 37  | 64,600  | 35  | 43,900  | 22  |   |
| 279    | 4200             | 2 59             | 75,600  | 41  | 70,800  | 42  | 52,000  | 29  |   |
| 299    | 4100             | 2 84             | 81,200  | 52  | 76,500  | 49  | 59,100  | 36  |   |
| 305    | 4600             | 3 11             | 86,600  | 60  | 82,200  | 58  | 66,100  | 43  |   |
| 318    | 4800             | 3 39             | 91,800  | 68  | 87,500  | 66  | 72,500  | 52  |   |
| 332    | 5000             | 3 67             | 97,200  | 78  | 92,900  | 76  | 78,500  | 60  |   |
| 348    | 5250             | 4 05             |   |   | 98,800  | 72  | 84,000  | 70  |   |
| 365    | 5500             | 4 45             |   |   | 99,500  | 86  | 80,100  | 68  |   |
| 381    | 5750             | 4 85             |   |   | 106,000   | 105   | 91,900  | 84  |   |
| 398    | 6000             | 5 29             |   |   | 109,000   | 115   | 98,600  | 98  |   |
| 414    | 6250             | 5 75             |   |   | 113,000   | 120   | 100,000   | 115   |   |
| 431    | 6500             | 6 20             |   |   | 116,000   | 135   | 102,000   | 110   |   |
| 448    | 6750             | 6 70             |   |   | 122,000   | 155   | 109,000   | 130   |   |
| 464    | 7000             | 7 20             |   |   |   |   | 119,000   | 150   |   |
| 497    | 7500             | 8 26             |   |   |   |   | 125,000   | 170   |   |
| 531    | 8000             | 9 4              |   |   |   |   | 132,000   | 195   |   |
| 564    | 8500             | 10 6             |   |   |   |   |   |   |   |
| 597    | 9000             | 11 9             |   |   |   |   |   |   |   |

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 3 1/2" Water 2.02 ozs. per sq. inch | Static Pressure 4" Water 2.31 ozs. per sq. inch | Static Pressure 5" Water 2.89 ozs. per sq. inch | Static Pressure 6" Water 3.47 ozs. per sq. inch | Static Pressure 7" Water 4.05 ozs. per sq. inch | Static Pressure 8" Water 4.63 ozs. per sq. inch | Static Pressure 9" Water 5.2 ozs. per sq. inch |
|--------|------------------|------------------|---|---|---|---|---|---|--|
| 348    | 5250             | 4 05             | 55,200  | 51  |   |   |   |   |  |
| 365    | 5500             | 4 45             | 67,500  | 70  |   |   |   |   |  |
| 381    | 5750             | 4 85             | 77,100  | 88  |   |   |   |   |  |
| 398    | 6000             | 5 29             | 86,000  | 105   |   |   |   |   |  |
| 414    | 6250             | 5 75             | 94,500  | 125   | 61,000  | 88  |   |   |  |
| 431    | 6500             | 6 20             | 102,000   | 145   | 77,100  | 115   |   |   |  |
| 448    | 6750             | 6 70             | 110,000   | 170   | 87,700  | 135   |   |   |  |
| 464    | 7000             | 7 20             | 117,000   | 195   | 96,800  | 160   | 65,900  | 105   |  |
| 497    | 7500             | 8 26             | 132,000   | 245   | 114,000   | 215   | 79,000  | 135   |  |
| 531    | 8000             | 9 4              | 145,000   | 305   | 129,000   | 280   | 90,100  | 190   |  |
| 564    | 8500             | 10 6             | 159,000   | 375   | 144,000   | 345   | 118,000   | 255   |  |
| 597    | 9000             | 11 9             | 173,000   | 455   | 158,000   | 425   | 134,000   | 325   |  |
| 630    | 9500             | 13 28            | 186,000   | 545   | 172,000   | 510   | 149,000   | 405   |  |
| 661    | 10000            | 14 7             |   |   | 186,000   | 610   | 163,000   | 490   |  |

Double Inlet

## No. 13 Multivane Fan — Design 2

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.<br>Static Pressure 1" Water<br>.0722 ozs. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure 1½" Water<br>.145 ozs. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure 2" Water<br>.217 ozs. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure 2½" Water<br>.289 ozs. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure 3" Water<br>.361 ozs. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure 3½" Water<br>.434 ozs. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure 4" Water<br>.506 ozs. per sq. inch | H. P. |
|--------|------------------|------------------|--|-------|--|-------|---|-------|--|-------|---|-------|--|-------|---|-------|
| 60     | 1000             | 0.147            | 13,200   | 0.46  |  |       |   |       |  |       |   |       |  |       |   |       |
| 72     | 1200             | 0.212            | 22,100   | 1.10  |  |       |   |       |  |       |   |       |  |       |   |       |
| 84     | 1400             | 0.288            | 29,700   | 1.95  | 17,700   | 1.2   |   |       |  |       |   |       |  |       |   |       |
| 97     | 1600             | 0.376            | 36,300   | 3.05  | 27,700   | 2.4   |   |       |  |       |   |       |  |       |   |       |
| 109    | 1800             | 0.476            | 42,700   | 4.5   | 35,600   | 3.9   | 26,700  | 3.00  |  |       |   |       |  |       |   |       |
| 121    | 2000             | 0.588            | 49,200   | 7.8   | 42,000   | 5.6   | 35,600  | 4.85  | 26,400   | 3.7   |   |       |  |       |   |       |
| 133    | 2200             | 0.711            | 55,600   | 10.5  | 49,200   | 7.8   | 43,400  | 7.1   | 36,600   | 6.1   | 26,800  | 4.5   |  |       |   |       |
| 145    | 2400             | 0.847            | 62,100   | 13.5  | 55,600   | 10.5  | 50,500  | 9.6   | 44,800   | 8.7   | 38,200  | 7.5   | 29,200   | 5.8   |   |       |
| 157    | 2600             | 0.994            |  |       |  |       | 57,100  | 13.0  | 52,200   | 12.0  | 46,800  | 10.5  | 40,500   | 9.4   | 31,700  | 7.5   |
| 169    | 2800             | 1.15             |  |       |  |       | 63,800  | 16.5  | 59,400   | 15.5  | 54,500  | 14.5  | 49,200   | 13.0  | 43,100  | 11.5  |
| 181    | 3000             | 1.32             |  |       |  |       | 70,300  | 20.5  | 66,100   | 19.5  | 61,600  | 18.5  | 57,100   | 17.5  | 52,200  | 16.5  |
| 193    | 3200             | 1.51             |  |       |  |       | 76,500  | 25    | 72,800   | 24    | 68,800  | 23    | 64,900   | 22    | 60,400  | 21    |
| 205    | 3400             | 1.70             |  |       |  |       |   |       | 79,100   | 30    | 75,500  | 29    | 71,500   | 27    | 67,500  | 26    |
| 217    | 3600             | 1.91             |  |       |  |       |   |       | 85,400   | 36    | 81,600  | 35    | 78,500   | 33    | 74,700  | 32    |
| 229    | 3800             | 2.13             |  |       |  |       |   |       |  |       | 88,300  | 42    | 84,900   | 40    | 81,600  | 39    |
| 241    | 4000             | 2.35             |  |       |  |       |   |       |  |       | 94,800  | 49    | 91,600   | 48    | 88,400  | 46    |
| 253    | 4200             | 2.59             |  |       |  |       |   |       |  |       |   |       | 97,700   | 56    | 94,800  | 54    |
| 265    | 4400             | 2.84             |  |       |  |       |   |       |  |       |   |       |  |       | 102,000   | 64    |
| 277    | 4600             | 3.11             |  |       |  |       |   |       |  |       |   |       |  |       | 108,000   | 74    |
| 289    | 4800             | 3.39             |  |       |  |       |   |       |  |       |   |       |  |       | 114,000   | 86    |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water<br>.578 ozs. per sq. inch                   | H. P. | Static Pressure 1½" Water<br>.723 ozs. per sq. inch                  | H. P. | Static Pressure 2" Water<br>.878 ozs. per sq. inch                  | H. P. | Static Pressure 2½" Water<br>1.01 ozs. per sq. inch                  | H. P. | Static Pressure 3" Water<br>1.16 ozs. per sq. inch                  | H. P. | Static Pressure 3½" Water<br>1.45 ozs. per sq. inch                  | H. P. | Static Pressure 4" Water<br>1.73 ozs. per sq. inch                  | H. P. |
| 169    | 2800             | 1.15             | 35,400   | 9.7   |  |       |   |       |  |       |   |       |  |       |   |       |
| 181    | 3000             | 1.32             | 46,600   | 14.5  |  |       |   |       |  |       |   |       |  |       |   |       |
| 193    | 3200             | 1.51             | 55,500   | 19.5  | 44,300   | 15.5  |   |       |  |       |   |       |  |       |   |       |
| 205    | 3400             | 1.70             | 63,600   | 25    | 54,500   | 21.5  | 41,100  | 16.5  |  |       |   |       |  |       |   |       |
| 217    | 3600             | 1.91             | 71,000   | 31    | 63,100   | 28    | 53,500  | 24    |  |       |   |       |  |       |   |       |
| 229    | 3800             | 2.13             | 78,200   | 38    | 71,200   | 35    | 63,100  | 31    | 53,200   | 26    |   |       |  |       |   |       |
| 241    | 4000             | 2.35             | 85,100   | 45    | 78,500   | 42    | 71,300  | 39    | 63,100   | 35    | 52,700  | 29    |  |       |   |       |
| 253    | 4200             | 2.59             | 91,800   | 54    | 85,900   | 50    | 79,200  | 47    | 71,700   | 43    | 63,900  | 39    |  |       |   |       |
| 265    | 4400             | 2.84             | 98,500   | 62    | 92,800   | 60    | 86,900  | 56    | 80,200   | 52    | 73,000  | 48    | 53,700   | 36    |   |       |
| 277    | 4600             | 3.11             | 105,000  | 72    | 99,700   | 70    | 94,000  | 66    | 87,900   | 62    | 81,600  | 58    | 66,300   | 49    |   |       |
| 289    | 4800             | 3.39             | 111,000  | 84    | 106,000  | 80    | 101,000   | 76    | 95,300   | 74    | 89,600  | 70    | 76,200   | 60    | 57,400  | 50    |
| 301    | 5000             | 3.67             | 118,000  | 96    | 113,000  | 92    | 108,000   | 88    | 103,000  | 86    | 97,100  | 82    | 85,400   | 72    | 70,800  | 62    |
| 316    | 5250             | 4.05             |  |       | 121,000  | 110   | 116,000   | 105   | 111,000  | 100   | 106,000   | 98    | 95,800   | 90    | 83,400  | 80    |
| 332    | 5500             | 4.45             |  |       | 129,000  | 125   | 124,000   | 125   | 120,000  | 120   | 115,000   | 115   | 105,000  | 110   | 94,400  | 98    |
| 347    | 5750             | 4.85             |  |       | 137,000  | 145   | 132,000   | 140   | 128,000  | 140   | 123,000   | 135   | 114,000  | 125   | 105,000   | 115   |
| 362    | 6000             | 5.29             |  |       |  |       | 141,000   | 165   | 136,000  | 160   | 132,000   | 155   | 123,000  | 150   | 114,000   | 140   |
| 377    | 6250             | 5.75             |  |       |  |       | 148,000   | 190   | 144,000  | 185   | 140,000   | 180   | 132,000  | 170   | 124,000   | 165   |
| 392    | 6500             | 6.20             |  |       |  |       |   |       | 152,000  | 210   | 148,000   | 205   | 140,000  | 195   | 133,000   | 185   |
| 407    | 6750             | 6.70             |  |       |  |       |   |       | 160,000  | 235   | 156,000   | 230   | 149,000  | 220   | 142,000   | 215   |
| 422    | 7000             | 7.20             |  |       |  |       |   |       |  |       | 165,000   | 260   | 158,000  | 250   | 150,000   | 245   |
| 437    | 7250             | 7.75             |  |       |  |       |   |       |  |       |   |       | 173,000  | 315   | 167,000   | 310   |
| 452    | 7500             | 8.26             |  |       |  |       |   |       |  |       |   |       | 189,000  | 390   | 183,000   | 380   |
| 467    | 7750             | 8.85             |  |       |  |       |   |       |  |       |   |       |  |       | 199,000   | 465   |
| 482    | 8000             | 9.4              |  |       |  |       |   |       |  |       |   |       |  |       | 215,000   | 565   |
| 512    | 8500             | 10.6             |  |       |  |       |   |       |  |       |   |       |  |       |   |       |
| 542    | 9000             | 11.9             |  |       |  |       |   |       |  |       |   |       |  |       |   |       |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 3½" Water<br>2.02 ozs. per sq. inch                  | H. P. | Static Pressure 4" Water<br>2.31 ozs. per sq. inch                   | H. P. | Static Pressure 5" Water<br>2.89 ozs. per sq. inch                  | H. P. | Static Pressure 6" Water<br>3.47 ozs. per sq. inch                   | H. P. | Static Pressure 7" Water<br>4.05 ozs. per sq. inch                  | H. P. | Static Pressure 8" Water<br>4.63 ozs. per sq. inch                   | H. P. | Static Pressure 9" Water<br>5.2 ozs. per sq. inch                   | H. P. |
| 316    | 5250             | 4.05             | 67,000   | 64    |  |       |   |       |  |       |   |       |  |       |   |       |
| 332    | 5500             | 4.45             | 81,900   | 86    | 60,900   | 70    |   |       |  |       |   |       |  |       |   |       |
| 347    | 5750             | 4.85             | 93,500   | 105   | 80,100   | 92    |   |       |  |       |   |       |  |       |   |       |
| 362    | 6000             | 5.29             | 104,000  | 130   | 93,300   | 115   |   |       |  |       |   |       |  |       |   |       |
| 377    | 6250             | 5.75             | 114,000  | 150   | 105,000  | 140   | 78,600  | 105   |  |       |   |       |  |       |   |       |
| 392    | 6500             | 6.20             | 124,000  | 175   | 115,000  | 165   | 93,500  | 135   |  |       |   |       |  |       |   |       |
| 407    | 6750             | 6.70             | 134,000  | 205   | 125,000  | 195   | 106,000   | 165   | 80,000   | 125   |   |       |  |       |   |       |
| 422    | 7000             | 7.20             | 142,000  | 235   | 135,000  | 220   | 118,000   | 195   | 95,700   | 160   |   |       |  |       |   |       |
| 437    | 7250             | 7.75             | 160,000  | 295   | 153,000  | 290   | 138,000   | 260   | 120,000  | 235   | 100,000   | 195   |  |       |   |       |
| 452    | 7500             | 8.26             | 177,000  | 370   | 170,000  | 360   | 157,000   | 340   | 143,000  | 310   | 126,000   | 275   | 106,000  | 235   |   |       |
| 467    | 7750             | 8.85             | 193,000  | 455   | 187,000  | 445   | 175,000   | 420   | 162,000  | 395   | 148,000   | 370   | 132,000  | 330   | 113,000   | 280   |
| 482    | 8000             | 9.4              | 209,000  | 550   | 203,000  | 535   | 192,000   | 515   | 181,000  | 490   | 169,000   | 460   | 155,000  | 430   | 140,000   | 390   |
| 512    | 8500             | 10.6             | 225,000  | 680   | 219,000  | 645   | 209,000   | 620   | 198,000  | 595   | 187,000   | 570   | 175,000  | 535   | 162,000   | 500   |
| 542    | 9000             | 11.9             |  |       | 236,000  | 765   | 226,000   | 735   | 215,000  | 710   | 205,000   | 690   | 195,000  | 655   | 183,000   | 620   |

| Double Inlet   |                  | No. 14 Multivane Fan — Design 2 |   |       |   |       |   |       |   |       |   | Single Width |   |   |
|--|------------------|---------------------------------|---|-------|---|-------|---|-------|---|-------|---|--------------|---|---|
| When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances |                  |                                 |   |       |   |       |   |       |   |       |   |              |   |   |
| R.P.M.   | Tip Speed F.P.M. | S.N.D. in inches                | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                     | H. P.        | Volume C.F.M.                                       | H. P.   |
|  |                  |                                 | Static Pressure 1/2" Water .0722 ozs. per sq. inch  |       | Static Pressure 1/4" Water .145 ozs. per sq. inch   |       | Static Pressure 3/8" Water .217 ozs. per sq. inch   |       | Static Pressure 1/2" Water .289 ozs. per sq. inch   |       | Static Pressure 5/8" Water .361 ozs. per sq. inch |              | Static Pressure 3/4" Water .434 ozs. per sq. inch   | Static Pressure 7/8" Water .506 ozs. per sq. inch |
| 56   | 1000             | 0.147                           | 15,800  | 0.55  |   |       |   |       |   |       |   |              |   |   |
| 67   | 1200             | 0.212                           | 26,800  | 1.3   |   |       |   |       |   |       |   |              |   |   |
| 78   | 1400             | 0.288                           | 35,400  | 2.3   | 21,100  | 1.45  |   |       |   |       |   |              |   |   |
| 89   | 1600             | 0.376                           | 43,400  | 3.6   | 33,100  | 2.90  |   |       |   |       |   |              |   |   |
| 100  | 1800             | 0.476                           | 51,000  | 5.4   | 42,500  | 4.65  | 31,900  | 3.55  |   |       |   |              |   |   |
| 111  | 2000             | 0.588                           |   |       | 50,900  | 6.7   | 42,500  | 5.8   | 31,500  | 4.4   |   |              |   |   |
| 122  | 2200             | 0.711                           |   |       | 58,900  | 9.3   | 51,800  | 8.4   | 43,600  | 7.2   | 32,000  | 5.4          |   |   |
| 133  | 2400             | 0.847                           |   |       | 66,500  | 12.5  | 60,300  | 11.5  | 53,500  | 10.5  | 45,500  | 9            | 34,900  | 6.0   |
| 144  | 2600             | 0.991                           |   |       | 74,100  | 16.5  | 68,300  | 15.0  | 62,400  | 14.0  | 55,900  | 13           | 48,300  | 11.0  |
| 155  | 2800             | 1.15                            |   |       |   |       | 76,200  | 19.5  | 70,900  | 18.5  | 65,000  | 17           | 58,800  | 15.5  |
| 166  | 3000             | 1.32                            |   |       |   |       | 84,000  | 24.5  | 78,900  | 23.5  | 73,500  | 22           | 68,200  | 21  |
| 177  | 3200             | 1.51                            |   |       |   |       | 91,300  | 30    | 86,800  | 29    | 82,000  | 28           | 77,400  | 26  |
| 188  | 3400             | 1.70                            |   |       |   |       |   |       | 94,500  | 36    | 90,000  | 34           | 85,400  | 33  |
| 199  | 3600             | 1.91                            |   |       |   |       |   |       | 102,000   | 43    | 97,500  | 41           | 93,500  | 40  |
| 210  | 3800             | 2.13                            |   |       |   |       |   |       |   |       | 105,000   | 50           | 101,000   | 48  |
| 221  | 4000             | 2.35                            |   |       |   |       |   |       |   |       | 113,000   | 58           | 109,000   | 56  |
| 232  | 4200             | 2.59                            |   |       |   |       |   |       |   |       |   |              | 117,000   | 68  |
| 243  | 4400             | 2.84                            |   |       |   |       |   |       |   |       |   |              |   | 129,000   |
| 254  | 4600             | 3.11                            |   |       |   |       |   |       |   |       |   |              |   | 121,000   |
| 266  | 4800             | 3.39                            |   |       |   |       |   |       |   |       |   |              |   | 129,000   |
|  |                  |                                 |   |       |   |       |   |       |   |       |   |              |   | 136,000   |
|  |                  |                                 |   |       |   |       |   |       |   |       |   |              |   | 100   |
| R.P.M.   | Tip Speed F.P.M. | S.N.D. in inches                | Static Pressure 1" Water .578 ozs. per sq. inch     |       | Static Pressure 1 1/4" Water .723 ozs. per sq. inch |       | Static Pressure 1 1/2" Water .878 ozs. per sq. inch |       | Static Pressure 1 3/4" Water 1.01 ozs. per sq. inch |       | Static Pressure 2" Water 1.16 ozs. per sq. inch   |              | Static Pressure 2 1/2" Water 1.45 ozs. per sq. inch | Static Pressure 3" Water 1.73 ozs. per sq. inch   |
| 155  | 2800             | 1.15                            | 42,200  | 11.5  |   |       |   |       |   |       |   |              |   |   |
| 166  | 3000             | 1.32                            | 55,700  | 17    |   |       |   |       |   |       |   |              |   |   |
| 177  | 3200             | 1.51                            | 66,200  | 23    | 52,800  | 19    |   |       |   |       |   |              |   |   |
| 188  | 3400             | 1.70                            | 76,000  | 30    | 65,000  | 26    | 49,000  | 20    |   |       |   |              |   |   |
| 199  | 3600             | 1.91                            | 84,800  | 37    | 75,300  | 33    | 63,800  | 29    |   |       |   |              |   |   |
| 210  | 3800             | 2.13                            | 93,300  | 45    | 85,000  | 42    | 75,400  | 37    | 63,500  | 32    |   |              |   |   |
| 221  | 4000             | 2.35                            | 102,000   | 54    | 93,600  | 50    | 85,000  | 46    | 75,400  | 41    | 63,000  | 35           |   |   |
| 232  | 4200             | 2.59                            | 110,000   | 64    | 103,000   | 60    | 94,500  | 56    | 85,600  | 52    | 76,200  | 46           |   |   |
| 243  | 4400             | 2.84                            | 118,000   | 74    | 111,000   | 70    | 104,000   | 68    | 95,700  | 62    | 87,100  | 58           | 64,100  | 43  |
| 254  | 4600             | 3.11                            | 126,000   | 86    | 119,000   | 82    | 112,000   | 80    | 105,000   | 76    | 97,500  | 70           | 79,200  | 58  |
| 266  | 4800             | 3.39                            | 133,000   | 100   | 127,000   | 96    | 120,000   | 92    | 114,000   | 88    | 107,000   | 84           | 91,000  | 72  |
| 277  | 5000             | 3.67                            | 141,000   | 115   | 135,000   | 110   | 129,000   | 105   | 123,000   | 100   | 116,000   | 98           | 102,000   | 86  |
| 290  | 5250             | 4.05                            |   |       | 144,000   | 130   | 139,000   | 125   | 133,000   | 120   | 127,000   | 115          | 114,000   | 105   |
| 304  | 5500             | 4.45                            |   |       | 154,000   | 150   | 148,000   | 145   | 143,000   | 145   | 137,000   | 140          | 126,000   | 130   |
| 318  | 5750             | 4.85                            |   |       | 163,000   | 175   | 158,000   | 170   | 153,000   | 165   | 147,000   | 160          | 136,000   | 150   |
| 332  | 6000             | 5.29                            |   |       |   |       | 168,000   | 195   | 163,000   | 190   | 157,000   | 185          | 147,000   | 175   |
| 346  | 6250             | 5.75                            |   |       |   |       | 177,000   | 225   | 172,000   | 220   | 168,000   | 215          | 158,000   | 205   |
| 359  | 6500             | 6.20                            |   |       |   |       |   |       | 182,000   | 250   | 177,000   | 240          | 168,000   | 235   |
| 373  | 6750             | 6.70                            |   |       |   |       |   |       | 191,000   | 280   | 187,000   | 275          | 177,000   | 265   |
| 387  | 7000             | 7.20                            |   |       |   |       |   |       |   |       | 197,000   | 310          | 188,000   | 300   |
| 414  | 7500             | 8.26                            |   |       |   |       |   |       |   |       |   |              | 207,000   | 375   |
| 442  | 8000             | 9.4                             |   |       |   |       |   |       |   |       |   |              | 226,000   | 470   |
| 470  | 8500             | 10.6                            |   |       |   |       |   |       |   |       |   |              |   | 237,000   |
| 497  | 9000             | 11.9                            |   |       |   |       |   |       |   |       |   |              |   | 257,000   |
|  |                  |                                 |   |       |   |       |   |       |   |       |   |              |   | 675   |
| R.P.M.   | Tip Speed F.P.M. | S.N.D. in inches                | Static Pressure 3 1/2" Water 2.02 ozs. per sq. inch |       | Static Pressure 4" Water 2.31 ozs. per sq. inch     |       | Static Pressure 5" Water 2.89 ozs. per sq. inch     |       | Static Pressure 6" Water 3.47 ozs. per sq. inch     |       | Static Pressure 7" Water 4.05 ozs. per sq. inch   |              | Static Pressure 8" Water 4.63 ozs. per sq. inch     | Static Pressure 9" Water 5.2 ozs. per sq. inch    |
| 290  | 5250             | 4.05                            | 80,000  | 78    |   |       |   |       |   |       |   |              |   |   |
| 304  | 5500             | 4.45                            | 97,800  | 105   | 72,600  | 84    |   |       |   |       |   |              |   |   |
| 318  | 5750             | 4.85                            | 112,000   | 125   | 95,700  | 110   |   |       |   |       |   |              |   |   |
| 332  | 6000             | 5.29                            | 125,000   | 155   | 111,000   | 140   |   |       |   |       |   |              |   |   |
| 346  | 6250             | 5.75                            | 137,000   | 180   | 125,000   | 165   | 94,000  | 130   |   |       |   |              |   |   |
| 359  | 6500             | 6.20                            | 148,000   | 210   | 137,000   | 195   | 112,000   | 165   |   |       |   |              |   |   |
| 373  | 6750             | 6.70                            | 160,000   | 245   | 150,000   | 230   | 127,000   | 195   | 95,500  | 150   |   |              |   |   |
| 387  | 7000             | 7.20                            | 170,000   | 280   | 161,000   | 265   | 140,000   | 235   | 114,000   | 190   |   |              |   |   |
| 414  | 7500             | 8.26                            | 191,000   | 355   | 183,000   | 345   | 165,000   | 315   | 144,000   | 280   | 120,000   | 235          |   |   |
| 442  | 8000             | 9.40                            | 211,000   | 440   | 204,000   | 430   | 187,000   | 405   | 170,000   | 370   | 151,000   | 330          | 126,000   | 280   |
| 470  | 8500             | 10.60                           | 230,000   | 540   | 223,000   | 530   | 209,000   | 500   | 193,000   | 475   | 176,000   | 440          | 158,000   | 390   |
| 497  | 9000             | 11.90                           | 250,000   | 660   | 242,000   | 640   | 229,000   | 615   | 216,000   | 585   | 201,000   | 550          | 185,000   | 510   |
| 525  | 9500             | 13.28                           | 269,000   | 790   | 262,000   | 770   | 250,000   | 740   | 237,000   | 710   | 224,000   | 680          | 209,000   | 640   |
| 552  | 10000            | 14.7                            |   |       | 281,000   | 915   | 269,000   | 880   | 257,000   | 845   | 245,000   | 820          | 232,000   | 785   |
|  |                  |                                 |   |       |   |       |   |       |   |       |   |              |   | 219,000   |
|  |                  |                                 |   |       |   |       |   |       |   |       |   |              |   | 740   |

Double Inlet

## No. 15 Multivane Fan — Design 2

Single Width

When Discharging Air at 65 F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M. H. P. Static Pressure 1" Water .0722 oza. per sq. inch | Volume C.F.M. H. P. Static Pressure 1 1/4" Water .145 oza. per sq. inch | Volume C.F.M. H. P. Static Pressure 1 1/2" Water .217 oza. per sq. inch | Volume C.F.M. H. P. Static Pressure 1 3/4" Water .289 oza. per sq. inch | Volume C.F.M. H. P. Static Pressure 2" Water .361 oza. per sq. inch | Volume C.F.M. H. P. Static Pressure 2 1/4" Water .434 oza. per sq. inch | Volume C.F.M. H. P. Static Pressure 2 1/2" Water .508 oza. per sq. inch |
|--------|------------------|------------------|--|---|---|---|---|---|---|
| 52     | 1000             | 0 1/4            | 18,500 0 65  |   |   |   |   |   |   |
| 62     | 1200             | 0 2/4            | 31,400 1 55  |   |   |   |   |   |   |
| 72     | 1400             | 0 2/8            | 44,600 2 70  | 24,800 1 7  |   |   |   |   |   |
| 82     | 1600             | 0 3/8            | 50,800 4 25  | 38,800 3 4  |   |   |   |   |   |
| 92     | 1800             | 0 4/8            | 59,900 6 3   | 49,800 5 4  | 37,400 4 2  |   |   |   |   |
| 102    | 2000             | 0 5/8            |  | 59,700 7 9  | 49,900 6 8  | 36,900 5 1  |   |   |   |
| 113    | 2200             | 0 7/4            |  | 69,000 11 0   | 60,700 9 9  | 51,200 8 5  | 37,600 6 4  |   |   |
| 123    | 2400             | 0 8/4            |  | 78,000 11 5   | 70,700 13 5   | 62,700 12 0   | 53,500 10 5   | 40,900 8 1  |   |
| 133    | 2600             | 0 9/4            |  | 87,000 19   | 80,100 18   | 73,000 16 5   | 65,600 15   | 56,600 13 0   | 44,100 10 5   |
| 143    | 2800             | 1 1/5            |  |   | 89,400 23   | 83,100 21 5   | 76,200 20   | 69,000 18 5   | 60,500 16 5   |
| 153    | 3000             | 1 3/2            |  |   | 98,500 29   | 92,500 27   | 86,300 26   | 80,000 24 5   | 73,100 23   |
| 163    | 3200             | 1 5/4            |  |   | 107,000 36  | 102,000 34  | 96,100 33   | 90,800 31   | 84,500 29   |
| 174    | 3400             | 1 7/0            |  |   |   | 111,000 42  | 106,000 40  | 100,000 38  | 94,600 37   |
| 184    | 3600             | 1 9/4            |  |   |   | 120,000 50  | 114,000 48  | 110,000 47  | 105,000 45  |
| 194    | 3800             | 2 1/3            |  |   |   |   | 124,000 58  | 119,000 56  | 114,000 54  |
| 204    | 4000             | 2 3/5            |  |   |   |   | 133,000 68  | 128,000 66  | 124,000 64  |
| 215    | 4200             | 2 5/0            |  |   |   |   |   | 137,000 78  | 133,000 76  |
| 225    | 4400             | 2 8/4            |  |   |   |   |   |   | 142,000 90  |
| 235    | 4600             | 3 1/4            |  |   |   |   |   |   | 151,000 105   |
| 245    | 4800             | 3 3/0            |  |   |   |   |   |   | 160,000 120   |
| 143    | 2800             | 1 1/5            | 49,500 13 5  |   |   |   |   |   |   |
| 153    | 3000             | 1 3/2            | 65,400 20  |   |   |   |   |   |   |
| 163    | 3200             | 1 5/4            | 77,600 27  | 61,900 22   |   |   |   |   |   |
| 174    | 3400             | 1 7/0            | 89,000 35  | 76,200 30   | 57,500 23   |   |   |   |   |
| 184    | 3600             | 1 9/4            | 99,500 41  | 88,400 39   | 74,900 34   |   |   |   |   |
| 194    | 3800             | 2 1/3            | 110,000 52   | 99,800 49   | 88,400 44   | 74,500 37   |   |   |   |
| 204    | 4000             | 2 3/5            | 119,000 64   | 110,000 60  | 99,700 51   | 88,400 48   | 73,800 41   |   |   |
| 215    | 4200             | 2 5/0            | 129,000 74   | 120,000 70  | 111,000 66  | 100,000 60  | 89,400 54   |   |   |
| 225    | 4400             | 2 8/4            | 138,000 86   | 130,000 82  | 122,000 78  | 112,000 74  | 102,000 68  | 75,100 50   |   |
| 235    | 4600             | 3 1/4            | 147,000 100  | 140,000 96  | 132,000 92  | 123,000 88  | 114,000 82  | 92,800 68   |   |
| 245    | 4800             | 3 3/0            | 156,000 115  | 149,000 110   | 141,000 110   | 133,000 105   | 125,000 98  | 107,000 84  | 80,400 70   |
| 255    | 5000             | 3 6/7            | 165,000 135  | 158,000 130   | 151,000 125   | 144,000 120   | 136,000 115   | 120,000 100   | 99,100 86   |
| 268    | 5250             | 4 0/5            |  | 169,000 150   | 162,000 145   | 156,000 140   | 149,000 135   | 134,000 125   | 117,000 110   |
| 281    | 5500             | 4 4/5            |  | 180,000 180   | 174,000 170   | 168,000 170   | 161,000 160   | 147,000 150   | 132,000 135   |
| 294    | 5750             | 4 8/5            |  | 191,000 205   | 185,000 200   | 179,000 195   | 173,000 190   | 160,000 175   | 146,000 165   |
| 306    | 6000             | 5 2/9            |  |   | 197,000 230   | 191,000 225   | 185,000 220   | 173,000 205   | 160,000 195   |
| 319    | 6250             | 5 7/5            |  |   | 207,000 265   | 202,000 255   | 197,000 250   | 185,000 240   | 173,000 230   |
| 332    | 6500             | 6 2/0            |  |   |   | 213,000 290   | 207,000 285   | 197,000 275   | 186,000 260   |
| 345    | 6750             | 6 7/0            |  |   |   | 224,000 330   | 219,000 325   | 208,000 310   | 198,000 300   |
| 357    | 7000             | 7 2/0            |  |   |   |   | 230,000 365   | 220,000 350   | 210,000 340   |
| 382    | 7500             | 8 2/6            |  |   |   |   |   | 212,000 440   | 234,000 130   |
| 408    | 8000             | 9 4              |  |   |   |   |   | 265,000 550   | 256,000 535   |
| 433    | 8500             | 10 6             |  |   |   |   |   |   | 278,000 650   |
| 459    | 9000             | 11 9             |  |   |   |   |   |   | 310,000 790   |
| 268    | 5250             | 4 0/5            | 94,000 90  |   |   |   |   |   |   |
| 281    | 5500             | 4 4/5            | 115,000 120  | 85,200 98   |   |   |   |   |   |
| 294    | 5750             | 4 8/5            | 131,000 150  | 112,000 130   |   |   |   |   |   |
| 306    | 6000             | 5 2/9            | 146,000 180  | 131,000 160   |   |   |   |   |   |
| 319    | 6250             | 5 7/5            | 160,000 215  | 146,000 195   | 110,000 150   |   |   |   |   |
| 332    | 6500             | 6 2/0            | 174,000 250  | 161,000 230   | 131,000 190   |   |   |   |   |
| 345    | 6750             | 6 7/0            | 187,000 285  | 175,000 270   | 149,000 230   | 112,000 180   |   |   |   |
| 357    | 7000             | 7 2/0            | 199,000 325  | 189,000 310   | 165,000 275   | 134,000 225   |   |   |   |
| 382    | 7500             | 8 2/6            | 224,000 415  | 215,000 405   | 193,000 365   | 169,000 325   | 140,000 275   |   |   |
| 408    | 8000             | 9 4              | 247,000 515  | 238,000 505   | 220,000 475   | 200,000 435   | 177,000 390   | 148,000 330   |   |
| 433    | 8500             | 10 6             | 270,000 635  | 262,000 620   | 245,000 585   | 227,000 555   | 207,000 515   | 185,000 460   | 158,000 395   |
| 459    | 9000             | 11 9             | 293,000 775  | 284,000 750   | 269,000 720   | 253,000 690   | 236,000 645   | 217,000 600   | 196,000 545   |
| 485    | 9500             | 13 2/8           | 315,000 925  | 307,000 900   | 293,000 870   | 278,000 830   | 262,000 795   | 246,000 750   | 227,000 700   |
| 510    | 10000            | 14 7             |  | 330,000 1070  | 316,000 1030  | 302,000 990   | 288,000 965   | 272,000 920   | 257,000 870   |

Double Inlet

## No. 16 Multivane Fan—Design 2

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                   | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                   | H. P. |
|--------|------------------|------------------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|
|        |                  |                  | Static Pressure 1" Water .0722 ozs. per sq. inch    |       | Static Pressure 1" Water .145 ozs. per sq. inch     |       | Static Pressure 1 1/2" Water .217 ozs. per sq. inch |       | Static Pressure 1 1/2" Water .289 ozs. per sq. inch |       | Static Pressure 2" Water .361 ozs. per sq. inch |       | Static Pressure 2 1/2" Water .434 ozs. per sq. inch |       | Static Pressure 3" Water .506 ozs. per sq. inch |       |
| 48     | 1000             | 0.147            | 21,400  | 0.75  |   |       |   |       |   |       |   |       |   |       |   |       |
| 57     | 1200             | 0.212            | 36,200  | 1.75  |   |       |   |       |   |       |   |       |   |       |   |       |
| 66     | 1400             | 0.288            | 48,000  | 3.1   | 28,600  | 1.95  |   |       |   |       |   |       |   |       |   |       |
| 76     | 1600             | 0.376            | 58,800  | 4.9   | 41,900  | 3.9   |   |       |   |       |   |       |   |       |   |       |
| 85     | 1800             | 0.476            | 69,100  | 7.3   | 57,500  | 6.3   | 43,200  | 4.85  |   |       |   |       |   |       |   |       |
| 95     | 2000             | 0.588            |   |       | 69,000  | 9.1   | 57,600  | 7.9   | 42,700  | 5.9   |   |       |   |       |   |       |
| 104    | 2200             | 0.711            |   |       | 79,800  | 12.5  | 70,200  | 11.5  | 59,100  | 9.8   | 43,500  | 7.4   |   |       |   |       |
| 113    | 2400             | 0.847            |   |       | 90,000  | 17    | 81,700  | 15.5  | 72,500  | 14    | 61,800  | 12.0  | 47,300  | 9.4   |   |       |
| 123    | 2600             | 0.994            |   |       | 101,000   | 22    | 92,500  | 20.5  | 84,500  | 19    | 75,800  | 17.5  | 65,500  | 15.0  | 51,300  | 12    |
| 133    | 2800             | 1.15             |   |       |   |       | 103,000   | 26    | 96,100  | 25    | 88,100  | 23.5  | 79,700  | 21.5  | 70,000  | 19    |
| 142    | 3000             | 1.32             |   |       |   |       | 114,000   | 33    | 107,000   | 32    | 99,800  | 30    | 92,600  | 28    | 84,500  | 26    |
| 152    | 3200             | 1.51             |   |       |   |       | 124,000   | 41    | 118,000   | 39    | 111,000   | 38    | 105,000   | 36    | 97,800  | 34    |
| 161    | 3400             | 1.70             |   |       |   |       |   |       | 128,000   | 48    | 122,000   | 46    | 116,000   | 44    | 109,000   | 42    |
| 170    | 3600             | 1.91             |   |       |   |       |   |       | 138,000   | 58    | 132,000   | 56    | 127,000   | 54    | 121,000   | 52    |
| 180    | 3800             | 2.13             |   |       |   |       |   |       |   |       | 145,000   | 68    | 137,000   | 64    | 132,000   | 64    |
| 189    | 4000             | 2.35             |   |       |   |       |   |       |   |       | 153,000   | 80    | 148,000   | 78    | 143,000   | 74    |
| 199    | 4200             | 2.59             |   |       |   |       |   |       |   |       |   |       | 158,000   | 90    | 153,000   | 88    |
| 208    | 4400             | 2.84             |   |       |   |       |   |       |   |       |   |       |   |       | 164,000   | 105   |
| 218    | 4600             | 3.11             |   |       |   |       |   |       |   |       |   |       |   |       | 171,000   | 120   |
| 227    | 4800             | 3.39             |   |       |   |       |   |       |   |       |   |       |   |       | 185,000   | 140   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 ozs. per sq. inch     |       | Static Pressure 1 1/4" Water .723 ozs. per sq. inch |       | Static Pressure 1 1/2" Water .878 ozs. per sq. inch |       | Static Pressure 1 3/4" Water 1.01 ozs. per sq. inch |       | Static Pressure 2" Water 1.16 ozs. per sq. inch |       | Static Pressure 2 1/2" Water 1.45 ozs. per sq. inch |       | Static Pressure 3" Water 1.73 ozs. per sq. inch |       |
| 133    | 2800             | 1.15             | 57,300  | 15.5  |   |       |   |       |   |       |   |       |   |       |   |       |
| 142    | 3000             | 1.32             | 75,500  | 23.5  |   |       |   |       |   |       |   |       |   |       |   |       |
| 152    | 3200             | 1.51             | 89,700  | 31    | 71,500  | 25    |   |       |   |       |   |       |   |       |   |       |
| 161    | 3400             | 1.70             | 103,000   | 40    | 88,100  | 35    | 66,500  | 27    |   |       |   |       |   |       |   |       |
| 170    | 3600             | 1.91             | 115,000   | 50    | 102,000   | 45    | 86,500  | 39    |   |       |   |       |   |       |   |       |
| 180    | 3800             | 2.13             | 127,000   | 60    | 115,000   | 56    | 102,000   | 50    | 86,100  | 43    |   |       |   |       |   |       |
| 189    | 4000             | 2.35             | 138,000   | 72    | 127,000   | 68    | 115,000   | 62    | 102,000   | 56    | 85,300  | 47    |   |       |   |       |
| 199    | 4200             | 2.59             | 149,000   | 86    | 139,000   | 82    | 128,000   | 76    | 116,000   | 70    | 103,000   | 62    |   |       |   |       |
| 208    | 4400             | 2.84             | 160,000   | 100   | 150,000   | 96    | 141,000   | 92    | 130,000   | 86    | 118,000   | 78    | 87,000  | 58    |   |       |
| 218    | 4600             | 3.11             | 170,000   | 115   | 161,000   | 110   | 152,000   | 105   | 142,000   | 100   | 132,000   | 96    | 107,000   | 78    |   |       |
| 227    | 4800             | 3.39             | 180,000   | 135   | 172,000   | 130   | 163,000   | 125   | 154,000   | 120   | 145,000   | 115   | 123,000   | 98    | 93,000  | 80    |
| 237    | 5000             | 3.67             | 191,000   | 155   | 182,000   | 150   | 174,000   | 145   | 166,000   | 140   | 157,000   | 135   | 138,000   | 115   | 115,000   | 100   |
| 248    | 5250             | 4.05             |   |       | 195,000   | 175   | 188,000   | 170   | 180,000   | 165   | 172,000   | 160   | 155,000   | 145   | 135,000   | 130   |
| 260    | 5500             | 4.45             |   |       | 208,000   | 205   | 201,000   | 200   | 194,000   | 195   | 186,000   | 185   | 170,000   | 175   | 153,000   | 160   |
| 272    | 5750             | 4.85             |   |       | 221,000   | 235   | 214,000   | 230   | 208,000   | 225   | 200,000   | 220   | 185,000   | 205   | 169,000   | 190   |
| 284    | 6000             | 5.29             |   |       |   |       | 228,000   | 265   | 220,000   | 260   | 214,000   | 250   | 200,000   | 240   | 185,000   | 225   |
| 296    | 6250             | 5.75             |   |       |   |       | 240,000   | 305   | 233,000   | 300   | 227,000   | 290   | 214,000   | 280   | 200,000   | 265   |
| 308    | 6500             | 6.20             |   |       |   |       |   |       | 246,000   | 340   | 239,000   | 330   | 227,000   | 315   | 215,000   | 300   |
| 319    | 6750             | 6.70             |   |       |   |       |   |       | 259,000   | 380   | 253,000   | 375   | 240,000   | 360   | 229,000   | 345   |
| 331    | 7000             | 7.20             |   |       |   |       |   |       |   |       | 266,000   | 425   | 255,000   | 410   | 243,000   | 395   |
| 355    | 7500             | 8.26             |   |       |   |       |   |       |   |       |   |       | 280,000   | 510   | 270,000   | 500   |
| 378    | 8000             | 9.40             |   |       |   |       |   |       |   |       |   |       | 306,000   | 635   | 296,000   | 620   |
| 402    | 8500             | 10.6             |   |       |   |       |   |       |   |       |   |       |   |       | 322,000   | 750   |
| 426    | 9000             | 11.9             |   |       |   |       |   |       |   |       |   |       |   |       | 348,000   | 915   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 3 1/2" Water 2.62 ozs. per sq. inch |       | Static Pressure 4" Water 2.31 ozs. per sq. inch     |       | Static Pressure 5" Water 2.89 ozs. per sq. inch     |       | Static Pressure 6" Water 3.47 ozs. per sq. inch     |       | Static Pressure 7" Water 4.05 ozs. per sq. inch |       | Static Pressure 8" Water 4.63 ozs. per sq. inch     |       | Static Pressure 9" Water 5.2 ozs. per sq. inch  |       |
| 248    | 5250             | 4.05             | 109,000   | 105   |   |       |   |       |   |       |   |       |   |       |   |       |
| 260    | 5500             | 4.45             | 133,000   | 140   | 98,500  | 115   |   |       |   |       |   |       |   |       |   |       |
| 272    | 5750             | 4.85             | 151,000   | 170   | 130,000   | 150   |   |       |   |       |   |       |   |       |   |       |
| 284    | 6000             | 5.29             | 169,000   | 205   | 151,000   | 185   |   |       |   |       |   |       |   |       |   |       |
| 296    | 6250             | 5.75             | 185,000   | 245   | 169,000   | 225   | 127,000   | 175   |   |       |   |       |   |       |   |       |
| 308    | 6500             | 6.20             | 201,000   | 285   | 186,000   | 265   | 151,000   | 220   |   |       |   |       |   |       |   |       |
| 319    | 6750             | 6.70             | 216,000   | 330   | 203,000   | 310   | 172,000   | 265   | 129,000   | 205   |   |       |   |       |   |       |
| 331    | 7000             | 7.20             | 230,000   | 380   | 218,000   | 360   | 190,000   | 320   | 155,000   | 260   |   |       |   |       |   |       |
| 355    | 7500             | 8.26             | 258,000   | 480   | 248,000   | 465   | 223,000   | 425   | 195,000   | 375   | 162,000   | 320   |   |       |   |       |
| 378    | 8000             | 9.40             | 286,000   | 600   | 276,000   | 585   | 254,000   | 545   | 231,000   | 505   | 204,000   | 450   | 171,000   | 380   |   |       |
| 402    | 8500             | 10.6             | 312,000   | 735   | 302,000   | 715   | 283,000   | 680   | 262,000   | 640   | 239,000   | 595   | 214,000   | 530   | 182,000   | 455   |
| 426    | 9000             | 11.9             | 339,000   | 895   | 329,000   | 870   | 311,000   | 830   | 292,000   | 795   | 273,000   | 750   | 251,000   | 695   | 225,000   | 630   |
| 449    | 9500             | 13.28            | 364,000   | 1070  | 355,000   | 1040  | 338,000   | 1010  | 321,000   | 960   | 303,000   | 920   | 281,000   | 870   | 262,000   | 810   |
| 473    | 10000            | 14.70            |   |       | 382,000   | 1240  | 365,000   | 1190  | 349,000   | 1150  | 332,000   | 1110  | 315,000   | 1060  | 297,000   | 1010  |

Double Inlet

## No. 17 Multivane Fan—Design 2

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M. H. P. Static Pressure 1/2" Water .0722 oza. per sq. inch | Volume C.F.M. H. P. Static Pressure 1/2" Water .145 oza. per sq. inch | Volume C.F.M. H. P. Static Pressure 3/4" Water .217 oza. per sq. inch | Volume C.F.M. H. P. Static Pressure 1" Water .289 oza. per sq. inch | Volume C.F.M. H. P. Static Pressure 1 1/4" Water .361 oza. per sq. inch | Volume C.F.M. H. P. Static Pressure 1 1/2" Water .434 oza. per sq. inch | Volume C.F.M. H. P. Static Pressure 1 3/4" Water .506 oza. per sq. inch |
|--------|------------------|------------------|--|---|---|---|---|---|---|
| 44     | 1000             | 0 147            | 24,700 0 86  |   |   |   |   |   |   |
| 53     | 1200             | 0 212            | 41,700 2 05  |   |   |   |   |   |   |
| 62     | 1400             | 0 288            | 55,300 3 6   | 32,900 2 25   |   |   |   |   |   |
| 71     | 1600             | 0 376            | 67,600 5 6   | 51,600 4 5  |   |   |   |   |   |
| 80     | 1800             | 0 476            | 79,600 8 1   | 66,200 7 2  | 49,800 5 6  |   |   |   |   |
| 89     | 2000             | 0 588            |  | 79,500 10 5   | 66,400 9 0  | 49,100 6 8  |   |   |   |
| 98     | 2200             | 0 711            |  | 91,700 14 5   | 80,700 13 0   | 68,100 11 5   | 50,000 8 5  |   |   |
| 106    | 2400             | 0 847            |  | 104,000 19 5  | 94,000 18 0   | 83,500 16 5   | 71,000 14   | 54,400 11 0   |   |
| 115    | 2600             | 0 994            |  | 116,000 25  | 106,000 23 5  | 97,200 22   | 87,100 20   | 75,300 17 5   | 59,000 14 0   |
| 124    | 2800             | 1 15             |  |   | 119,000 30  | 111,000 29  | 101,000 27  | 91,800 24 5   | 80,400 21 5   |
| 133    | 3000             | 1 32             |  |   | 131,000 38  | 123,000 36  | 115,000 34  | 106,000 32  | 97,300 30   |
| 142    | 3200             | 1 51             |  |   | 142,000 47  | 136,000 45  | 128,000 43  | 121,000 41  | 112,000 39  |
| 151    | 3400             | 1 70             |  |   |   | 148,000 56  | 141,000 54  | 133,000 52  | 126,000 49  |
| 159    | 3600             | 1 91             |  |   |   | 159,000 66  | 152,000 64  | 146,000 62  | 139,000 60  |
| 168    | 3800             | 2 13             |  |   |   |   | 164,000 78  | 158,000 74  | 152,000 72  |
| 177    | 4000             | 2 35             |  |   |   |   | 176,000 92  | 170,000 88  | 165,000 86  |
| 186    | 4200             | 2 59             |  |   |   |   |   | 182,000 105   | 177,000 100   |
| 195    | 4400             | 2 84             |  |   |   |   |   |   | 189,000 120   |
| 204    | 4600             | 3 11             |  |   |   |   |   |   | 200,000 140   |
| 213    | 4800             | 3 39             |  |   |   |   |   |   | 213,000 160   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 oza. per sq. inch                        | Static Pressure 1 1/4" Water .723 oza. per sq. inch                   | Static Pressure 1 1/2" Water .878 oza. per sq. inch                   | Static Pressure 1 3/4" Water 1.01 oza. per sq. inch                 | Static Pressure 2" Water 1.16 oza. per sq. inch                         | Static Pressure 2 1/2" Water 1.45 oza. per sq. inch                     | Static Pressure 3" Water 1.73 oza. per sq. inch                         |
| 124    | 2800             | 1 15             | 65,900 18  |   |   |   |   |   |   |
| 133    | 3000             | 1 32             | 86,900 27  |   |   |   |   |   |   |
| 142    | 3200             | 1 51             | 103,000 36   | 82,300 29   |   |   |   |   |   |
| 151    | 3400             | 1 70             | 118,000 46   | 101,000 40  | 76,500 31   |   |   |   |   |
| 159    | 3600             | 1 91             | 132,000 58   | 118,000 52  | 99,500 45   |   |   |   |   |
| 168    | 3800             | 2 13             | 146,000 70   | 133,000 64  | 118,000 58  | 99,000 50   |   |   |   |
| 177    | 4000             | 2 35             | 158,000 84   | 146,000 78  | 133,000 72  | 118,000 64  | 98,000 51   |   |   |
| 186    | 4200             | 2 59             | 171,000 100  | 160,000 94  | 147,000 88  | 134,000 80  | 119,000 72  |   |   |
| 195    | 4400             | 2 84             | 183,000 115  | 173,000 110   | 162,000 105   | 149,000 98  | 136,000 90  | 100,000 68  |   |
| 204    | 4600             | 3 11             | 196,000 135  | 186,000 130   | 175,000 125   | 164,000 115   | 152,000 110   | 123,000 90  |   |
| 213    | 4800             | 3 39             | 208,000 155  | 197,000 150   | 188,000 145   | 177,000 135   | 167,000 130   | 142,000 110   | 107,000 92  |
| 221    | 5000             | 3 67             | 220,000 180  | 210,000 170   | 200,000 165   | 191,000 160   | 181,000 150   | 159,000 135   | 132,000 115   |
| 232    | 5250             | 4 05             |  | 225,000 200   | 216,000 195   | 207,000 190   | 198,000 185   | 178,000 165   | 155,000 150   |
| 244    | 5500             | 4 45             |  | 240,000 235   | 231,000 230   | 223,000 225   | 214,000 215   | 196,000 200   | 176,000 180   |
| 255    | 5750             | 4 85             |  | 254,000 270   | 247,000 265   | 239,000 260   | 230,000 250   | 212,000 235   | 195,000 220   |
| 266    | 6000             | 5 29             |  |   | 262,000 305   | 254,000 295   | 245,000 290   | 230,000 275   | 213,000 260   |
| 277    | 6250             | 5 75             |  |   | 276,000 350   | 268,000 340   | 261,000 335   | 246,000 320   | 230,000 305   |
| 288    | 6500             | 6 20             |  |   |   | 284,000 390   | 275,000 380   | 261,000 365   | 248,000 350   |
| 299    | 6750             | 6 70             |  |   |   | 298,000 440   | 291,000 430   | 276,000 415   | 264,000 400   |
| 310    | 7000             | 7 20             |  |   |   |   | 306,000 490   | 293,000 470   | 280,000 450   |
| 332    | 7500             | 8 26             |  |   |   |   |   | 322,000 590   | 310,000 575   |
| 354    | 8000             | 9 40             |  |   |   |   |   | 352,000 730   | 341,000 710   |
| 376    | 8500             | 10 6             |  |   |   |   |   |   | 370,000 865   |
| 398    | 9000             | 11 9             |  |   |   |   |   |   | 400,000 1050  |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 3 1/2" Water 2.02 oza. per sq. inch                    | Static Pressure 4" Water 2.31 oza. per sq. inch                       | Static Pressure 5" Water 2.89 oza. per sq. inch                       | Static Pressure 6" Water 3.47 oza. per sq. inch                     | Static Pressure 7" Water 4.05 oza. per sq. inch                         | Static Pressure 8" Water 4.63 oza. per sq. inch                         | Static Pressure 9" Water 5.2 oza. per sq. inch                          |
| 232    | 5250             | 4 05             | 125,000 120  |   |   |   |   |   |   |
| 244    | 5500             | 4 45             | 153,000 160  | 113,000 130   |   |   |   |   |   |
| 255    | 5750             | 4 85             | 174,000 195  | 149,000 170   |   |   |   |   |   |
| 266    | 6000             | 5 29             | 195,000 240  | 174,000 215   |   |   |   |   |   |
| 277    | 6250             | 5 75             | 213,000 285  | 195,000 260   | 147,000 200   |   |   |   |   |
| 288    | 6500             | 6 20             | 231,000 330  | 214,000 305   | 174,000 255   |   |   |   |   |
| 299    | 6750             | 6 70             | 249,000 380  | 233,000 360   | 198,000 305   | 149,000 235   |   |   |   |
| 310    | 7000             | 7 20             | 265,000 435  | 251,000 415   | 219,000 365   | 178,000 300   |   |   |   |
| 332    | 7500             | 8 26             | 297,000 550  | 286,000 535   | 257,000 485   | 224,000 435   | 187,000 365   |   |   |
| 354    | 8000             | 9 40             | 329,000 690  | 317,000 670   | 292,000 630   | 266,000 580   | 235,000 515   | 196,000 435   |   |
| 376    | 8500             | 10 60            | 359,000 845  | 348,000 825   | 325,000 780   | 302,000 740   | 275,000 685   | 246,000 610   | 210,000 525   |
| 398    | 9000             | 11 90            | 390,000 1030   | 378,000 1000  | 358,000 955   | 336,000 915   | 314,000 860   | 289,000 795   | 260,000 725   |
| 420    | 9500             | 13 28            | 419,000 1230   | 409,000 1200  | 389,000 1160  | 369,000 1110  | 349,000 1060  | 327,000 1000  | 302,000 930   |
| 443    | 10000            | 14 70            |  | 439,000 1420  | 420,000 1370  | 400,000 1320  | 382,000 1280  | 362,000 1220  | 342,000 1160  |

Double Inlet

## No. 18 Multivane Fan — Design 2

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M. H. P. Static Pressure 1/8" Water .0722 oza. per sq. inch | Volume C.F.M. H. P. Static Pressure 1/4" Water .145 oza. per sq. inch | Volume C.F.M. H. P. Static Pressure 3/8" Water .217 oza. per sq. inch | Volume C.F.M. H. P. Static Pressure 1/2" Water .289 oza. per sq. inch | Volume C.F.M. H. P. Static Pressure 5/8" Water .361 oza. per sq. inch | Volume C.F.M. H. P. Static Pressure 3/4" Water .434 oza. per sq. inch | Volume C.F.M. H. P. Static Pressure 7/8" Water .506 oza. per sq. inch |
|--------|------------------|------------------|--|---|---|---|---|---|---|
| 12     | 1000             | 0 147            | 28,000 0 97  |   |   |   |   |   |   |
| 50     | 1200             | 0 212            | 47,300 2 30  |   |   |   |   |   |   |
| 58     | 1100             | 0 288            | 62,700 4 05  | 37,200 2 55   |   |   |   |   |   |
| 66     | 1600             | 0 376            | 76,600 6 4   | 59,000 5 1  |   |   |   |   |   |
| 75     | 1800             | 0 476            | 90,200 9 5   | 75,000 8 2  | 56,400 6 3  |   |   |   |   |
| 83     | 2000             | 0 588            |  | 90,000 12 0   | 75,200 10 0   | 55,600 7 7  |   |   |   |
| 91     | 2200             | 0 711            |  | 101,000 16 5  | 91,500 15 0   | 77,100 13 0   | 56,600 9 6  |   |   |
| 100    | 2400             | 0 847            |  | 118,000 22  | 107,000 20 5  | 94,500 18 5   | 80,500 16 0   | 61,600 12 5   |   |
| 108    | 2600             | 0 994            |  | 131,000 29  | 121,000 27  | 110,000 25  | 98,000 22 5   | 85,400 20   | 66,900 16 0   |
| 116    | 2800             | 1 15             |  |   | 135,000 34  | 125,000 33  | 115,000 30  | 104,000 28  | 91,100 24 5   |
| 124    | 3000             | 1 32             |  |   | 148,000 43  | 139,000 41  | 130,000 39  | 121,000 37  | 115,000 34  |
| 133    | 3200             | 1 51             |  |   | 161,000 54  | 153,000 52  | 145,000 49  | 137,000 47  | 128,000 44  |
| 141    | 3400             | 1 70             |  |   |   | 167,000 62  | 159,000 60  | 151,000 58  | 143,000 56  |
| 149    | 3600             | 1 91             |  |   |   | 180,000 76  | 172,000 72  | 166,000 70  | 158,000 68  |
| 158    | 3800             | 2 13             |  |   |   |   | 186,000 88  | 179,000 84  | 172,000 82  |
| 166    | 4000             | 2 35             |  |   |   |   | 200,000 105   | 193,000 100   | 187,000 98  |
| 174    | 4200             | 2 59             |  |   |   |   |   | 206,000 120   | 200,000 115   |
| 182    | 4400             | 2 84             |  |   |   |   |   |   | 214,000 135   |
| 191    | 4600             | 3 11             |  |   |   |   |   |   | 227,000 155   |
| 199    | 4800             | 3 39             |  |   |   |   |   |   | 241,000 180   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 oza. per sq. inch                        | Static Pressure 1 1/4" Water .723 oza. per sq. inch                   | Static Pressure 1 1/2" Water .878 oza. per sq. inch                   | Static Pressure 1 3/4" Water 1.01 oza. per sq. inch                   | Static Pressure 2" Water 1.16 oza. per sq. inch                       | Static Pressure 2 1/4" Water 1.45 oza. per sq. inch                   | Static Pressure 3" Water 1.73 oza. per sq. inch                       |
| 116    | 2800             | 1 15             | 74,700 20 5  |   |   |   |   |   |   |
| 124    | 3000             | 1 32             | 98,500 30  |   |   |   |   |   |   |
| 133    | 3200             | 1 51             | 117,000 41   | 93,300 33   |   |   |   |   |   |
| 141    | 3400             | 1 70             | 134,000 52   | 115,000 46  | 86,700 35   |   |   |   |   |
| 149    | 3600             | 1 91             | 150,000 66   | 133,000 58  | 113,000 50  |   |   |   |   |
| 158    | 3800             | 2 13             | 165,000 80   | 150,000 74  | 133,000 66  | 112,000 56  |   |   |   |
| 166    | 4000             | 2 35             | 180,000 96   | 166,000 90  | 150,000 82  | 133,000 74  | 111,000 62  |   |   |
| 174    | 4200             | 2 59             | 194,000 110  | 181,000 105   | 167,000 100   | 151,000 92  | 135,000 82  |   |   |
| 182    | 4400             | 2 84             | 208,000 130  | 196,000 125   | 183,000 120   | 169,000 110   | 154,000 100   | 113,000 76  |   |
| 191    | 4600             | 3 11             | 222,000 155  | 210,000 145   | 198,000 140   | 185,000 135   | 172,000 125   | 140,000 105   |   |
| 199    | 4800             | 3 39             | 235,000 175  | 224,000 170   | 213,000 160   | 201,000 155   | 189,000 145   | 161,000 125   | 121,000 105   |
| 207    | 5000             | 3 67             | 249,000 200  | 238,000 195   | 227,000 185   | 217,000 180   | 205,000 175   | 180,000 155   | 149,000 135   |
| 218    | 5250             | 4 05             |  | 255,000 230   | 245,000 220   | 235,000 215   | 224,000 205   | 202,000 190   | 176,000 165   |
| 228    | 5500             | 4 45             |  | 272,000 270   | 262,000 260   | 253,000 250   | 243,000 245   | 222,000 225   | 199,000 205   |
| 239    | 5750             | 4 85             |  | 288,000 310   | 280,000 300   | 270,000 290   | 260,000 285   | 241,000 270   | 220,000 245   |
| 249    | 6000             | 5 29             |  |   | 297,000 345   | 287,000 335   | 278,000 330   | 260,000 310   | 242,000 295   |
| 259    | 6250             | 5 75             |  |   | 313,000 395   | 304,000 385   | 296,000 380   | 280,000 360   | 261,000 345   |
| 270    | 6500             | 6 20             |  |   |   | 321,000 440   | 312,000 430   | 296,000 410   | 281,000 395   |
| 280    | 6750             | 6 70             |  |   |   | 338,000 500   | 330,000 490   | 313,000 470   | 299,000 450   |
| 290    | 7000             | 7 20             |  |   |   |   | 347,000 555   | 332,000 530   | 317,000 515   |
| 311    | 7500             | 8 26             |  |   |   |   |   | 366,000 665   | 352,000 650   |
| 332    | 8000             | 9 40             |  |   |   |   |   | 400,000 830   | 386,000 805   |
| 352    | 8500             | 10 6             |  |   |   |   |   |   | 420,000 980   |
| 373    | 9000             | 11 9             |  |   |   |   |   |   | 454,000 1190  |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 3 1/2" Water 2.02 oza. per sq. inch                    | Static Pressure 4" Water 2.31 oza. per sq. inch                       | Static Pressure 5" Water 2.89 oza. per sq. inch                       | Static Pressure 6" Water 3.47 oza. per sq. inch                       | Static Pressure 7" Water 4.05 oza. per sq. inch                       | Static Pressure 8" Water 4.63 oza. per sq. inch                       | Static Pressure 9" Water 5.2 oza. per sq. inch                        |
| 218    | 5250             | 4 05             | 142,000 135  |   |   |   |   |   |   |
| 228    | 5500             | 4 45             | 173,000 180  | 128,000 150   |   |   |   |   |   |
| 239    | 5750             | 4 85             | 197,000 225  | 169,000 195   |   |   |   |   |   |
| 249    | 6000             | 5 29             | 221,000 270  | 197,000 245   |   |   |   |   |   |
| 259    | 6250             | 5 75             | 242,000 320  | 220,000 295   | 166,000 225   |   |   |   |   |
| 270    | 6500             | 6 20             | 262,000 375  | 243,000 350   | 197,000 290   |   |   |   |   |
| 280    | 6750             | 6 70             | 282,000 430  | 265,000 405   | 221,000 350   | 169,000 270   |   |   |   |
| 290    | 7000             | 7 20             | 300,000 495  | 285,000 470   | 248,000 415   | 202,000 340   |   |   |   |
| 311    | 7500             | 8 26             | 337,000 625  | 321,000 610   | 291,000 555   | 251,000 490   | 212,000 415   |   |   |
| 332    | 8000             | 9 40             | 373,000 780  | 360,000 760   | 331,000 715   | 301,000 655   | 266,000 585   | 222,000 495   |   |
| 352    | 8500             | 10 60            | 407,000 955  | 394,000 935   | 369,000 885   | 342,000 835   | 312,000 780   | 280,000 690   | 238,000 595   |
| 373    | 9000             | 11 90            | 442,000 1170   | 429,000 1130  | 405,000 1080  | 381,000 1010  | 356,000 975   | 327,000 905   | 295,000 820   |
| 391    | 9500             | 13 28            | 475,000 1390   | 464,000 1360  | 441,000 1310  | 419,000 1250  | 395,000 1200  | 370,000 1130  | 342,000 1060  |
| 415    | 10000            | 14 7             |  | 497,000 1610  | 476,000 1560  | 455,000 1490  | 434,000 1450  | 410,000 1380  | 387,000 1310  |



Double Inlet

**No. 20 Multivane Fan—Design 2**

Single Width

When Discharging Air at 65 F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed<br>F.P.M. | S.N.D.<br>in<br>inches | Volume<br>C.F.M.  | H. P. | Volume<br>C.F.M.   | H. P. | Volume<br>C.F.M.   | H. P. | Volume<br>C.F.M.   | H. P. | Volume<br>C.F.M.   | H. P. | Volume<br>C.F.M.   | H. P. | Volume<br>C.F.M.   | H. P. |
|--------|---------------------|------------------------|---|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|
|        |                     |                        | Static Pressure<br>1" Water<br>.0722 ozs. per<br>sq. inch |       | Static Pressure<br>1" Water<br>.145 ozs. per<br>sq. inch |       | Static Pressure<br>1" Water<br>.217 ozs. per<br>sq. inch |       | Static Pressure<br>1" Water<br>.289 ozs. per<br>sq. inch |       | Static Pressure<br>1" Water<br>.361 ozs. per<br>sq. inch |       | Static Pressure<br>1" Water<br>.434 ozs. per<br>sq. inch |       | Static Pressure<br>1" Water<br>.506 ozs. per<br>sq. inch |       |
| 37     | 1000                | 0 147                  | 35,300  | 1 25  |  |       |  |       |  |       |  |       |  |       |  |       |
| 41     | 1200                | 0 212                  | 59,600  | 2 9   |  |       |  |       |  |       |  |       |  |       |  |       |
| 52     | 1400                | 0 288                  | 79,100  | 5 1   | 47,000   | 3 2   |  |       |  |       |  |       |  |       |  |       |
| 59     | 1600                | 0 376                  | 96,800  | 8 1   | 74,000   | 6 4   |  |       |  |       |  |       |  |       |  |       |
| 66     | 1800                | 0 476                  | 114,000   | 12    | 94,800   | 10 5  | 71,300   | 8 0   |  |       |  |       |  |       |  |       |
| 74     | 2000                | 0 588                  |   |       | 114,000  | 15 0  | 95,000   | 13    | 70,300   | 9 8   |  |       |  |       |  |       |
| 81     | 2200                | 0 711                  |   |       | 131,000  | 20 5  | 116,000  | 19    | 97,500   | 16 0  | 71,600   | 12    |  |       |  |       |
| 89     | 2400                | 0 847                  |   |       | 148,000  | 28    | 135,000  | 26    | 119,000  | 23 5  | 102,000  | 20    | 77,900   | 15 5  |  |       |
| 96     | 2600                | 0 994                  |   |       | 166,000  | 36    | 152,000  | 34    | 139,000  | 32    | 125,000  | 29    | 108,000  | 25    | 84,500   | 20    |
| 103    | 2800                | 1 15                   |   |       |  |       | 170,000  | 44    | 158,000  | 41    | 145,000  | 39    | 131,000  | 35    | 115,000  | 31    |
| 111    | 3000                | 1 32                   |   |       |  |       | 187,000  | 54    | 176,000  | 52    | 161,000  | 49    | 152,000  | 46    | 139,000  | 43    |
| 118    | 3200                | 1 51                   |   |       |  |       | 201,000  | 68    | 194,000  | 64    | 184,000  | 62    | 173,000  | 60    | 161,000  | 56    |
| 125    | 3400                | 1 70                   |   |       |  |       |  |       | 211,000  | 80    | 201,000  | 76    | 191,000  | 74    | 180,000  | 70    |
| 133    | 3600                | 1 91                   |   |       |  |       |  |       | 228,000  | 96    | 218,000  | 92    | 209,000  | 90    | 199,000  | 86    |
| 140    | 3800                | 2 13                   |   |       |  |       |  |       |  |       | 236,000  | 110   | 226,000  | 105   | 218,000  | 105   |
| 148    | 4000                | 2 35                   |   |       |  |       |  |       |  |       | 253,000  | 130   | 244,000  | 125   | 236,000  | 125   |
| 155    | 4200                | 2 59                   |   |       |  |       |  |       |  |       |  |       | 261,000  | 150   | 253,000  | 145   |
| 162    | 4400                | 2 84                   |   |       |  |       |  |       |  |       |  |       |  |       | 271,000  | 170   |
| 170    | 4600                | 3 11                   |   |       |  |       |  |       |  |       |  |       |  |       | 287,000  | 195   |
| 177    | 4800                | 3 39                   |   |       |  |       |  |       |  |       |  |       |  |       | 304,000  | 230   |

| R.P.M. | Tip Speed<br>F.P.M. | S.N.D.<br>in<br>inches | Static Pressure<br>1" Water<br>.578 ozs. per<br>sq. inch | Static Pressure<br>1" Water<br>.723 ozs. per<br>sq. inch | Static Pressure<br>1" Water<br>.878 ozs. per<br>sq. inch | Static Pressure<br>1" Water<br>1.01 ozs. per<br>sq. inch | Static Pressure<br>1" Water<br>1.16 ozs. per<br>sq. inch | Static Pressure<br>1" Water<br>1.31 ozs. per<br>sq. inch | Static Pressure<br>1" Water<br>1.45 ozs. per<br>sq. inch | Static Pressure<br>1" Water<br>1.73 ozs. per<br>sq. inch |
|--------|---------------------|------------------------|--|--|--|--|--|--|--|--|
| 103    | 2800                | 1 15                   | 91,400   | 26   |  |  |  |  |  |  |
| 111    | 3000                | 1 32                   | 124,000  | 38   |  |  |  |  |  |  |
| 118    | 3200                | 1 51                   | 148,000  | 52   | 118,000  | 42   |  |  |  |  |
| 125    | 3400                | 1 70                   | 170,000  | 66   | 145,000  | 58   | 110,000  | 44   |  |  |
| 133    | 3600                | 1 91                   | 189,000  | 82   | 168,000  | 74   | 113,000  | 61   |  |  |
| 140    | 3800                | 2 13                   | 209,000  | 100  | 190,000  | 92   | 168,000  | 84   | 142,000  | 72   |
| 148    | 4000                | 2 35                   | 227,000  | 120  | 209,000  | 115  | 190,000  | 105  | 168,000  | 92   |
| 155    | 4200                | 2 59                   | 245,000  | 140  | 229,000  | 135  | 211,000  | 125  | 191,000  | 115  |
| 162    | 4400                | 2 84                   | 263,000  | 165  | 248,000  | 160  | 232,000  | 150  | 214,000  | 140  |
| 170    | 4600                | 3 11                   | 280,000  | 195  | 266,000  | 185  | 251,000  | 175  | 234,000  | 170  |
| 177    | 4800                | 3 39                   | 297,000  | 225  | 283,000  | 215  | 269,000  | 205  | 254,000  | 195  |
| 184    | 5000                | 3 67                   | 314,000  | 255  | 300,000  | 245  | 287,000  | 235  | 274,000  | 230  |
| 191    | 5250                | 4 05                   |  |  | 322,000  | 290  | 309,000  | 280  | 297,000  | 270  |
| 203    | 5500                | 4 45                   |  |  | 343,000  | 340  | 332,000  | 325  | 319,000  | 320  |
| 212    | 5750                | 4 85                   |  |  | 364,000  | 390  | 353,000  | 380  | 342,000  | 370  |
| 221    | 6000                | 5 29                   |  |  |  |  | 375,000  | 440  | 363,000  | 425  |
| 231    | 6250                | 5 75                   |  |  |  |  | 395,000  | 500  | 384,000  | 490  |
| 240    | 6500                | 6 23                   |  |  |  |  |  |  | 406,000  | 555  |
| 249    | 6750                | 6 70                   |  |  |  |  |  |  | 427,000  | 630  |
| 258    | 7000                | 7 20                   |  |  |  |  |  |  | 439,000  | 700  |
| 277    | 7500                | 8 26                   |  |  |  |  |  |  |  |  |
| 295    | 8000                | 9 40                   |  |  |  |  |  |  |  |  |
| 313    | 8500                | 10 6                   |  |  |  |  |  |  |  |  |
| 332    | 9000                | 11 9                   |  |  |  |  |  |  |  |  |

| R.P.M. | Tip Speed<br>F.P.M. | S.N.D.<br>in<br>inches | Static Pressure<br>3" Water<br>2.02 ozs. per<br>sq. inch | Static Pressure<br>4" Water<br>2.31 ozs. per<br>sq. inch | Static Pressure<br>5" Water<br>2.89 ozs. per<br>sq. inch | Static Pressure<br>6" Water<br>3.47 ozs. per<br>sq. inch | Static Pressure<br>7" Water<br>4.05 ozs. per<br>sq. inch | Static Pressure<br>8" Water<br>4.63 ozs. per<br>sq. inch | Static Pressure<br>9" Water<br>5.2 ozs. per<br>sq. inch |
|--------|---------------------|------------------------|--|--|--|--|--|--|---|
| 194    | 5250                | 4 05                   | 179,000  | 170  |  |  |  |  |   |
| 203    | 5500                | 4 45                   | 219,000  | 230  | 162,000  | 190  |  |  |   |
| 212    | 5750                | 4 85                   | 250,000  | 280  | 214,000  | 245  |  |  |   |
| 221    | 6000                | 5 29                   | 279,000  | 340  | 249,000  | 310  |  |  |   |
| 231    | 6250                | 5 75                   | 306,000  | 405  | 279,000  | 370  | 210,000  | 285  |   |
| 240    | 6500                | 6 20                   | 331,000  | 470  | 307,000  | 440  | 250,000  | 365  |   |
| 249    | 6750                | 6 70                   | 356,000  | 545  | 334,000  | 515  | 284,000  | 445  |   |
| 258    | 7000                | 7 20                   | 379,000  | 625  | 360,000  | 595  | 314,000  | 525  | 256,000   |
| 277    | 7500                | 8 26                   | 425,000  | 790  | 409,000  | 770  | 368,000  | 700  | 321,000   |
| 295    | 8000                | 9 40                   | 471,000  | 985  | 455,000  | 960  | 418,000  | 900  | 380,000   |
| 313    | 8500                | 10 60                  | 515,000  | 1210   | 499,000  | 1180   | 466,000  | 1120   | 432,000   |
| 332    | 9000                | 11 90                  | 559,000  | 1470   | 542,000  | 1430   | 512,000  | 1370   | 481,000   |
| 350    | 9500                | 13 28                  | 600,000  | 1760   | 585,000  | 1720   | 558,000  | 1660   | 529,000   |
| 369    | 10000               | 14 7                   |  |  | 629,000  | 2010   | 601,000  | 1970   | 575,000   |

Double Inlet

## No. 22 Multivane Fan—Design 2

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.                                      | H. P. | Volume C.F.M.                                     | H. P. | Volume C.F.M.                                     | H. P. | Volume C.F.M.                                     | H. P. | Volume C.F.M.                                     | H. P. | Volume C.F.M.                                     | H. P. | Volume C.F.M.                                     | H. P. |
|--------|------------------|------------------|--|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|
|        |                  |                  | Static Pressure 1/2" Water .0722 ozs. per sq. inch |       | Static Pressure 1/2" Water .145 ozs. per sq. inch |       | Static Pressure 1/2" Water .217 ozs. per sq. inch |       | Static Pressure 1/2" Water .289 ozs. per sq. inch |       | Static Pressure 1/2" Water .361 ozs. per sq. inch |       | Static Pressure 1/2" Water .434 ozs. per sq. inch |       | Static Pressure 1/2" Water .506 ozs. per sq. inch |       |
| 33     | 1000             | 0.147            | 43,700   | 1.5   |   |       |   |       |   |       |   |       |   |       |   |       |
| 40     | 1200             | 0.212            | 73,000   | 3.6   |   |       |   |       |   |       |   |       |   |       |   |       |
| 46     | 1400             | 0.288            | 98,000   | 6.4   | 58,200  | 4.0   |   |       |   |       |   |       |   |       |   |       |
| 53     | 1600             | 0.376            | 120,000  | 10    | 91,500  | 8.0   |   |       |   |       |   |       |   |       |   |       |
| 59     | 1800             | 0.476            | 141,000  | 15    | 117,000   | 13.0  | 88,000  | 9.9   |   |       |   |       |   |       |   |       |
| 66     | 2000             | 0.588            |  |       | 141,000   | 18.5  | 118,000   | 16.0  | 86,800  | 12    |   |       |   |       |   |       |
| 73     | 2200             | 0.711            |  |       | 163,000   | 26    | 143,000   | 23.5  | 121,000   | 20    | 88,600  | 15    |   |       |   |       |
| 80     | 2400             | 0.847            |  |       | 181,000   | 34    | 167,000   | 32    | 148,000   | 29    | 126,000   | 25    | 96,400  | 19    |   |       |
| 86     | 2600             | 0.991            |  |       | 205,000   | 45    | 189,000   | 42    | 172,000   | 39    | 155,000   | 35    | 134,000   | 31    | 105,000   | 25    |
| 93     | 2800             | 1.15             |  |       |   |       | 211,000   | 54    | 196,000   | 50    | 180,000   | 48    | 163,000   | 43    | 143,000   | 38    |
| 100    | 3000             | 1.32             |  |       |   |       | 232,000   | 68    | 218,000   | 61    | 203,000   | 62    | 189,000   | 58    | 172,000   | 54    |
| 106    | 3200             | 1.51             |  |       |   |       | 252,000   | 84    | 240,000   | 80    | 227,000   | 76    | 214,000   | 74    | 199,000   | 70    |
| 113    | 3400             | 1.70             |  |       |   |       |   |       | 261,000   | 98    | 249,000   | 94    | 236,000   | 90    | 223,000   | 86    |
| 119    | 3600             | 1.91             |  |       |   |       |   |       | 282,000   | 120   | 270,000   | 115   | 259,000   | 110   | 247,000   | 105   |
| 126    | 3800             | 2.13             |  |       |   |       |   |       |   |       | 292,000   | 135   | 280,000   | 130   | 270,000   | 130   |
| 133    | 4000             | 2.35             |  |       |   |       |   |       |   |       | 313,000   | 160   | 302,000   | 155   | 292,000   | 155   |
| 138    | 4200             | 2.59             |  |       |   |       |   |       |   |       |   |       | 323,000   | 185   | 313,000   | 180   |
| 146    | 4400             | 2.84             |  |       |   |       |   |       |   |       |   |       |   |       | 335,000   | 210   |
| 152    | 4600             | 3.11             |  |       |   |       |   |       |   |       |   |       |   |       | 355,000   | 245   |
| 159    | 4800             | 3.39             |  |       |   |       |   |       |   |       |   |       |   |       | 377,000   | 285   |

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 ozs. per sq. inch | Static Pressure 1 1/2" Water .723 ozs. per sq. inch | Static Pressure 1 1/2" Water .878 ozs. per sq. inch | Static Pressure 1 3/4" Water 1.01 ozs. per sq. inch | Static Pressure 2" Water 1.18 ozs. per sq. inch | Static Pressure 2 1/2" Water 1.45 ozs. per sq. inch | Static Pressure 3" Water 1.73 ozs. per sq. inch |
|--------|------------------|------------------|---|---|---|---|---|---|---|
| 93     | 2800             | 1.15             | 117,000   | 32  |   |   |   |   |   |
| 100    | 3000             | 1.32             | 154,000   | 48  |   |   |   |   |   |
| 106    | 3200             | 1.51             | 183,000   | 64  | 116,000   | 52  |   |   |   |
| 113    | 3400             | 1.70             | 210,000   | 82  | 180,000   | 72  | 136,000   | 54  |   |
| 119    | 3600             | 1.91             | 231,000   | 105   | 208,000   | 92  | 176,000   | 80  |   |
| 126    | 3800             | 2.13             | 258,000   | 125   | 235,000   | 115   | 208,000   | 105   |   |
| 133    | 4000             | 2.35             | 281,000   | 150   | 259,000   | 140   | 235,000   | 130   |   |
| 138    | 4200             | 2.59             | 303,000   | 175   | 283,000   | 165   | 261,000   | 155   |   |
| 146    | 4400             | 2.84             | 325,000   | 205   | 306,000   | 195   | 287,000   | 185   |   |
| 152    | 4600             | 3.11             | 347,000   | 240   | 329,000   | 230   | 310,000   | 220   |   |
| 159    | 4800             | 3.39             | 368,000   | 275   | 350,000   | 265   | 333,000   | 255   |   |
| 166    | 5000             | 3.67             | 389,000   | 315   | 372,000   | 305   | 355,000   | 290   |   |
| 174    | 5250             | 4.05             |   |   | 398,000   | 355   | 383,000   | 345   |   |
| 182    | 5500             | 4.45             |   |   | 425,000   | 420   | 410,000   | 405   |   |
| 191    | 5750             | 4.85             |   |   | 451,000   | 485   | 437,000   | 470   |   |
| 199    | 6000             | 5.29             |   |   |   |   | 464,000   | 545   |   |
| 207    | 6250             | 5.75             |   |   |   |   | 489,000   | 620   |   |
| 216    | 6500             | 6.20             |   |   |   |   |   |   |   |
| 221    | 6750             | 6.70             |   |   |   |   |   |   |   |
| 232    | 7000             | 7.20             |   |   |   |   |   |   |   |
| 249    | 7500             | 8.26             |   |   |   |   |   |   |   |
| 265    | 8000             | 9.40             |   |   |   |   |   |   |   |
| 282    | 8500             | 10.6             |   |   |   |   |   |   |   |
| 299    | 9000             | 11.9             |   |   |   |   |   |   |   |

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 3 1/2" Water 2.02 ozs. per sq. inch | Static Pressure 4" Water 2.31 ozs. per sq. inch | Static Pressure 5" Water 2.89 ozs. per sq. inch | Static Pressure 6" Water 3.47 ozs. per sq. inch | Static Pressure 7" Water 4.05 ozs. per sq. inch | Static Pressure 8" Water 4.63 ozs. per sq. inch | Static Pressure 9" Water 5.2 ozs. per sq. inch |
|--------|------------------|------------------|---|---|---|---|---|---|--|
| 174    | 5250             | 4.05             | 221,000   | 215   |   |   |   |   |  |
| 182    | 5500             | 4.45             | 270,000   | 285   | 201,000   | 235   |   |   |  |
| 191    | 5750             | 4.85             | 309,000   | 350   | 265,000   | 305   |   |   |  |
| 199    | 6000             | 5.29             | 345,000   | 420   | 308,000   | 380   |   |   |  |
| 207    | 6250             | 5.75             | 378,000   | 500   | 345,000   | 460   |   |   |  |
| 216    | 6500             | 6.20             | 410,000   | 585   | 380,000   | 545   |   |   |  |
| 221    | 6750             | 6.70             | 441,000   | 675   | 413,000   | 635   |   |   |  |
| 232    | 7000             | 7.20             | 470,000   | 770   | 445,000   | 735   |   |   |  |
| 249    | 7500             | 8.26             | 526,000   | 980   | 506,000   | 950   |   |   |  |
| 265    | 8000             | 9.40             | 583,000   | 1220  | 562,000   | 1190  |   |   |  |
| 282    | 8500             | 10.60            | 636,000   | 1490  | 616,000   | 1460  |   |   |  |
| 299    | 9000             | 11.90            | 691,000   | 1820  | 670,000   | 1770  |   |   |  |
| 315    | 9500             | 13.28            | 743,000   | 2180  | 724,000   | 2120  |   |   |  |
| 332    | 10000            | 14.70            |   |   | 777,000   | 2520  |   |   |  |
|        |                  |                  |   |   |   |   | 264,000   | 420   |  |
|        |                  |                  |   |   |   |   | 316,000   | 530   |  |
|        |                  |                  |   |   |   |   | 397,000   | 765   |  |
|        |                  |                  |   |   |   |   | 470,000   | 1030  |  |
|        |                  |                  |   |   |   |   | 535,000   | 1310  |  |
|        |                  |                  |   |   |   |   | 595,000   | 1620  |  |
|        |                  |                  |   |   |   |   | 655,000   | 1960  |  |
|        |                  |                  |   |   |   |   | 710,000   | 2330  |  |
|        |                  |                  |   |   |   |   |   |   | 331,000  |
|        |                  |                  |   |   |   |   |   |   | 408,000  |
|        |                  |                  |   |   |   |   |   |   | 487,000  |
|        |                  |                  |   |   |   |   |   |   | 566,000  |
|        |                  |                  |   |   |   |   |   |   | 618,000  |
|        |                  |                  |   |   |   |   |   |   | 677,000  |
|        |                  |                  |   |   |   |   |   |   | 710,000  |
|        |                  |                  |   |   |   |   |   |   | 744,000  |
|        |                  |                  |   |   |   |   |   |   | 777,000  |
|        |                  |                  |   |   |   |   |   |   | 809,000  |
|        |                  |                  |   |   |   |   |   |   | 841,000  |
|        |                  |                  |   |   |   |   |   |   | 873,000  |
|        |                  |                  |   |   |   |   |   |   | 905,000  |
|        |                  |                  |   |   |   |   |   |   | 937,000  |
|        |                  |                  |   |   |   |   |   |   | 969,000  |
|        |                  |                  |   |   |   |   |   |   | 1001,000                                       |
|        |                  |                  |   |   |   |   |   |   | 1033,000                                       |
|        |                  |                  |   |   |   |   |   |   | 1065,000                                       |
|        |                  |                  |   |   |   |   |   |   | 1097,000                                       |
|        |                  |                  |   |   |   |   |   |   | 1129,000                                       |
|        |                  |                  |   |   |   |   |   |   | 1161,000                                       |
|        |                  |                  |   |   |   |   |   |   | 1193,000                                       |
|        |                  |                  |   |   |   |   |   |   | 1225,000                                       |
|        |                  |                  |   |   |   |   |   |   | 1257,000                                       |
|        |                  |                  |   |   |   |   |   |   | 1289,000                                       |
|        |                  |                  |   |   |   |   |   |   | 1321,000                                       |
|        |                  |                  |   |   |   |   |   |   | 1353,000                                       |
|        |                  |                  |   |   |   |   |   |   | 1385,000                                       |
|        |                  |                  |   |   |   |   |   |   | 1417,000                                       |
|        |                  |                  |   |   |   |   |   |   | 1449,000                                       |
|        |                  |                  |   |   |   |   |   |   | 1481,000                                       |
|        |                  |                  |   |   |   |   |   |   | 1513,000                                       |
|        |                  |                  |   |   |   |   |   |   | 1545,000                                       |
|        |                  |                  |   |   |   |   |   |   | 1577,000                                       |
|        |                  |                  |   |   |   |   |   |   | 1609,000                                       |
|        |                  |                  |   |   |   |   |   |   | 1641,000                                       |
|        |                  |                  |   |   |   |   |   |   | 1673,000                                       |
|        |                  |                  |   |   |   |   |   |   | 1705,000                                       |
|        |                  |                  |   |   |   |   |   |   | 1737,000                                       |
|        |                  |                  |   |   |   |   |   |   | 1769,000                                       |
|        |                  |                  |   |   |   |   |   |   | 1801,000                                       |
|        |                  |                  |   |   |   |   |   |   | 1833,000                                       |
|        |                  |                  |   |   |   |   |   |   | 1865,000                                       |
|        |                  |                  |   |   |   |   |   |   | 1897,000                                       |
|        |                  |                  |   |   |   |   |   |   | 1929,000                                       |
|        |                  |                  |   |   |   |   |   |   | 1961,000                                       |
|        |                  |                  |   |   |   |   |   |   | 1993,000                                       |
|        |                  |                  |   |   |   |   |   |   | 2025,000                                       |

Double Inlet

## No. 24 Multivane Fan — Design 2

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M. H. P. Static Pressure 1" Water .0722 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1 1/2" Water .145 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 2" Water .217 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 2 1/2" Water .289 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 3" Water .361 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 3 1/2" Water .434 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 4" Water .506 ozs. per sq. inch |
|--------|------------------|------------------|--|---|---|---|---|---|---|
| 31     | 1000             | 0 147            | 52,000 1 85  |   |   |   |   |   |   |
| 37     | 1200             | 0 212            | 89,100 4 35  |   |   |   |   |   |   |
| 42     | 1400             | 0 288            | 119,000 7 7  | 70,500 4 8  |   |   |   |   |   |
| 49     | 1600             | 0 376            | 145,000 12   | 111,000 9 6   |   |   |   |   |   |
| 55     | 1800             | 0 476            | 171,000 18   | 142,000 15 5  | 107,000 12 0  |   |   |   |   |
| 60     | 2000             | 0 588            |  | 170,000 22 5  | 142,000 19 5  | 105,000 14 5  |   |   |   |
| 67     | 2200             | 0 711            |  | 197,000 31  | 173,000 28  | 146,000 24  | 107,000 18  |   |   |
| 73     | 2400             | 0 847            |  | 222,000 42  | 202,000 38  | 179,000 35  | 152,000 30  |   |   |
| 79     | 2600             | 0 994            |  | 248,000 54  | 228,000 50  | 208,000 47  | 187,000 43  | 162,000 38  | 126,000 30  |
| 85     | 2800             | 1 15             |  |   | 255,000 66  | 237,000 62  | 217,000 58  | 197,000 52  | 172,000 47  |
| 91     | 3000             | 1 32             |  |   | 281,000 82  | 264,000 78  | 246,000 74  | 228,000 70  | 208,000 64  |
| 97     | 3200             | 1 51             |  |   | 305,000 100   | 290,000 96  | 275,000 92  | 259,000 88  | 241,000 84  |
| 103    | 3400             | 1 70             |  |   |   | 316,000 120   | 301,000 115   | 285,000 110   | 270,000 105   |
| 109    | 3600             | 1 91             |  |   |   | 341,000 145   | 326,000 140   | 313,000 135   | 298,000 130   |
| 115    | 3800             | 2 13             |  |   |   |   | 353,000 165   | 339,000 160   | 326,000 155   |
| 121    | 4000             | 2 35             |  |   |   |   | 378,000 195   | 365,000 190   | 353,000 185   |
| 127    | 4200             | 2 59             |  |   |   |   |   | 390,000 225   | 378,000 215   |
| 133    | 4400             | 2 84             |  |   |   |   |   |   | 405,000 255   |
| 140    | 4600             | 3 11             |  |   |   |   |   |   | 430,000 295   |
| 145    | 4800             | 3 39             |  |   |   |   |   |   | 455,000 340   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 ozs. per sq. inch                      | Static Pressure 1 1/2" Water .723 ozs. per sq. inch                     | Static Pressure 2" Water .878 ozs. per sq. inch                     | Static Pressure 2 1/2" Water 1.01 ozs. per sq. inch                     | Static Pressure 3" Water 1.16 ozs. per sq. inch                     | Static Pressure 3 1/2" Water 1.45 ozs. per sq. inch                     | Static Pressure 4" Water 1.73 ozs. per sq. inch                     |
| 85     | 2800             | 1 15             | 141,000 39   |   |   |   |   |   |   |
| 91     | 3000             | 1 32             | 186,000 58   |   |   |   |   |   |   |
| 97     | 3200             | 1 51             | 221,000 78   | 176,000 62  |   |   |   |   |   |
| 103    | 3400             | 1 70             | 254,000 100  | 217,000 86  | 164,000 66  |   |   |   |   |
| 109    | 3600             | 1 91             | 283,000 125  | 252,000 110   | 213,000 96  |   |   |   |   |
| 115    | 3800             | 2 13             | 312,000 150  | 284,000 140   | 252,000 125   | 212,000 105   |   |   |   |
| 121    | 4000             | 2 35             | 340,000 180  | 313,000 170   | 284,000 155   | 252,000 140   | 210,000 115   |   |   |
| 127    | 4200             | 2 59             | 366,000 210  | 343,000 200   | 316,000 190   | 286,000 175   | 255,000 155   |   |   |
| 133    | 4400             | 2 84             | 393,000 250  | 370,000 235   | 347,000 225   | 320,000 210   | 291,000 195   |   |   |
| 140    | 4600             | 3 11             | 420,000 290  | 398,000 275   | 375,000 265   | 350,000 250   | 326,000 235   | 265,000 195   |   |
| 145    | 4800             | 3 39             | 445,000 335  | 423,000 320   | 403,000 305   | 380,000 295   | 357,000 280   | 304,000 240   | 229,000 190   |
| 151    | 5000             | 3 67             | 470,000 380  | 449,000 365   | 430,000 350   | 410,000 340   | 388,000 325   | 341,000 290   | 282,000 245   |
| 159    | 5250             | 4 05             |  | 482,000 430   | 463,000 420   | 445,000 405   | 425,000 390   | 382,000 355   | 333,000 315   |
| 167    | 5500             | 4 45             |  | 513,000 505   | 496,000 490   | 478,000 480   | 459,000 460   | 420,000 430   | 376,000 390   |
| 174    | 5750             | 4 85             |  | 545,000 585   | 528,000 570   | 511,000 555   | 493,000 540   | 455,000 505   | 417,000 465   |
| 181    | 6000             | 5 29             |  |   | 560,000 655   | 543,000 635   | 526,000 620   | 492,000 590   | 456,000 555   |
| 189    | 6250             | 5 75             |  |   | 591,000 750   | 575,000 735   | 560,000 715   | 529,000 685   | 494,000 650   |
| 197    | 6500             | 6 20             |  |   |   | 607,000 830   | 590,000 810   | 560,000 780   | 530,000 745   |
| 204    | 6750             | 6 70             |  |   |   | 638,000 945   | 624,000 925   | 592,000 885   | 565,000 855   |
| 211    | 7000             | 7 20             |  |   |   |   | 656,000 1050  | 628,000 1010  | 600,000 970   |
| 226    | 7500             | 8 26             |  |   |   |   |   | 691,000 1260  | 665,000 1230  |
| 241    | 8000             | 9 40             |  |   |   |   |   | 755,000 1570  | 730,000 1520  |
| 256    | 8500             | 10 6             |  |   |   |   |   |   | 793,000 1850  |
| 271    | 9000             | 11 9             |  |   |   |   |   |   | 857,000 2250  |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 3 1/2" Water 2.02 ozs. per sq. inch                  | Static Pressure 4" Water 2.31 ozs. per sq. inch                         | Static Pressure 5" Water 2.89 ozs. per sq. inch                     | Static Pressure 6" Water 3.47 ozs. per sq. inch                         | Static Pressure 7" Water 4.05 ozs. per sq. inch                     | Static Pressure 8" Water 4.63 ozs. per sq. inch                         | Static Pressure 9" Water 5.2 ozs. per sq. inch                      |
| 159    | 5250             | 4 05             | 268,000 260  |   |   |   |   |   |   |
| 167    | 5500             | 4 45             | 327,000 345  | 243,000 280   |   |   |   |   |   |
| 174    | 5750             | 4 85             | 373,000 425  | 320,000 365   |   |   |   |   |   |
| 181    | 6000             | 5 29             | 417,000 510  | 372,000 460   |   |   |   |   |   |
| 189    | 6250             | 5 75             | 457,000 605  | 417,000 555   | 314,000 430   |   |   |   |   |
| 197    | 6500             | 6 20             | 495,000 705  | 459,000 660   | 373,000 545   |   |   |   |   |
| 204    | 6750             | 6 70             | 531,000 815  | 500,000 770   | 425,000 660   | 319,000 505   |   |   |   |
| 211    | 7000             | 7 20             | 568,000 935  | 538,000 890   | 469,000 785   | 382,000 640   |   |   |   |
| 226    | 7500             | 8 26             | 637,000 1180   | 612,000 1150  | 550,000 1050  | 480,000 930   | 400,000 785   |   |   |
| 241    | 8000             | 9 40             | 705,000 1470   | 680,000 1410  | 626,000 1350  | 569,000 1240  | 504,000 1110  | 421,000 935   |   |
| 256    | 8500             | 10 60            | 770,000 1810   | 745,000 1770  | 698,000 1670  | 646,000 1580  | 590,000 1470  | 528,000 1310  | 449,000 1130  |
| 271    | 9000             | 11 90            | 835,000 2200   | 810,000 2140  | 766,000 2050  | 720,000 1960  | 673,000 1850  | 619,000 1710  | 558,000 1550  |
| 287    | 9500             | 13 28            | 899,000 2640   | 876,000 2570  | 835,000 2480  | 791,000 2370  | 748,000 2270  | 700,000 2140  | 646,000 1990  |
| 302    | 10000            | 14 7             |  | 940,000 3050  | 900,000 2940  | 859,000 2820  | 820,000 2750  | 776,000 2620  | 732,000 2480  |

Double Inlet

## No. 26 Multivane Fan — Design 2

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M. H.P. Static Pressure $\frac{1}{8}$ " Water .0722 ozs. per sq. inch | Volume C.F.M. H.P. Static Pressure $\frac{1}{4}$ " Water .145 ozs. per sq. inch | Volume C.F.M. H.P. Static Pressure $\frac{3}{8}$ " Water .217 ozs. per sq. inch | Volume C.F.M. H.P. Static Pressure $\frac{1}{2}$ " Water .289 ozs. per sq. inch | Volume C.F.M. H.P. Static Pressure $\frac{5}{8}$ " Water .361 ozs. per sq. inch | Volume C.F.M. H.P. Static Pressure $\frac{3}{4}$ " Water .434 ozs. per sq. inch | Volume C.F.M. H.P. Static Pressure $\frac{7}{8}$ " Water .508 ozs. per sq. inch |
|--------|------------------|------------------|--|---|---|---|---|---|---|
| 28     | 1000             | 0 147            | 62,000 2 2   |   |   |   |   |   |   |
| 34     | 1200             | 0 212            | 106,000 5 2  |   |   |   |   |   |   |
| 39     | 1400             | 0 288            | 141,000 9 2  | 83,900 5 7  |   |   |   |   |   |
| 44     | 1600             | 0 376            | 173,000 14 5   | 132,000 11 5  |   |   |   |   |   |
| 50     | 1800             | 0 476            | 203,000 21 5   | 159,000 18 5  | 127,000 14  |   |   |   |   |
| 56     | 2000             | 0 588            |  | 202,000 27  | 169,000 23  | 125,000 18  |   |   |   |
| 61     | 2200             | 0 711            |  | 234,000 37  | 205,000 33  | 174,000 29  | 128,000 22  |   |   |
| 67     | 2400             | 0 847            |  | 264,000 50  | 240,000 46  | 213,000 41  | 181,000 36  | 139,000 28  |   |
| 72     | 2600             | 0 994            |  | 295,000 64  | 272,000 60  | 248,000 56  | 222,000 50  | 192,000 45  | 150,000 36  |
| 78     | 2800             | 1 15             |  |   | 303,000 78  | 282,000 74  | 258,000 68  | 234,000 62  | 205,000 56  |
| 83     | 3000             | 1 32             |  |   | 334,000 98  | 314,000 92  | 293,000 88  | 271,000 82  | 248,000 78  |
| 89     | 3200             | 1 51             |  |   | 363,000 120   | 345,000 115   | 327,000 110   | 308,000 105   | 287,000 100   |
| 94     | 3400             | 1 70             |  |   |   | 376,000 140   | 358,000 135   | 340,000 130   | 321,000 125   |
| 100    | 3600             | 1 91             |  |   |   | 405,000 170   | 388,000 165   | 372,000 160   | 355,000 155   |
| 106    | 3800             | 2 13             |  |   |   |   | 420,000 195   | 403,000 190   | 388,000 185   |
| 111    | 4000             | 2 35             |  |   |   |   | 450,000 235   | 435,000 225   | 420,000 220   |
| 116    | 4200             | 2 59             |  |   |   |   |   | 464,000 265   | 450,000 260   |
| 122    | 4400             | 2 84             |  |   |   |   |   |   | 481,000 305   |
| 128    | 4600             | 3 11             |  |   |   |   |   |   | 510,000 350   |
| 133    | 4800             | 3 39             |  |   |   |   |   |   | 541,000 405   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure $1\frac{1}{8}$ " Water .578 ozs. per sq. inch                    | Static Pressure $1\frac{1}{4}$ " Water .723 ozs. per sq. inch                   | Static Pressure $1\frac{1}{2}$ " Water .878 ozs. per sq. inch                   | Static Pressure $1\frac{3}{4}$ " Water 1.01 ozs. per sq. inch                   | Static Pressure 2" Water 1.16 ozs. per sq. inch                                 | Static Pressure $2\frac{1}{4}$ " Water 1.45 ozs. per sq. inch                   | Static Pressure $2\frac{1}{2}$ " Water 1.73 ozs. per sq. inch                   |
| 78     | 2800             | 1 15             | 168,000 46   |   |   |   |   |   |   |
| 83     | 3000             | 1 32             | 222,000 68   |   |   |   |   |   |   |
| 89     | 3200             | 1 51             | 263,000 92   | 210,000 71  |   |   |   |   |   |
| 94     | 3400             | 1 70             | 302,000 120  | 259,000 105   | 195,000 78  |   |   |   |   |
| 100    | 3600             | 1 91             | 337,000 150  | 300,000 130   | 254,000 115   |   |   |   |   |
| 106    | 3800             | 2 13             | 371,000 180  | 338,000 165   | 300,000 150   | 253,000 125   |   |   |   |
| 111    | 4000             | 2 35             | 404,000 215  | 372,000 200   | 338,000 185   | 300,000 165   | 250,000 140   |   |   |
| 116    | 4200             | 2 59             | 436,000 255  | 408,000 240   | 376,000 225   | 341,000 205   | 303,000 185   |   |   |
| 122    | 4400             | 2 84             | 468,000 295  | 440,000 280   | 412,000 270   | 381,000 250   | 347,000 230   | 255,000 170   |   |
| 128    | 4600             | 3 11             | 500,000 345  | 473,000 330   | 446,000 315   | 417,000 300   | 388,000 280   | 315,000 230   |   |
| 133    | 4800             | 3 39             | 529,000 395  | 501,000 380   | 479,000 365   | 452,000 350   | 425,000 330   | 362,000 285   | 273,000 235   |
| 139    | 5000             | 3 67             | 560,000 455  | 535,000 435   | 511,000 420   | 487,000 405   | 461,000 390   | 405,000 345   | 336,000 290   |
| 146    | 5250             | 4 05             |  | 573,000 515   | 550,000 500   | 529,000 480   | 505,000 465   | 455,000 425   | 396,000 375   |
| 153    | 5500             | 4 45             |  | 610,000 600   | 590,000 580   | 569,000 570   | 546,000 550   | 500,000 510   | 448,000 465   |
| 160    | 5750             | 4 85             |  | 649,000 695   | 629,000 675   | 609,000 660   | 586,000 640   | 541,000 600   | 496,000 555   |
| 166    | 6000             | 5 29             |  |   | 667,000 780   | 646,000 760   | 626,000 740   | 586,000 700   | 543,000 660   |
| 173    | 6250             | 5 75             |  |   | 704,000 895   | 684,000 870   | 666,000 855   | 629,000 815   | 587,000 770   |
| 180    | 6500             | 6 20             |  |   |   | 722,000 990   | 702,000 965   | 666,000 925   | 631,000 885   |
| 187    | 6750             | 6 70             |  |   |   | 760,000 1120  | 743,000 1100  | 705,000 1050  | 672,000 1020  |
| 194    | 7000             | 7 20             |  |   |   |   | 781,000 1240  | 748,000 1200  | 714,000 1160  |
| 207    | 7500             | 8 26             |  |   |   |   |   | 823,000 1500  | 791,000 1460  |
| 221    | 8000             | 9 40             |  |   |   |   |   | 899,000 1870  | 870,000 1810  |
| 235    | 8500             | 10 6             |  |   |   |   |   |   | 944,000 2210  |
| 249    | 9000             | 11 9             |  |   |   |   |   |   | 1,020,000 2680  |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure $3\frac{1}{8}$ " Water 2.02 ozs. per sq. inch                    | Static Pressure $3\frac{1}{4}$ " Water 2.31 ozs. per sq. inch                   | Static Pressure $3\frac{1}{2}$ " Water 2.89 ozs. per sq. inch                   | Static Pressure $3\frac{3}{4}$ " Water 3.47 ozs. per sq. inch                   | Static Pressure 4" Water 4.05 ozs. per sq. inch                                 | Static Pressure $4\frac{1}{8}$ " Water 4.63 ozs. per sq. inch                   | Static Pressure $4\frac{1}{4}$ " Water 5.2 ozs. per sq. inch                    |
| 146    | 5250             | 4 05             | 318,000 305  |   |   |   |   |   |   |
| 153    | 5500             | 4 45             | 389,000 410  | 289,000 335   |   |   |   |   |   |
| 160    | 5750             | 4 85             | 444,000 505  | 381,000 435   |   |   |   |   |   |
| 166    | 6000             | 5 29             | 496,000 610  | 443,000 550   |   |   |   |   |   |
| 173    | 6250             | 5 75             | 544,000 725  | 496,000 630   | 374,000 510   |   |   |   |   |
| 180    | 6500             | 6 20             | 589,000 840  | 546,000 785   | 444,000 650   |   |   |   |   |
| 187    | 6750             | 6 70             | 635,000 970  | 595,000 915   | 505,000 785   | 380,000 605   |   |   |   |
| 194    | 7000             | 7 20             | 675,000 1110   | 640,000 1060  | 558,000 935   | 455,000 765   |   |   |   |
| 207    | 7500             | 8 26             | 758,000 1410   | 720,000 1370  | 655,000 1240  | 571,000 1110  | 476,000 935   |   |   |
| 221    | 8000             | 9 40             | 839,000 1750   | 800,000 1710  | 744,000 1600  | 677,000 1480  | 599,000 1320  | 500,000 1110  |   |
| 235    | 8500             | 10 6             | 916,000 2150   | 886,000 2100  | 830,000 1980  | 769,000 1880  | 701,000 1750  | 629,000 1560  | 535,000 1340  |
| 249    | 9000             | 11 90            | 994,000 2620   | 965,000 2550  | 912,000 2440  | 858,000 2330  | 800,000 2190  | 735,000 2030  | 664,000 1850  |
| 262    | 9500             | 13 28            | 1,070,000 3140   | 1,030,000 3060  | 994,000 2950  | 941,000 2820  | 890,000 2700  | 833,000 2550  | 770,000 2370  |
| 276    | 10000            | 14 70            |  | 1,120,000 3630  | 1,070,000 3500  | 1,020,000 3360  | 975,000 3270  | 924,000 3110  | 871,000 2950  |

Double Inlet

## No. 2 Multivane Fan—Design 2

Double Width

When Discharging Air at 65 F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed<br>F.P.M. | S.N.D.<br>in<br>inches | Volume<br>C.F.M.  |  | H. P. | Volume<br>C.F.M.   |  | H. P. | Volume<br>C.F.M.   |  | H. P. | Volume<br>C.F.M.   |      | H. P. | Volume<br>C.F.M. |       | H. P. | Volume<br>C.F.M. |     | H. P. | Volume<br>C.F.M. |  | H. P. |
|--------|---------------------|------------------------|---|--|-------|--|--|-------|--|--|-------|--|------|-------|------------------|-------|-------|------------------|-----|-------|------------------|--|-------|
|        |                     |                        | Static Pressure<br>1" Water<br>.0722 ozs. per<br>sq. inch | Static Pressure<br>1" Water<br>.145 ozs. per<br>sq. inch |       | Static Pressure<br>1 1/2" Water<br>.217 ozs. per<br>sq. inch | Static Pressure<br>1 1/2" Water<br>.289 ozs. per<br>sq. inch |       | Static Pressure<br>2" Water<br>.361 ozs. per<br>sq. inch | Static Pressure<br>2 1/2" Water<br>.434 ozs. per<br>sq. inch |       | Static Pressure<br>3" Water<br>.506 ozs. per<br>sq. inch |      |       |                  |       |       |                  |     |       |                  |  |       |
| 319    | 1050                | 0 179                  | 872   | 0 01   |       |  |  |       |  |  |       |  |      |       |                  |       |       |                  |     |       |                  |  |       |
| 400    | 1200                | 0 233                  | 1,330   | 0 06   |       |  |  |       |  |  |       |  |      |       |                  |       |       |                  |     |       |                  |  |       |
| 466    | 1400                | 0 316                  | 1,670   | 0 12   |       |  |  |       |  |  |       |  |      |       |                  |       |       |                  |     |       |                  |  |       |
| 532    | 1600                | 0 412                  | 2,000   | 0 16   |       | 1,650  | 0 14   |       |  |  |       |  |      |       |                  |       |       |                  |     |       |                  |  |       |
| 598    | 1800                | 0 520                  | 2,300   | 0 21   |       | 2,080  | 0 24   | 1,310 | 0 14   |  |       |  |      |       |                  |       |       |                  |     |       |                  |  |       |
| 665    | 2000                | 0 615                  |   |  |       | 2,120  | 0 31   | 2,120 | 0 28   |  |       |  |      |       |                  |       |       |                  |     |       |                  |  |       |
| 731    | 2200                | 0 780                  |   |  |       | 2,710  | 0 44   | 2,510 | 0 44   |  |       | 2,110  | 0 34 |       |                  |       |       |                  |     |       |                  |  |       |
| 797    | 2400                | 0 930                  |   |  |       | 3,060  | 0 58   | 2,860 | 0 58   |  |       | 2,610  | 0 52 | 2,160 | 0 42             |       |       |                  |     |       |                  |  |       |
| 864    | 2600                | 1 09                   |   |  |       | 3,360  | 0 71   | 3,180 | 0 74   | 3,020  | 0 80  | 2,780  | 0 64 | 2,240 | 0 50             |       |       |                  |     |       |                  |  |       |
| 930    | 2800                | 1 26                   |   |  |       |  |  | 3,500 | 0 92   | 3,340  | 0 92  | 3,200  | 0 88 | 2,920 | 0 78             | 2,360 | 0 62  |                  |     |       |                  |  |       |
| 996    | 3000                | 1 45                   |   |  |       |  |  | 3,820 | 1 15   | 3,680  | 1 15  | 3,540  | 1 10 | 3,360 | 1 05             | 3,080 | 0 96  |                  |     |       |                  |  |       |
| 1062   | 3200                | 1 65                   |   |  |       |  |  | 4,140 | 1 4  | 3,980  | 1 40  | 3,880  | 1 40 | 3,720 | 1 35             | 3,560 | 1 30  |                  |     |       |                  |  |       |
| 1130   | 3400                | 1 86                   |   |  |       |  |  |       |  | 4,320  | 1 65  | 4,180  | 1 65 | 4,010 | 1 65             | 3,940 | 1 65  |                  |     |       |                  |  |       |
| 1196   | 3600                | 2 10                   |   |  |       |  |  |       |  | 4,620  | 1 95  | 4,480  | 1 95 | 4,360 | 2 0              | 4,260 | 1 95  |                  |     |       |                  |  |       |
| 1262   | 3800                | 2 32                   |   |  |       |  |  |       |  |  |       | 4,820  | 2 4  | 4,720 | 2 4              | 4,600 | 2 4   |                  |     |       |                  |  |       |
| 1329   | 4000                | 2 58                   |   |  |       |  |  |       |  |  |       | 5,120  | 2 6  | 5,010 | 2 7              | 4,900 | 2 6   |                  |     |       |                  |  |       |
| 1396   | 4200                | 2 85                   |   |  |       |  |  |       |  |  |       |  |      |       |                  |       |       |                  |     |       |                  |  |       |
| 1462   | 4400                | 3 13                   |   |  |       |  |  |       |  |  |       |  |      |       |                  | 5,340 | 3 1   | 5,220            | 3 0 |       |                  |  |       |
| 1528   | 4600                | 3 41                   |   |  |       |  |  |       |  |  |       |  |      |       |                  | 5,610 | 3 6   | 5,510            | 3 6 |       |                  |  |       |
| 1594   | 4800                | 3 7                    |   |  |       |  |  |       |  |  |       |  |      |       |                  |       |       | 5,860            | 4 2 |       |                  |  |       |
|        |                     |                        |   |  |       |  |  |       |  |  |       |  |      |       |                  |       |       | 6,180            | 4 6 |       |                  |  |       |

| R.P.M. | Tip Speed<br>F.P.M. | S.N.D.<br>in<br>inches | Static Pressure<br>1" Water<br>.578 ozs. per<br>sq. inch |      | Static Pressure<br>1 1/4" Water<br>.723 ozs. per<br>sq. inch |      | Static Pressure<br>1 1/2" Water<br>.878 ozs. per<br>sq. inch |      | Static Pressure<br>1 3/4" Water<br>1.01 ozs. per<br>sq. inch |     | Static Pressure<br>2" Water<br>1.16 ozs. per<br>sq. inch |      | Static Pressure<br>2 1/2" Water<br>1.45 ozs. per<br>sq. inch |      | Static Pressure<br>3" Water<br>1.73 ozs. per<br>sq. inch |      |
|--------|---------------------|------------------------|--|------|--|------|--|------|--|-----|--|------|--|------|--|------|
|        |                     |                        |  |      |  |      |  |      |  |     |  |      |  |      |  |      |
| 996    | 3000                | 1 45                   | 2,580  | 0 78 |  |      |  |      |  |     |  |      |  |      |  |      |
| 1062   | 3200                | 1 65                   | 3,280  | 1 15 |  |      |  |      |  |     |  |      |  |      |  |      |
| 1130   | 3400                | 1 86                   | 3,760  | 1 5  | 3,080  | 1 20 |  |      |  |     |  |      |  |      |  |      |
| 1196   | 3600                | 2 10                   | 4,110  | 1 9  | 3,740  | 1 65 | 2,800  | 1 25 |  |     |  |      |  |      |  |      |
| 1262   | 3800                | 2 32                   | 4,480  | 2 2  | 4,220  | 2 0  | 3,660  | 1 8  |  |     |  |      |  |      |  |      |
| 1329   | 4000                | 2 58                   | 4,780  | 2 6  | 4,580  | 2 6  | 4,220  | 2 2  | 3,540  | 1 9 |  |      |  |      |  |      |
| 1396   | 4200                | 2 85                   | 5,120  | 3 0  | 4,940  | 3 0  | 4,680  | 2 8  | 4,260  | 2 6 | 3,440  | 2 1  |  |      |  |      |
| 1462   | 4400                | 3 13                   | 5,480  | 3 6  | 5,260  | 3 6  | 5,000  | 3 4  | 4,780  | 3 2 | 4,280  | 2 8  |  |      |  |      |
| 1528   | 4600                | 3 41                   | 5,780  | 4 2  | 5,600  | 4 0  | 5,400  | 4 0  | 5,200  | 3 8 | 4,860  | 3 6  | 3,240  | 2 2  |  |      |
| 1594   | 4800                | 3 70                   | 6,080  | 4 6  | 5,900  | 4 6  | 5,740  | 4 6  | 5,560  | 4 4 | 5,300  | 4 2  | 4,320  | 3 2  |  |      |
| 1662   | 5000                | 4 05                   | 6,380  | 5 4  | 6,220  | 5 4  | 6,060  | 5 2  | 5,880  | 5 2 | 5,660  | 5 2  | 5,020  | 4 2  | 3,280  | 2 8  |
| 1715   | 5250                | 4 41                   |  |      | 6,620  | 6 2  | 6,480  | 6 2  | 6,280  | 6 2 | 6,120  | 6 0  | 5,660  | 5 4  | 4,720  | 4 4  |
| 1828   | 5500                | 4 88                   |  |      | 6,980  | 7    | 6,860  | 7 0  | 6,680  | 7 0 | 6,520  | 7 0  | 6,200  | 6 6  | 5,580  | 5 8  |
| 1910   | 5750                | 5 33                   |  |      | 7,380  | 8    | 7,240  | 8 0  | 7,100  | 8 0 | 6,960  | 8 0  | 6,660  | 7 8  | 6,200  | 7 0  |
| 1993   | 6000                | 5 80                   |  |      |  |      | 7,640  | 9 1  |  |     | 7,480  | 9 0  | 7,360  | 9 0  | 6,700  | 8 4  |
| 2076   | 6250                | 6 30                   |  |      |  |      |  |      |  |     | 7,880  | 10 0 | 7,760  | 10 0 | 7,180  | 10 0 |
| 2160   | 6500                | 6 81                   |  |      |  |      |  |      |  |     | 8,280  | 11 5 | 8,120  | 11 5 | 7,640  | 11 5 |
| 2240   | 6750                | 7 31                   |  |      |  |      |  |      |  |     | 8,660  | 13   | 8,560  | 13 0 | 8,010  | 13 0 |
| 2325   | 7000                | 7 89                   |  |      |  |      |  |      |  |     |  |      | 8,920  | 14 5 | 8,460  | 11 5 |
| 2490   | 7500                | 9 06                   |  |      |  |      |  |      |  |     |  |      |  |      | 9,220  | 18   |
| 2660   | 8000                | 10 32                  |  |      |  |      |  |      |  |     |  |      |  |      | 10,020   | 22   |
| 2820   | 8500                | 11 63                  |  |      |  |      |  |      |  |     |  |      |  |      | 10,820   | 26   |
| 2990   | 9000                | 13 05                  |  |      |  |      |  |      |  |     |  |      |  |      | 11,600   | 31   |

| R.P.M. | Tip Speed<br>F.P.M. | S.N.D.<br>in<br>inches | Static Pressure<br>3 1/2" Water<br>2.89 ozs. per<br>sq. inch |      | Static Pressure<br>4" Water<br>2.31 ozs. per<br>sq. inch |      | Static Pressure<br>5" Water<br>2.89 ozs. per<br>sq. inch |     | Static Pressure<br>6" Water<br>3.47 ozs. per<br>sq. inch |    | Static Pressure<br>7" Water<br>4.05 ozs. per<br>sq. inch |    | Static Pressure<br>8" Water<br>4.63 ozs. per<br>sq. inch |    | Static Pressure<br>9" Water<br>5.2 ozs. per<br>sq. inch |    |
|--------|---------------------|------------------------|--|------|--|------|--|-----|--|----|--|----|--|----|---|----|
|        |                     |                        |  |      |  |      |  |     |  |    |  |    |  |    |   |    |
| 1828   | 5500                | 4 88                   | 4,200  | 4 2  |  |      |  |     |  |    |  |    |  |    |   |    |
| 1910   | 5750                | 5 33                   | 5,400  | 6 2  | 3,440  | 4 0  |  |     |  |    |  |    |  |    |   |    |
| 1993   | 6000                | 5 80                   | 6,180  | 7 6  | 5,110  | 6 2  |  |     |  |    |  |    |  |    |   |    |
| 2076   | 6250                | 6 30                   | 6,820  | 9 2  | 6,120  | 7 8  |  |     |  |    |  |    |  |    |   |    |
| 2160   | 6500                | 6 81                   | 7,320  | 11 0 | 6,840  | 9 8  | 4,560  | 6 6 |  |    |  |    |  |    |   |    |
| 2240   | 6750                | 7 31                   | 7,760  | 12 5 | 7,380  | 12 0 | 5,940  | 9 0 |  |    |  |    |  |    |   |    |
| 2325   | 7000                | 7 89                   | 8,200  | 14 5 | 7,880  | 13 5 | 6,880  | 11  |  |    |  |    |  |    |   |    |
| 2490   | 7500                | 9 06                   | 9,000  | 18   | 8,780  | 17 5 | 8,160  | 16  | 6,960  | 13 |  |    |  |    |   |    |
| 2660   | 8000                | 10 32                  | 9,800  | 22   | 9,620  | 22   | 9,140  | 20  | 8,180  | 19 | 7,060  | 14 |  |    |   |    |
| 2820   | 8500                | 11 63                  | 10,600   | 26   | 10,400   | 26   | 10,000   | 25  | 9,560  | 24 | 8,710  | 22 | 7,300  | 18 |   |    |
| 2990   | 9000                | 13 05                  | 11,400   | 31   | 11,200   | 31   | 10,960   | 31  | 10,400   | 30 | 9,960  | 28 | 9,140  | 25 | 7,680   | 21 |
| 3160   | 9500                | 14 53                  | 12,000   | 36   | 12,000   | 36   | 11,600   | 36  | 11,300   | 36 | 10,900   | 35 | 10,300   | 33 | 9,560   | 29 |
| 3320   | 10000               | 16 20                  |  |      |  |      |  |     |  |    |  |    | 11,400   | 41 | 11,900  | 38 |

## Double Width

[illegible][illegible]

Double Inlet

**No. 4 Multivane Fan—Design 2**

Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M. H. P.                                 | Volume C.F.M. H. P.                                 | Volume C.F.M. H. P.                                 | Volume C.F.M. H. P.                                 | Volume C.F.M. H. P.                               | Volume C.F.M. H. P.                                 | Volume C.F.M. H. P.                               | Volume C.F.M. H. P. |
|--------|------------------|------------------|---|---|---|---|---|---|---|---------------------|
|        |                  |                  | Static Pressure 1/4" Water .0722 ozs. per sq. inch  | Static Pressure 1/4" Water .145 ozs. per sq. inch   | Static Pressure 3/8" Water .217 ozs. per sq. inch   | Static Pressure 1/2" Water .289 ozs. per sq. inch   | Static Pressure 5/8" Water .361 ozs. per sq. inch | Static Pressure 3/4" Water .434 ozs. per sq. inch   | Static Pressure 7/8" Water .506 ozs. per sq. inch |                     |
| 231    | 1050             | 0 179            | 1,974 0 074   |   |   |   |   |   |   |                     |
| 265    | 1200             | 0 233            | 3,000 0 15  |   |   |   |   |   |   |                     |
| 309    | 1400             | 0 316            | 5,780 0 26  |   |   |   |   |   |   |                     |
| 353    | 1600             | 0 412            | 1,520 0 37  | 3,720 0 33  |   |   |   |   |   |                     |
| 397    | 1800             | 0 520            | 5,200 0 52  | 4,680 0 54  | 3,060 0 34  |   |   |   |   |                     |
| 442    | 2000             | 0 645            |   | 5,460 0 77  | 4,800 0 66  |   |   |   |   |                     |
| 486    | 2200             | 0 780            |   | 6,200 1 0   | 5,720 1 0   | 4,840 0 79  |   |   |   |                     |
| 530    | 2400             | 0 930            |   | 6,910 1 3   | 6,460 1 3   | 5,980 1 2   | 4,880 0 96  |   |   |                     |
| 573    | 2600             | 1 09             |   | 7,600 1 7   | 7,200 1 7   | 6,820 1 6   | 6,280 1 45  | 5,060 1 15  |   |                     |
| 618    | 2800             | 1 26             |   |   | 7,940 2 1   | 7,560 2 1   | 7,200 2 00  | 6,600 1 8   | 5,320 1 40  |                     |
| 662    | 3000             | 1 45             |   |   | 8,640 2 6   | 8,300 2 6   | 8,000 2 55  | 7,600 2 4   | 6,980 2 35  |                     |
| 706    | 3200             | 1 65             |   |   | 9,310 3 1   | 9,000 3 1   | 8,740 3 1   | 8,400 3 1   | 8,040 2 9   |                     |
| 750    | 3400             | 1 86             |   |   |   | 9,740 3 7   | 9,440 3 7   | 9,140 3 7   | 8,900 3 7   |                     |
| 794    | 3600             | 2 10             |   |   |   | 10,400 4 5  | 10,100 4 5  | 9,880 4 5   | 9,620 4 4   |                     |
| 838    | 3800             | 2 32             |   |   |   |   | 10,900 5 4  | 10,700 5 4  | 10,400 5 4  |                     |
| 883    | 4000             | 2 58             |   |   |   |   | 11,500 6 1  | 11,400 6 1  | 11,100 6 1  |                     |
| 927    | 4200             | 2 85             |   |   |   |   |   | 12,100 7 0  | 11,800 6 9  |                     |
| 970    | 4400             | 3 13             |   |   |   |   |   | 12,700 8 1  | 12,500 8 1  |                     |
| 1015   | 4600             | 3 41             |   |   |   |   |   |   | 13,200 2 3  |                     |
| 1059   | 4800             | 3 7              |   |   |   |   |   |   | 13,900 10 5                                       |                     |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 ozs. per sq. inch     | Static Pressure 1 1/2" Water .723 ozs. per sq. inch | Static Pressure 1 1/2" Water .878 ozs. per sq. inch | Static Pressure 1 3/4" Water 1.01 ozs. per sq. inch | Static Pressure 2" Water 1.16 ozs. per sq. inch   | Static Pressure 2 1/2" Water 1.45 ozs. per sq. inch | Static Pressure 3" Water 1.73 ozs. per sq. inch   |                     |
| 662    | 3000             | 1 45             | 5,820 1 8   |   |   |   |   |   |   |                     |
| 706    | 3200             | 1 65             | 7,420 2 6   |   |   |   |   |   |   |                     |
| 750    | 3400             | 1 86             |   | 6,940 2 7   |   |   |   |   |   |                     |
| 794    | 3600             | 2 10             |   | 8,480 3 4   |   |   |   |   |   |                     |
| 838    | 3800             | 2 32             |   | 9,360 4 4   | 6,320 2 8   |   |   |   |   |                     |
| 883    | 4000             | 2 58             |   | 10,100 5 2  | 8,260 4 1   |   |   |   |   |                     |
| 927    | 4200             | 2 85             |   | 10,800 6 1  | 9,500 5 3   | 8,000 4 3   |   |   |   |                     |
| 970    | 4400             | 3 13             |   | 11,600 7 0  | 10,500 6 6  | 9,620 5 8   | 7,760 4 7   |   |   |                     |
| 1015   | 4600             | 3 41             |   | 11,900 8 1  | 11,400 7 9  | 10,800 7 3  | 9,660 6 4   |   |   |                     |
| 1059   | 4800             | 3 70             |   | 12,700 9 3  | 12,200 9 2  | 11,800 8 7  | 11,000 8 1  | 7,300 5 3   |   |                     |
| 1103   | 5000             | 4 05             |   | 13,300 10 5   | 12,900 10 5   | 12,600 10 5   | 11,900 9 6  | 9,740 7 6   |   |                     |
| 1159   | 5250             | 4 44             | 14,400 12   | 14,100 12   | 13,700 12   | 13,300 12   | 12,800 11 5                                       | 11,300 9 7  | 7,440 6 5   |                     |
| 1213   | 5500             | 4 88             |   | 14,900 15   | 14,600 15   | 14,200 15   | 13,800 13 5                                       | 12,800 12   | 10,700 9 9  |                     |
| 1269   | 5750             | 5 33             |   | 15,800 16   | 15,500 16   | 15,100 16   | 14,800 16   | 14,000 15   | 12,600 13   |                     |
| 1323   | 6000             | 5 80             |   | 16,700 20   | 16,300 20   | 16,100 20   | 15,700 18   | 15,100 18   | 14,000 16   |                     |
| 1380   | 6250             | 6 30             |   |   | 17,300 21   | 16,900 21   | 16,600 20   | 16,000 20   | 15,200 19   |                     |
| 1434   | 6500             | 6 81             |   |   |   | 17,800 23   | 17,500 23   | 16,900 23   | 16,200 23   |                     |
| 1490   | 6750             | 7 34             |   |   |   | 18,700 26   | 18,400 26   | 17,800 26   | 17,100 26   |                     |
| 1544   | 7000             | 7 89             |   |   |   | 19,500 29   | 19,300 29   | 18,700 29   | 18,200 29   |                     |
| 1650   | 7500             | 9 06             |   |   |   |   | 20,200 33   | 19,600 33   | 19,100 33   |                     |
| 1760   | 8000             | 10 32            |   |   |   |   |   | 21,400 40   | 20,800 40   |                     |
| 1870   | 8500             | 11 63            |   |   |   |   |   |   | 22,600 50   |                     |
| 1980   | 9000             | 13 05            |   |   |   |   |   |   | 24,400 58   |                     |
|        |                  |                  |   |   |   |   |   |   | 26,200 70   |                     |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 3 1/2" Water 2.02 ozs. per sq. inch | Static Pressure 4" Water 2.31 ozs. per sq. inch     | Static Pressure 5" Water 2.89 ozs. per sq. inch     | Static Pressure 6" Water 3.47 ozs. per sq. inch     | Static Pressure 7" Water 4.05 ozs. per sq. inch   | Static Pressure 8" Water 4.63 ozs. per sq. inch     | Static Pressure 9" Water 5.2 ozs. per sq. inch    |                     |
| 1213   | 5500             | 4 88             | 9,480 9 8   |   |   |   |   |   |   |                     |
| 1269   | 5750             | 5 33             | 12,200 13 5   | 7,700 9   |   |   |   |   |   |                     |
| 1323   | 6000             | 5 80             | 14,000 17 4   | 10,600 14   |   |   |   |   |   |                     |
| 1380   | 6250             | 6 30             | 15,400 21   | 13,800 18   |   |   |   |   |   |                     |
| 1434   | 6500             | 6 81             | 16,500 25   | 15,400 22   | 10,300 15   |   |   |   |   |                     |
| 1490   | 6750             | 7 34             | 17,500 29   | 16,700 27   | 13,400 21   |   |   |   |   |                     |
| 1544   | 7000             | 7 89             | 18,500 32   | 17,800 31   | 15,500 25   |   |   |   |   |                     |
| 1650   | 7500             | 9 06             | 20,400 40   | 19,800 40   | 18,500 36   | 15,700 30   |   |   |   |                     |
| 1760   | 8000             | 10 32            | 22,200 50   | 21,800 49   | 20,800 46   | 19,200 42   | 15,900 34   |   |   |                     |
| 1870   | 8500             | 11 63            | 24,000 58   | 23,600 58   | 22,600 58   | 21,600 54   | 19,800 49   |   |   |                     |
| 1980   | 9000             | 13 05            | 25,800 70   | 25,400 70   | 24,600 70   | 23,600 68   | 22,600 64   | 16,500 40   |   |                     |
| 2030   | 9500             | 14 53            | 27,600 82   | 27,200 82   | 26,200 82   | 25,600 82   | 24,600 80   | 20,600 58   | 17,780 48   |                     |
| 2200   | 10000            | 16 2             |   | 28,800 96   | 28,200 96   | 27,400 96   | 26,600 96   | 25,800 92   | 21,600 66   |                     |
|        |                  |                  |   |   |   |   |   |   | 24,600 86   |                     |

### Double Width

| R.P.M. | Tip Speed<br>F.P.M. | S.N.D.<br>in<br>inches | Static Pressure<br>3½" Water<br>2.02 oza. per<br>sq. inch |      | Static Pressure<br>4" Water<br>2.31 oza. per<br>sq. inch |     | Static Pressure<br>5" Water<br>2.89 oza. per<br>sq. inch |     | Static Pressure<br>6" Water<br>3.47 oza. per<br>sq. inch |     | Static Pressure<br>7" Water<br>4.05 oza. per<br>sq. inch |     | Static Pressure<br>8" Water<br>4.63 oza. per<br>sq. inch |     | Static Pressure<br>9" Water<br>5.2 oza. per<br>sq. inch |     |
|--------|---------------------|------------------------|---|------|--|-----|--|-----|--|-----|--|-----|--|-----|---|-----|
| 1042   | 5500                | 4 88                   | 12,800  | 13.0 |  |     |  |     |  |     |  |     |  |     |   |     |
| 1090   | 5750                | 5 33                   | 16,500  | 18.5 | 10,400   | 12  |  |     |  |     |  |     |  |     |   |     |
| 1136   | 6000                | 5 80                   | 18,800  | 23   | 15,700   | 19  |  |     |  |     |  |     |  |     |   |     |
| 1183   | 6250                | 6 30                   | 20,800  | 28   | 18,700   | 24  |  |     |  |     |  |     |  |     |   |     |
| 1230   | 6500                | 6 81                   | 22,400  | 34   | 20,800   | 30  | 13,900   | 20  |  |     |  |     |  |     |   |     |
| 1278   | 6750                | 7 34                   | 23,600  | 38   | 22,600   | 36  | 18,100   | 28  |  |     |  |     |  |     |   |     |
| 1325   | 7000                | 7 89                   | 25,000  | 44   | 24,200   | 42  | 21,000   | 34  |  |     |  |     |  |     |   |     |
| 1420   | 7500                | 9 06                   | 27,600  | 54   | 26,800   | 54  | 25,000   | 49  | 21,200   | 40  |  |     |  |     |   |     |
| 1514   | 8000                | 10 32                  | 29,800  | 66   | 29,400   | 66  | 28,000   | 62  | 26,000   | 58  | 21,600   | 46  |  |     |   |     |
| 1610   | 8500                | 11 63                  | 32,400  | 80   | 31,800   | 80  | 30,600   | 78  | 29,200   | 74  | 26,600   | 66  | 22,200   | 54  |   |     |
| 1700   | 9000                | 13 05                  | 34,800  | 94   | 34,200   | 94  | 33,200   | 94  | 31,800   | 92  | 30,400   | 86  | 27,800   | 78  | 23,400  | 64  |
| 1795   | 9500                | 14 53                  | 37,200  | 110  | 36,600   | 110 | 35,400   | 110 | 34,400   | 110 | 33,200   | 110 | 31,600   | 100 | 29,200  | 90  |
| 1894   | 10000               | 16.2                   |   |      | 39,000   | 130 | 38,000   | 130 | 37,000   | 130 | 35,800   | 130 | 34,800   | 125 | 33,200  | 115 |



Double Inlet

**No. 6 Multivane Fan — Design 2**

Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                   | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                   | H. P. |
|--------|------------------|------------------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|
|        |                  |                  | Static Pressure 1/2" Water .0722 ozs. per sq. inch  |       | Static Pressure 1/2" Water .145 ozs. per sq. inch   |       | Static Pressure 3/4" Water .217 ozs. per sq. inch   |       | Static Pressure 1 1/2" Water .289 ozs. per sq. inch |       | Static Pressure 2" Water .361 ozs. per sq. inch |       | Static Pressure 2 1/2" Water .434 ozs. per sq. inch |       | Static Pressure 3" Water .506 ozs. per sq. inch |       |
| 174    | 1050             | 0 179            | 3,500 0 13  |       |   |       |   |       |   |       |   |       |   |       |   |       |
| 199    | 1200             | 0 233            | 5,320 0 27  |       |   |       |   |       |   |       |   |       |   |       |   |       |
| 232    | 1400             | 0 316            | 6,700 0 46  |       |   |       |   |       |   |       |   |       |   |       |   |       |
| 266    | 1600             | 0 412            | 8,000 0 65  |       | 6,600 0 58  |       |   |       |   |       |   |       |   |       |   |       |
| 298    | 1800             | 0 520            | 9,220 0 95  |       | 8,300 0 95  |       | 5,440 0 60  |       |   |       |   |       |   |       |   |       |
| 332    | 2000             | 0 645            |   |       | 9,680 1 35  |       | 8,500 1 20  |       |   |       |   |       |   |       |   |       |
| 365    | 2200             | 0 780            |   |       | 11,000 1 8  |       | 10,100 1 75   |       | 8,560 1 4   |       |   |       |   |       |   |       |
| 398    | 2400             | 0 930            |   |       | 12,300 2 3  |       | 11,400 2 3  |       | 10,600 2 1  |       | 8,660 1 7                                       |       |   |       |   |       |
| 431    | 2600             | 1 09             |   |       | 13,500 3  |       | 12,800 3 0  |       | 12,100 2 9  |       | 11,100 2 6                                      |       | 8,960 2 1   |       |   |       |
| 464    | 2800             | 1 26             |   |       |   |       | 14,100 3 7  |       | 13,100 3 7  |       | 12,800 3 5                                      |       | 11,700 3 1  |       | 9,440 2 5                                       |       |
| 498    | 3000             | 1 45             |   |       |   |       | 15,300 4 5  |       | 14,700 4 5  |       | 14,200 4 5                                      |       | 13,500 4 3  |       | 12,400 3 8                                      |       |
| 530    | 3200             | 1 65             |   |       |   |       | 16,500 5 6  |       | 16,000 5 6  |       | 15,500 5 6                                      |       | 14,900 5 4  |       | 14,300 5 1                                      |       |
| 564    | 3400             | 1 86             |   |       |   |       |   |       | 17,300 6 5  |       | 16,700 6 5                                      |       | 16,200 6 5  |       | 15,800 6 5                                      |       |
| 597    | 3600             | 2 10             |   |       |   |       |   |       | 18,500 7 9  |       | 18,000 7 9                                      |       | 17,500 7 9  |       | 17,100 7 9                                      |       |
| 630    | 3800             | 2 32             |   |       |   |       |   |       |   |       | 19,300 9 5                                      |       | 18,900 9 5  |       | 18,400 9 5                                      |       |
| 663    | 4000             | 2 58             |   |       |   |       |   |       |   |       | 20,400 11                                       |       | 20,200 11 0   |       | 19,600 11 0                                     |       |
| 696    | 4200             | 2 85             |   |       |   |       |   |       |   |       |   |       | 21,400 12 5   |       | 21,000 12 5                                     |       |
| 729    | 4400             | 3 13             |   |       |   |       |   |       |   |       |   |       | 22,600 14 5   |       | 22,200 14 5                                     |       |
| 763    | 4600             | 3 41             |   |       |   |       |   |       |   |       |   |       |   |       | 23,400 16 5                                     |       |
| 796    | 4800             | 3 70             |   |       |   |       |   |       |   |       |   |       |   |       | 24,800 20                                       |       |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 ozs. per sq. inch     |       | Static Pressure 1 1/4" Water .723 ozs. per sq. inch |       | Static Pressure 1 1/2" Water .878 ozs. per sq. inch |       | Static Pressure 1 3/4" Water 1.01 ozs. per sq. inch |       | Static Pressure 2" Water 1.16 ozs. per sq. inch |       | Static Pressure 2 1/2" Water 1.45 ozs. per sq. inch |       | Static Pressure 3" Water 1.73 ozs. per sq. inch |       |
| 498    | 3000             | 1 45             | 10,300 3 1  |       |   |       |   |       |   |       |   |       |   |       |   |       |
| 530    | 3200             | 1 65             | 13,100 4 6  |       |   |       |   |       |   |       |   |       |   |       |   |       |
| 564    | 3400             | 1 86             | 15,000 6 1  |       | 12,300 4 8  |       |   |       |   |       |   |       |   |       |   |       |
| 597    | 3600             | 2 10             | 16,600 7 7  |       | 14,900 6 7  |       | 11,200 5 0  |       |   |       |   |       |   |       |   |       |
| 630    | 3800             | 2 32             | 17,900 9 2  |       | 16,900 8 5  |       | 14,600 7 2  |       |   |       |   |       |   |       |   |       |
| 663    | 4000             | 2 58             | 19,200 11 0   |       | 18,300 10 5   |       | 16,900 9 4  |       | 14,200 7 7  |       |   |       |   |       |   |       |
| 696    | 4200             | 2 85             | 20,600 12 5   |       | 19,800 12 0   |       | 18,700 12   |       | 17,100 10 5   |       | 13,700 8 3                                      |       |   |       |   |       |
| 729    | 4400             | 3 13             | 22,000 14 5   |       | 21,000 14 5   |       | 20,200 14   |       | 19,100 13 0   |       | 17,100 11 5                                     |       |   |       |   |       |
| 763    | 4600             | 3 41             | 23,200 16 5   |       | 22,400 16 5   |       | 21,600 16   |       | 20,800 15 5   |       | 19,100 14                                       |       | 13,000 9 4  |       |   |       |
| 796    | 4800             | 3 70             | 24,400 19   |       | 23,600 19   |       | 23,000 19   |       | 22,400 18   |       | 21,200 17                                       |       | 17,300 13 5   |       |   |       |
| 828    | 5000             | 4 05             | 25,600 21   |       | 25,000 21   |       | 24,200 21   |       | 23,600 21   |       | 22,600 20                                       |       | 20,000 17   |       | 13,200 11 5                                     |       |
| 870    | 5250             | 4 41             | 26,400 25   |       | 26,400 25   |       | 25,800 25   |       | 25,200 25   |       | 24,600 24                                       |       | 22,600 22   |       | 18,900 18                                       |       |
| 911    | 5500             | 4 88             | 28,000 28   |       | 28,000 28   |       | 27,400 28   |       | 26,800 28   |       | 26,200 28                                       |       | 24,800 27   |       | 22,400 23                                       |       |
| 953    | 5750             | 5 33             | 29,600 32   |       | 29,600 32   |       | 29,000 32   |       | 28,400 32   |       | 27,800 32                                       |       | 26,600 32   |       | 21,800 29                                       |       |
| 995    | 6000             | 5 80             |   |       |   |       | 30,600 36   |       | 30,000 36   |       | 29,400 36                                       |       | 28,400 36   |       | 26,800 34                                       |       |
| 1037   | 6250             | 6 30             |   |       |   |       |   |       | 31,500 41   |       | 31,000 41                                       |       | 30,000 41   |       | 28,800 40                                       |       |
| 1078   | 6500             | 6 81             |   |       |   |       |   |       | 33,200 46   |       | 32,600 46                                       |       | 31,600 46   |       | 30,600 46                                       |       |
| 1120   | 6750             | 7 34             |   |       |   |       |   |       | 34,600 52   |       | 34,200 52                                       |       | 33,200 52   |       | 32,200 52                                       |       |
| 1161   | 7000             | 7 89             |   |       |   |       |   |       |   |       | 35,800 58                                       |       | 34,800 58   |       | 33,800 58                                       |       |
| 1213   | 7500             | 9 06             |   |       |   |       |   |       |   |       |   |       | 38,000 72   |       | 37,000 72                                       |       |
| 1328   | 8000             | 10 32            |   |       |   |       |   |       |   |       |   |       |   |       | 40,200 86                                       |       |
| 1410   | 8500             | 11 63            |   |       |   |       |   |       |   |       |   |       |   |       | 43,400 105                                      |       |
| 1490   | 9000             | 13 05            |   |       |   |       |   |       |   |       |   |       |   |       | 46,400 125                                      |       |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 3 1/2" Water 2.02 ozs. per sq. inch |       | Static Pressure 4" Water 2.31 ozs. per sq. inch     |       | Static Pressure 5" Water 2.89 ozs. per sq. inch     |       | Static Pressure 6" Water 3.47 ozs. per sq. inch     |       | Static Pressure 7" Water 4.05 ozs. per sq. inch |       | Static Pressure 8" Water 4.63 ozs. per sq. inch     |       | Static Pressure 9" Water 5.2 ozs. per sq. inch  |       |
| 911    | 5500             | 4 88             | 16,800 17 5   |       |   |       |   |       |   |       |   |       |   |       |   |       |
| 953    | 5750             | 5 33             | 21,600 24   |       | 13,700 16   |       |   |       |   |       |   |       |   |       |   |       |
| 995    | 6000             | 5 80             | 24,800 31   |       | 20,600 25   |       |   |       |   |       |   |       |   |       |   |       |
| 1037   | 6250             | 6 30             | 27,400 37   |       | 24,600 31   |       |   |       |   |       |   |       |   |       |   |       |
| 1078   | 6500             | 6 81             | 29,200 44   |       | 27,400 39   |       | 18,200 27   |       |   |       |   |       |   |       |   |       |
| 1120   | 6750             | 7 34             | 31,000 50   |       | 29,600 47   |       | 23,800 36   |       |   |       |   |       |   |       |   |       |
| 1161   | 7000             | 7 89             | 32,800 58   |       | 31,600 54   |       | 27,600 44   |       |   |       |   |       |   |       |   |       |
| 1213   | 7500             | 9 06             | 36,000 72   |       | 35,200 70   |       | 32,800 64   |       | 27,800 51   |       |   |       |   |       |   |       |
| 1328   | 8000             | 10 32            | 39,200 86   |       | 38,600 86   |       | 36,600 82   |       | 34,000 76   |       | 28,200 60                                       |       |   |       |   |       |
| 1410   | 8500             | 11 63            | 42,400 105  |       | 41,600 105  |       | 40,200 100  |       | 38,200 98   |       | 35,000 88                                       |       | 29,200 72   |       |   |       |
| 1490   | 9000             | 13 05            | 45,600 125  |       | 44,800 125  |       | 43,600 125  |       | 41,600 120  |       | 39,800 112                                      |       | 36,600 100  |       | 30,800 84                                       |       |
| 1575   | 9500             | 14 53            | 48,800 145  |       | 48,000 175  |       | 46,600 145  |       | 45,200 145  |       | 43,600 140                                      |       | 41,600 135  |       | 38,200 116                                      |       |
| 1660   | 10000            | 16 20            |   |       | 51,200 170  |       | 50,000 170  |       | 48,600 170  |       | 47,000 160                                      |       | 45,600 165  |       | 43,600 152                                      |       |

Double Inlet

## No. 6½ Multivane Fan—Design 2

Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M. H. P. Static Pressure 1/8" Water .0722 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1/4" Water .145 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 3/8" Water .217 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1/2" Water .289 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 5/8" Water .361 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 3/4" Water .434 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 7/8" Water .506 ozs. per sq. inch |
|--------|------------------|------------------|--|---|---|---|---|---|---|
| 154    | 1050             | 0 179            | 4,440 0 17   |   |   |   |   |   |   |
| 177    | 1200             | 0 233            | 6,820 0.34   |   |   |   |   |   |   |
| 206    | 1400             | 0 316            | 8,580 0.59   |   |   |   |   |   |   |
| 236    | 1600             | 0 412            | 10,260 0 84  | 8,460 0.74  |   |   |   |   |   |
| 265    | 1800             | 0 520            | 11,800 1 2   | 10,600 1 20   | 6,960 0 77  |   |   |   |   |
| 294    | 2000             | 0 645            |  | 12,400 1 75   | 10,900 1 5  |   |   |   |   |
| 324    | 2200             | 0 780            |  | 14,100 2 3  | 13,000 2 3  | 11,000 1 8  |   |   |   |
| 354    | 2400             | 0 930            |  | 15,700 3 0  | 14,700 3 0  | 13,600 2 7  | 11,100 2 2  |   |   |
| 383    | 2600             | 1 09             |  | 17,200 3 8  | 16,300 3 8  | 15,500 3 7  | 14,200 3 3  | 11,500 2 6  |   |
| 412    | 2800             | 1 26             |  |   | 18,000 4 7  | 17,200 4 7  | 16,400 4 5  | 15,000 4 0  | 12,000 3 2  |
| 442    | 3000             | 1 45             |  |   | 19,600 5 8  | 18,800 5 8  | 18,100 5 8  | 17,300 5 5  | 15,800 4 9  |
| 472    | 3200             | 1 65             |  |   | 21,200 7 1  | 20,400 7 1  | 19,800 7 1  | 19,100 7 0  | 18,200 6 5  |
| 500    | 3400             | 1 86             |  |   |   | 22,200 8 4  | 21,400 8 4  | 20,800 8 4  | 20,200 8 4  |
| 530    | 3600             | 2 10             |  |   |   | 23,600 10   | 23,000 10 0   | 22,400 10   | 21,800 10 0   |
| 558    | 3800             | 2 32             |  |   |   |   | 24,800 11 8   | 24,200 12   | 23,600 12 0   |
| 590    | 4000             | 2 58             |  |   |   |   | 26,200 13 8   | 25,800 14   | 25,200 14 0   |
| 619    | 4200             | 2 85             |  |   |   |   |   | 27,400 16   | 26,800 16 0   |
| 648    | 4400             | 3 13             |  |   |   |   |   | 28,800 18   | 28,400 18 5   |
| 677    | 4600             | 3 41             |  |   |   |   |   |   | 30,000 21   |
| 707    | 4800             | 3 7              |  |   |   |   |   |   | 31,600 24   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 ozs. per sq. inch                        | Static Pressure 1 1/4" Water .723 ozs. per sq. inch                   | Static Pressure 1 1/2" Water .878 ozs. per sq. inch                   | Static Pressure 1 3/4" Water 1.01 ozs. per sq. inch                   | Static Pressure 2" Water 1.16 ozs. per sq. inch                       | Static Pressure 2 1/2" Water 1.45 ozs. per sq. inch                   | Static Pressure 3" Water 1.73 ozs. per sq. inch                       |
| 412    | 3000             | 1 45             | 13,200 4 0   |   |   |   |   |   |   |
| 472    | 3200             | 1 65             | 16,800 5 9   |   |   |   |   |   |   |
| 500    | 3400             | 1 86             | 19,200 7 8   | 15,700 6 1  |   |   |   |   |   |
| 530    | 3600             | 2 10             | 21,200 9 9   | 19,100 8 5  | 14,400 6 4  |   |   |   |   |
| 558    | 3800             | 2 32             | 23,000 12 0  | 21,600 11 0   | 18,800 9 2  |   |   |   |   |
| 590    | 4000             | 2 58             | 24,600 14 0  | 23,400 13 0   | 21,600 12   | 18,200 9 8  |   |   |   |
| 619    | 4200             | 2 85             | 26,200 16 0  | 25,200 16 0   | 24,000 15   | 21,800 13 0   | 17,600 10 5   |   |   |
| 648    | 4400             | 3 13             | 28,000 18 5  | 27,000 18 5   | 26,000 18   | 24,400 16 5   | 22,000 14   |   |   |
| 677    | 4600             | 3 41             | 29,600 21  | 28,800 21   | 27,800 21   | 26,800 20   | 24,800 18   | 16,600 12   |   |
| 707    | 4800             | 3 70             | 31,200 24  | 30,200 24   | 29,400 24   | 28,600 23   | 27,200 22   | 22,200 17   |   |
| 736    | 5000             | 4 05             | 32,800 27  | 31,800 27   | 31,000 27   | 30,200 27   | 29,000 26   | 25,800 22   | 16,900 14 5   |
| 774    | 5250             | 4 44             |  | 34,000 32   | 33,200 32   | 32,200 32   | 31,400 31   | 29,000 28   | 24,200 22   |
| 810    | 5500             | 4 88             |  | 35,800 36   | 35,200 36   | 34,200 36   | 33,400 36   | 31,800 34   | 28,600 30   |
| 847    | 5750             | 5 33             |  | 37,800 41   | 37,000 41   | 36,400 41   | 35,600 41   | 34,200 40   | 31,800 37   |
| 885    | 6000             | 5 80             |  |   | 39,200 46   | 38,400 46   | 37,600 46   | 36,200 46   | 34,200 44   |
| 920    | 6250             | 6 30             |  |   |   | 40,400 52   | 39,800 52   | 38,400 52   | 36,800 52   |
| 957    | 6500             | 6 81             |  |   |   | 42,400 60   | 41,600 60   | 40,400 60   | 39,200 58   |
| 995    | 6750             | 7 34             |  |   |   | 44,400 66   | 43,800 66   | 42,400 66   | 41,200 66   |
| 1030   | 7000             | 7 89             |  |   |   |   | 45,600 74   | 44,600 74   | 43,400 74   |
| 1098   | 7500             | 9 06             |  |   |   |   |   | 48,600 92   | 47,400 92   |
| 1170   | 8000             | 10 32            |  |   |   |   |   |   | 51,400 110  |
| 1244   | 8500             | 11 63            |  |   |   |   |   |   | 55,400 130  |
| 1318   | 9000             | 13 05            |  |   |   |   |   |   | 59,400 160  |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 3 1/2" Water 2.02 ozs. per sq. inch                    | Static Pressure 4" Water 2.31 ozs. per sq. inch                       | Static Pressure 5" Water 2.89 ozs. per sq. inch                       | Static Pressure 6" Water 3.47 ozs. per sq. inch                       | Static Pressure 7" Water 4.05 ozs. per sq. inch                       | Static Pressure 8" Water 4.63 ozs. per sq. inch                       | Static Pressure 9" Water 5.2 ozs. per sq. inch                        |
| 810    | 5500             | 4 88             | 21,600 22  |   |   |   |   |   |   |
| 847    | 5750             | 5 33             | 27,800 31  | 17,600 20   |   |   |   |   |   |
| 885    | 6000             | 5 80             | 31,600 39  | 26,400 32   |   |   |   |   |   |
| 920    | 6250             | 6 30             | 35,000 48  | 31,400 40   |   |   |   |   |   |
| 957    | 6500             | 6 81             | 37,600 56  | 35,000 50   | 23,400 34   |   |   |   |   |
| 995    | 6750             | 7 34             | 39,800 64  | 37,800 60   | 30,400 47   |   |   |   |   |
| 1030   | 7000             | 7 89             | 42,000 74  | 40,400 70   | 35,200 56   |   |   |   |   |
| 1098   | 7500             | 9 06             | 46,200 92  | 45,000 90   | 42,000 82   | 35,600 68   |   |   |   |
| 1170   | 8000             | 10 32            | 50,200 110   | 49,100 110  | 47,000 101  | 43,600 96   | 36,200 78   |   |   |
| 1244   | 8500             | 11 63            | 54,100 130   | 53,400 130  | 51,400 132  | 49,000 125  | 44,800 110  | 37,400 92   |   |
| 1318   | 9000             | 13 05            | 58,400 160   | 57,400 160  | 55,800 160  | 53,400 155  | 51,000 145  | 46,800 130  | 39,400 105  |
| 1390   | 9500             | 14 53            | 62,400 185   | 61,600 185  | 59,600 185  | 58,000 185  | 56,000 180  | 53,200 170  | 49,000 150  |
| 1463   | 10000            | 16 2             |  | 65,900 220  | 63,800 220  | 62,200 220  | 60,200 210  | 58,100 210  | 56,000 195  |

Double Inlet

## No. 7 Multivane Fan—Design 2

Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M. H. P. Static Pressure 1/8" Water .0722 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1/4" Water .145 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 3/8" Water .217 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1/2" Water .289 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 5/8" Water .361 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 3/4" Water .434 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 7/8" Water .506 ozs. per sq. inch |
|--------|------------------|------------------|--|---|---|---|---|---|---|
| 141    | 1050             | 0 179            | 5,160 0 20   |   |   |   |   |   |   |
| 159    | 1200             | 0 233            | 8,300 0 12   |   |   |   |   |   |   |
| 186    | 1400             | 0 316            | 10,500 0 72  |   |   |   |   |   |   |
| 212    | 1600             | 0 412            | 12,500 1 0   | 10,300 0 91   |   |   |   |   |   |
| 239    | 1800             | 0 520            | 14,100 1 5   | 13,000 1 50   | 8,360 0 94  |   |   |   |   |
| 265    | 2000             | 0 645            |  | 15,100 2 10   | 13,300 1 85   |   |   |   |   |
| 292    | 2200             | 0 78             |  | 17,100 2 80   | 15,000 2 8  | 13,400 2 2  |   |   |   |
| 318    | 2400             | 0 93             |  | 19,200 2 16   | 15,800 3 6  | 16,500 3 3  | 13,500 2 7  |   |   |
| 345    | 2600             | 1 09             |  | 21,000 4 6  | 19,900 4 6  | 18,900 4 5  | 17,300 4 1  | 11,000 3 2  |   |
| 371    | 2800             | 1 26             |  |   | 22,000 5 8  | 21,000 5 8  | 20,000 5 5  | 18,300 4 9  | 14,700 3 9  |
| 398    | 3000             | 1 45             |  |   | 23,800 7 1  | 23,000 7 1  | 22,200 7 0  | 21,000 3 7  | 19,300 6 0  |
| 424    | 3200             | 1 65             |  |   | 25,800 8 7  | 25,000 8 7  | 24,200 8 7  | 23,200 8 5  | 22,200 8 0  |
| 451    | 3400             | 1 86             |  |   |   | 27,000 10 0   | 26,200 10   | 25,100 10 0   | 24,600 10 0   |
| 478    | 3600             | 2 10             |  |   |   | 28,800 12 5   | 28,000 12   | 27,400 12 5   | 26,600 12 9   |
| 504    | 3800             | 2 32             |  |   |   |   | 30,000 15   | 29,400 15 0   | 28,600 15 0   |
| 530    | 4000             | 2 58             |  |   |   |   | 32,000 17   | 31,400 17 0   | 30,600 17 0   |
| 557    | 4200             | 2 85             |  |   |   |   |   | 33,400 19 5   | 32,600 19 5   |
| 584    | 4400             | 3 13             |  |   |   |   |   | 35,200 22   | 34,400 22   |
| 610    | 4600             | 3 41             |  |   |   |   |   |   | 36,600 26   |
| 637    | 4800             | 3 7              |  |   |   |   |   |   | 38,600 26   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 ozs. per sq. inch                        | Static Pressure 1 1/4" Water .723 ozs. per sq. inch                   | Static Pressure 1 1/2" Water .878 ozs. per sq. inch                   | Static Pressure 1 3/4" Water 1.01 ozs. per sq. inch                   | Static Pressure 2" Water 1.18 ozs. per sq. inch                       | Static Pressure 2 1/2" Water 1.45 ozs. per sq. inch                   | Static Pressure 3" Water 1.73 ozs. per sq. inch                       |
| 398    | 3000             | 1 45             | 16,100 4 9   |   |   |   |   |   |   |
| 424    | 3200             | 1 65             | 20,600 7 2   |   |   |   |   |   |   |
| 451    | 3400             | 1 86             | 23,400 9 5   | 19,200 7 5  |   |   |   |   |   |
| 478    | 3600             | 2 10             | 25,000 12 0  | 23,200 10 5   | 17,500 7 8  |   |   |   |   |
| 504    | 3800             | 2 32             | 28,000 14 0  | 26,400 13 0   | 22,800 11 0   |   |   |   |   |
| 530    | 4000             | 2 58             | 29,800 17 0  | 28,600 16 5   | 26,400 14 6   | 22,200 12   |   |   |   |
| 557    | 4200             | 2 85             | 32,000 19 5  | 30,800 19   | 29,200 18 5   | 26,600 16   | 21,400 13   |   |   |
| 584    | 4400             | 3 13             | 34,200 22  | 32,800 22   | 31,600 22   | 29,800 20   | 26,800 18   |   |   |
| 610    | 4600             | 3 41             | 36,200 26  | 35,000 26   | 33,800 25   | 32,600 24   | 30,200 22   | 20,200 14 5   |   |
| 637    | 4800             | 3 70             | 38,000 29  | 36,800 29   | 35,800 29   | 34,800 28   | 33,000 27   | 27,000 21   |   |
| 663    | 5000             | 4 05             | 40,000 33  | 38,800 33   | 38,000 33   | 36,800 33   | 35,800 32   | 31,400 27   | 20,600 18   |
| 697    | 5250             | 4 44             |  | 41,400 39   | 40,400 39   | 39,400 39   | 38,200 38   | 35,400 34   | 29,400 27   |
| 730    | 5500             | 4 88             |  | 43,600 44   | 42,800 44   | 41,800 44   | 40,800 44   | 38,800 41   | 34,800 36   |
| 763    | 5750             | 5 33             |  | 46,000 50   | 45,200 50   | 44,400 50   | 43,400 50   | 41,600 49   | 38,800 45   |
| 796    | 6000             | 5 80             |  |   |   | 46,800 56   | 46,000 56   | 44,200 56   | 42,000 51   |
| 829    | 6250             | 6 30             |  |   |   | 49,200 61   | 48,400 64   | 46,800 64   | 44,800 62   |
| 862    | 6500             | 6 81             |  |   |   | 51,800 72   | 50,800 72   | 49,200 72   | 47,600 72   |
| 895    | 6750             | 7 34             |  |   |   | 54,000 82   | 53,200 82   | 51,800 82   | 50,200 82   |
| 928    | 7000             | 7 89             |  |   |   |   | 55,600 90   | 54,400 90   | 52,800 90   |
| 995    | 7500             | 9 06             |  |   |   |   |   | 59,200 110  | 57,600 110  |
| 1060   | 8000             | 10 32            |  |   |   |   |   |   | 62,600 130  |
| 1125   | 8500             | 11 63            |  |   |   |   |   |   | 67,600 160  |
| 1192   | 9000             | 13 05            |  |   |   |   |   |   | 72,400 190  |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 3 1/2" Water 2.62 ozs. per sq. inch                    | Static Pressure 4" Water 2.31 ozs. per sq. inch                       | Static Pressure 5" Water 2.89 ozs. per sq. inch                       | Static Pressure 6" Water 3.47 ozs. per sq. inch                       | Static Pressure 7" Water 4.05 ozs. per sq. inch                       | Static Pressure 8" Water 4.63 ozs. per sq. inch                       | Static Pressure 9" Water 5.2 ozs. per sq. inch                        |
| 730    | 5500             | 4 88             | 26,200 27  |   |   |   |   |   |   |
| 763    | 5750             | 5 33             | 33,800 38  | 21,400 25   |   |   |   |   |   |
| 796    | 6000             | 5 80             | 38,000 48  | 32,200 39   |   |   |   |   |   |
| 829    | 6250             | 6 30             | 42,600 58  | 38,200 49   |   |   |   |   |   |
| 862    | 6500             | 6 81             | 45,600 70  | 42,800 62   | 28,400 42   |   |   |   |   |
| 895    | 6750             | 7 34             | 48,400 78  | 46,000 74   | 37,200 56   |   |   |   |   |
| 928    | 7000             | 7 89             | 51,200 90  | 49,200 86   | 43,000 70   |   |   |   |   |
| 995    | 7500             | 9 06             | 56,400 110   | 54,800 110  | 51,200 100  | 43,400 82   |   |   |   |
| 1060   | 8000             | 10 32            | 61,200 135   | 60,200 135  | 57,400 130  | 53,000 115  | 44,000 94   |   |   |
| 1125   | 8500             | 11 63            | 66,200 160   | 65,000 160  | 62,600 160  | 59,600 150  | 54,600 135  | 45,600 110  |   |
| 1192   | 9000             | 13 05            | 71,000 190   | 70,000 190  | 68,000 190  | 65,000 190  | 62,200 175  | 57,200 160  | 48,000 130  |
| 1260   | 9500             | 14 53            | 76,000 230   | 75,000 230  | 72,600 230  | 70,600 230  | 68,200 220  | 64,800 200  | 50,600 185  |
| 1326   | 10000            | 16 2             |  | 79,600 270  | 77,800 270  | 75,800 270  | 73,400 260  | 71,200 250  | 68,000 240  |

Double Inlet

## No. 8 Multivane Fan—Design 2

Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| Volume C.F.M. and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances |                  |                  |   |   |   |   |   |   |   |   |  |   |  |   |  |  |        |               |     |        |               |     |       |               |  |       |  |
|--|------------------|------------------|---|---|---|---|---|---|---|---|--|---|--|---|--|--|--------|---------------|-----|--------|---------------|-----|-------|---------------|--|-------|--|
| R.P.M.   | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.                                       |   | H. P.   | Volume C.F.M.                                       |   | H. P.   | Volume C.F.M.                                       |   | H. P.  | Volume C.F.M.                                       |  | H. P.   | Volume C.F.M.                                      |  | H. P.  | Volume C.F.M. |     | H. P.  | Volume C.F.M. |     | H. P. | Volume C.F.M. |  | H. P. |  |
|  |                  |                  | Static Pressure 1/2" Water .0722 ozs. per sq. inch  | Static Pressure 3/4" Water .145 ozs. per sq. inch   |   | Static Pressure 1" Water .217 ozs. per sq. inch     | Static Pressure 1 1/4" Water .289 ozs. per sq. inch |   | Static Pressure 1 1/2" Water .361 ozs. per sq. inch | Static Pressure 1 3/4" Water .434 ozs. per sq. inch |  | Static Pressure 2" Water .506 ozs. per sq. inch     |  |   |  |  |        |               |     |        |               |     |       |               |  |       |  |
| 116  | 1050             | 0.179            | 7,920   | 0.30  |   |   |   |   |   |   |  |   |  |   |  |  |        |               |     |        |               |     |       |               |  |       |  |
| 133  | 1200             | 0.233            | 12,100  | 0.61  |   |   |   |   |   |   |  |   |  |   |  |  |        |               |     |        |               |     |       |               |  |       |  |
| 155  | 1400             | 0.316            | 15,200  | 1.05  |   |   |   |   |   |   |  |   |  |   |  |  |        |               |     |        |               |     |       |               |  |       |  |
| 177  | 1600             | 0.412            | 18,100  | 1.5   |   | 14,900  | 1.3   |   |   |   |  |   |  |   |  |  |        |               |     |        |               |     |       |               |  |       |  |
| 199  | 1800             | 0.520            | 20,800  | 2.2   |   | 18,800  | 2.2   |   | 12,300  | 1.35  |  |   |  |   |  |  |        |               |     |        |               |     |       |               |  |       |  |
| 221  | 2000             | 0.615            |   |   |   | 21,800  | 3.1   |   | 19,200  | 2.7   |  |   |  |   |  |  |        |               |     |        |               |     |       |               |  |       |  |
| 243  | 2200             | 0.780            |   |   |   | 24,800  | 4.1   |   | 23,000  | 4.0   |  | 19,400  | 3.2  |   |  |  |        |               |     |        |               |     |       |               |  |       |  |
| 265  | 2400             | 0.930            |   |   |   | 27,800  | 5.2   |   | 25,800  | 5.2   |  | 24,000  | 4.8  |   | 19,600   | 3.8  |        |               |     |        |               |     |       |               |  |       |  |
| 287  | 2600             | 1.09             |   |   |   |   | 30,400  | 6.7   | 28,800  | 6.7   |  | 27,400  | 6.5  |   | 25,200   | 5.9  |        | 20,200        | 4.7 |        |               |     |       |               |  |       |  |
| 309  | 2800             | 1.26             |   |   |   |   |   |   | 31,800  | 8.3   |  | 30,400  | 8.3  |   | 29,000   | 8.0  |        | 26,400        | 7.1 |        | 21,400        | 5.6 |       |               |  |       |  |
| 332  | 3000             | 1.45             |   |   |   |   |   |   | 34,600  | 10.0  |  | 33,200  | 10.0   |   | 32,000   | 10.0   |        | 30,100        | 9.7 |        | 28,000        | 8.6 |       |               |  |       |  |
| 354  | 3200             | 1.65             |   |   |   |   |   |   | 37,400  | 12.5  |  | 36,000  | 12.5   |   | 35,000   | 12.5   |        | 33,800        | 12  |        | 32,200        | 12  |       |               |  |       |  |
| 376  | 3400             | 1.86             |   |   |   |   |   |   |   |   |  | 39,000  | 15   |   | 37,800   | 15   |        | 36,600        | 15  |        | 35,600        | 15  |       |               |  |       |  |
| 398  | 3600             | 2.10             |   |   |   |   |   |   |   |   |  | 41,000  | 18   |   | 40,600   | 18   |        | 39,600        | 18  |        | 38,600        | 18  |       |               |  |       |  |
| 420  | 3800             | 2.32             |   |   |   |   |   |   |   |   |  |   |  |   | 43,600   | 21   |        | 42,800        | 21  |        | 41,600        | 21  |       |               |  |       |  |
| 442  | 4000             | 2.58             |   |   |   |   |   |   |   |   |  |   |  |   | 46,400   | 24   |        | 45,600        | 24  |        | 44,400        | 24  |       |               |  |       |  |
| 464  | 4200             | 2.85             |   |   |   |   |   |   |   |   |  |   |  |   |  |  | 48,400 | 28            |     | 47,400 | 28            |     |       |               |  |       |  |
| 486  | 4400             | 3.13             |   |   |   |   |   |   |   |   |  |   |  |   |  |  | 51,000 | 33            |     | 50,200 | 33            |     |       |               |  |       |  |
| 508  | 4600             | 3.41             |   |   |   |   |   |   |   |   |  |   |  |   |  |  |        |               |     | 53,000 | 37            |     |       |               |  |       |  |
| 530  | 4800             | 3.7              |   |   |   |   |   |   |   |   |  |   |  |   |  |  |        |               |     | 56,000 | 42            |     |       |               |  |       |  |
| R.P.M.   | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 ozs. per sq. inch     | Static Pressure 1 1/4" Water .723 ozs. per sq. inch | Static Pressure 1 1/2" Water .878 ozs. per sq. inch | Static Pressure 1 3/4" Water 1.01 ozs. per sq. inch | Static Pressure 2" Water 1.16 ozs. per sq. inch     | Static Pressure 2 1/2" Water 1.45 ozs. per sq. inch | Static Pressure 3" Water 1.73 ozs. per sq. inch     | Static Pressure 3 1/2" Water 2.02 ozs. per sq. inch | Static Pressure 4" Water 2.31 ozs. per sq. inch    | Static Pressure 4 1/2" Water 2.69 ozs. per sq. inch | Static Pressure 5" Water 3.47 ozs. per sq. inch    | Static Pressure 5 1/2" Water 4.05 ozs. per sq. inch | Static Pressure 6" Water 4.63 ozs. per sq. inch    | Static Pressure 6 1/2" Water 5.2 ozs. per sq. inch |        |               |     |        |               |     |       |               |  |       |  |
| 332  | 3000             | 1.45             | 23,400  | 7.1   |   |   |   |   |   |   |  |   |  |   |  |  |        |               |     |        |               |     |       |               |  |       |  |
| 354  | 3200             | 1.65             | 29,800  | 10.5  |   |   |   |   |   |   |  |   |  |   |  |  |        |               |     |        |               |     |       |               |  |       |  |
| 376  | 3400             | 1.86             | 34,000  | 14.0  | 27,800  | 11  |   |   |   |   |  |   |  |   |  |  |        |               |     |        |               |     |       |               |  |       |  |
| 398  | 3600             | 2.10             | 37,600  | 17.5  | 33,800  | 15  | 25,400  | 11  |   |   |  |   |  |   |  |  |        |               |     |        |               |     |       |               |  |       |  |
| 420  | 3800             | 2.32             | 40,600  | 21  | 38,200  | 19  | 33,200  | 16  |   |   |  |   |  |   |  |  |        |               |     |        |               |     |       |               |  |       |  |
| 442  | 4000             | 2.58             | 43,400  | 24  | 41,400  | 24  | 38,200  | 21  | 32,000  | 17.5  |  |   |  |   |  |  |        |               |     |        |               |     |       |               |  |       |  |
| 464  | 4200             | 2.85             | 46,400  | 28  | 44,600  | 28  | 42,400  | 27  | 38,600  | 23  | 31,000   | 18.5  |  |   |  |  |        |               |     |        |               |     |       |               |  |       |  |
| 486  | 4400             | 3.13             | 49,600  | 33  | 47,600  | 33  | 45,800  | 32  | 43,200  | 29  | 38,800   | 26  |  |   |  |  |        |               |     |        |               |     |       |               |  |       |  |
| 508  | 4600             | 3.41             | 52,400  | 37  | 50,800  | 37  | 49,000  | 37  | 47,200  | 35  | 44,000   | 32  | 29,200   | 21  |  |  |        |               |     |        |               |     |       |               |  |       |  |
| 530  | 4800             | 3.70             | 55,000  | 42  | 53,400  | 42  | 52,000  | 42  | 50,400  | 41  | 48,000   | 38  | 39,000   | 30  |  |  |        |               |     |        |               |     |       |               |  |       |  |
| 552  | 5000             | 4.05             | 57,800  | 48  | 56,400  | 48  | 55,000  | 48  | 53,200  | 48  | 51,200   | 46  | 45,400   | 39  | 29,800   | 26   |        |               |     |        |               |     |       |               |  |       |  |
| 580  | 5250             | 4.44             |   |   | 60,000  | 56  | 58,600  | 56  | 56,800  | 56  | 55,400   | 54  | 51,200   | 49  | 42,800   | 40   |        |               |     |        |               |     |       |               |  |       |  |
| 608  | 5500             | 4.88             |   |   | 63,200  | 64  | 62,000  | 64  | 60,400  | 64  | 58,200   | 60  | 56,200   | 60  | 50,400   | 52   |        |               |     |        |               |     |       |               |  |       |  |
| 636  | 5750             | 5.33             |   |   | 66,800  | 72  | 65,600  | 72  | 64,400  | 72  | 63,000   | 72  | 60,400   | 72  | 56,200   | 66   |        |               |     |        |               |     |       |               |  |       |  |
| 663  | 6000             | 5.80             |   |   |   |   | 69,000  | 82  | 67,800  | 82  | 66,600   | 82  | 64,000   | 82  | 60,800   | 76   |        |               |     |        |               |     |       |               |  |       |  |
| 691  | 6250             | 6.30             |   |   |   |   |   |   | 71,200  | 92  | 70,200   | 92  | 67,600   | 92  | 65,000   | 90   |        |               |     |        |               |     |       |               |  |       |  |
| 718  | 6500             | 6.81             |   |   |   |   |   |   | 75,000  | 105   | 73,600   | 105   | 71,200   | 105   | 69,200   | 105  |        |               |     |        |               |     |       |               |  |       |  |
| 746  | 6750             | 7.34             |   |   |   |   |   |   | 78,400  | 115   | 77,200   | 115   | 75,000   | 115   | 72,800   | 115  |        |               |     |        |               |     |       |               |  |       |  |
| 774  | 7000             | 7.89             |   |   |   |   |   |   |   |   |  |   | 80,600   | 130   | 78,800   | 130  |        |               |     |        |               |     |       |               |  |       |  |
| 830  | 7500             | 9.06             |   |   |   |   |   |   |   |   |  |   |  |   | 85,800   | 160  |        |               |     |        |               |     |       |               |  |       |  |
| 885  | 8000             | 10.32            |   |   |   |   |   |   |   |   |  |   |  |   |  |  |        |               |     |        |               |     |       |               |  |       |  |
| 938  | 8500             | 11.63            |   |   |   |   |   |   |   |   |  |   |  |   |  |  |        |               |     |        |               |     |       |               |  |       |  |
| 996  | 9000             | 13.05            |   |   |   |   |   |   |   |   |  |   |  |   |  |  |        |               |     |        |               |     |       |               |  |       |  |
| R.P.M.   | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 3 1/2" Water 2.02 ozs. per sq. inch | Static Pressure 4" Water 2.31 ozs. per sq. inch     | Static Pressure 4 1/2" Water 2.69 ozs. per sq. inch | Static Pressure 5" Water 3.47 ozs. per sq. inch     | Static Pressure 5 1/2" Water 4.05 ozs. per sq. inch | Static Pressure 6" Water 4.63 ozs. per sq. inch     | Static Pressure 6 1/2" Water 5.2 ozs. per sq. inch  | Static Pressure 7" Water 5.8 ozs. per sq. inch      | Static Pressure 7 1/2" Water 6.4 ozs. per sq. inch | Static Pressure 8" Water 7.0 ozs. per sq. inch      | Static Pressure 8 1/2" Water 7.6 ozs. per sq. inch | Static Pressure 9" Water 8.2 ozs. per sq. inch      | Static Pressure 9 1/2" Water 8.8 ozs. per sq. inch | Static Pressure 10" Water 9.4 ozs. per sq. inch    |        |               |     |        |               |     |       |               |  |       |  |
| 608  | 5500             | 4.88             | 38,000  | 39  |   |   |   |   |   |   |  |   |  |   |  |  |        |               |     |        |               |     |       |               |  |       |  |
| 636  | 5750             | 5.33             | 49,000  | 54  | 31,000  | 36  |   |   |   |   |  |   |  |   |  |  |        |               |     |        |               |     |       |               |  |       |  |
| 663  | 6000             | 5.80             | 55,800  | 70  | 46,600  | 56  |   |   |   |   |  |   |  |   |  |  |        |               |     |        |               |     |       |               |  |       |  |
| 691  | 6250             | 6.30             | 61,800  | 84  | 55,400  | 70  |   |   |   |   |  |   |  |   |  |  |        |               |     |        |               |     |       |               |  |       |  |
| 718  | 6500             | 6.81             | 66,200  | 100   | 61,800  | 88  | 41,200  | 60  |   |   |  |   |  |   |  |  |        |               |     |        |               |     |       |               |  |       |  |
| 746  | 6750             | 7.34             | 70,200  | 115   | 66,800  | 110   | 53,800  | 82  |   |   |  |   |  |   |  |  |        |               |     |        |               |     |       |               |  |       |  |
| 774  | 7000             | 7.89             | 74,200  | 130   | 71,400  | 125   | 62,400  | 100   |   |   |  |   |  |   |  |  |        |               |     |        |               |     |       |               |  |       |  |
| 830  | 7500             | 9.06             | 81,600  | 160   | 79,600  | 160   | 74,000  | 145   | 63,000  | 120   |  |   |  |   |  |  |        |               |     |        |               |     |       |               |  |       |  |
| 885  | 8000             | 10.32            | 88,800  | 195   | 87,200  | 195   | 83,000  | 185   | 76,800  | 170   | 64,000   | 135   |  |   |  |  |        |               |     |        |               |     |       |               |  |       |  |
| 938  | 8500             | 11.63            | 96,000  | 230   | 94,200  | 230   | 90,800  | 230   | 86,400  | 220   | 79,200   | 195   | 66,200   | 160   |  |  |        |               |     |        |               |     |       |               |  |       |  |
| 996  | 9000             | 13.05            | 103,000   | 280   | 101,000   | 280   | 98,400  | 280   | 94,200  | 270   | 90,200   | 260   | 82,800   | 230   | 69,600   | 190  |        |               |     |        |               |     |       |               |  |       |  |
| 1050   | 9500             | 14.53            | 110,000   | 330   | 109,000   | 330   | 105,000   | 330   | 102,000   | 330   | 98,800   | 320   | 94,000   | 300   | 86,400   | 270  |        |               |     |        |               |     |       |               |  |       |  |
| 1105   | 10000            | 16.20            |   |   | 116,000   | 380   | 113,000   | 380   | 110,000   | 380   |  |   | 106,000  | 380   | 98,600   | 340  |        |               |     |        |               |     |       |               |  |       |  |

Double Inlet

## No. 9 Multivane Fan — Design 2

Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.                                       | H. P.   | Volume C.F.M.                                       | H. P.   | Volume C.F.M.                                       | H. P.   | Volume C.F.M.                                   | H. P. | Volume C.F.M.                                     | H. P. | Volume C.F.M.                                     | H. P. | Volume C.F.M.                                     | H. P. |
|--------|------------------|------------------|---|---|---|---|---|---|---|-------|---|-------|---|-------|---|-------|
|        |                  |                  | Static Pressure 1/2" Water .0722 ozs. per sq. inch  |   | Static Pressure 1/2" Water .145 ozs. per sq. inch   |   | Static Pressure 3/4" Water .217 ozs. per sq. inch   |   | Static Pressure 1" Water .289 ozs. per sq. inch |       | Static Pressure 5/8" Water .361 ozs. per sq. inch |       | Static Pressure 3/4" Water .434 ozs. per sq. inch |       | Static Pressure 7/8" Water .506 ozs. per sq. inch |       |
| 99     | 1050             | 0 179            | 10,700  | 0 40  |   |   |   |   |   |       |   |       |   |       |   |       |
| 114    | 1200             | 0 233            | 16,300  | 0 82  |   |   |   |   |   |       |   |       |   |       |   |       |
| 133    | 1400             | 0 316            | 20,600  | 1 4   |   |   |   |   |   |       |   |       |   |       |   |       |
| 152    | 1600             | 0 412            | 24,600  | 2 0   | 20,200  | 1 8   |   |   |   |       |   |       |   |       |   |       |
| 171    | 1800             | 0 520            | 28,200  | 2 9   | 25,400  | 2 9   | 16,600  | 1 85  |   |       |   |       |   |       |   |       |
| 190    | 2000             | 0 645            |   |   | 29,600  | 4 2   | 26,000  | 3 6   |   |       |   |       |   |       |   |       |
| 208    | 2200             | 0 780            |   |   | 33,600  | 5 5   | 31,000  | 5 4   | 26,200  | 4 3   |   |       |   |       |   |       |
| 228    | 2400             | 0 930            |   |   | 37,600  | 7 1   | 35,000  | 7 1   | 32,400  | 6 5   | 26,600  | 5 2   |   |       |   |       |
| 246    | 2600             | 1 09             |   |   | 41,200  | 9 1   | 39,000  | 9 1   | 37,000  | 8 8   | 34,000  | 8     | 27,400  | 6 3   |   |       |
| 265    | 2800             | 1 26             |   |   |   |   | 43,000  | 11  | 41,000  | 11 2  | 39,200  | 11    | 35,800  | 9 6   | 28,800  | 7 6   |
| 284    | 3000             | 1 45             |   |   |   |   | 46,800  | 14  | 45,000  | 14    | 43,400  | 14    | 41,200  | 13 0  | 37,800  | 12 0  |
| 303    | 3200             | 1 65             |   |   |   |   | 50,600  | 17  | 48,800  | 17    | 47,400  | 17    | 45,600  | 16 5  | 43,600  | 15 5  |
| 322    | 3400             | 1 86             |   |   |   |   |   |   | 52,800  | 20    | 51,200  | 20    | 49,600  | 20    | 48,400  | 20    |
| 341    | 3600             | 2 10             |   |   |   |   |   |   | 56,600  | 24    | 55,000  | 24    | 53,600  | 24    | 52,200  | 24    |
| 360    | 3800             | 2 32             |   |   |   |   |   |   |   |       | 59,000  | 29    | 57,800  | 29    | 56,200  | 29    |
| 379    | 4000             | 2 58             |   |   |   |   |   |   |   |       | 62,000  | 33    | 61,600  | 33    | 60,000  | 33    |
| 398    | 4200             | 2 85             |   |   |   |   |   |   |   |       |   |       | 65,400  | 38    | 64,000  | 38    |
| 417    | 4400             | 3 13             |   |   |   |   |   |   |   |       |   |       | 69,000  | 44    | 67,800  | 44    |
| 436    | 4600             | 3 41             |   |   |   |   |   |   |   |       |   |       |   |       | 71,800  | 50    |
| 455    | 4800             | 3 70             |   |   |   |   |   |   |   |       |   |       |   |       | 75,600  | 58    |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 ozs. per sq. inch     | Static Pressure 1 1/2" Water .723 ozs. per sq. inch | Static Pressure 1 3/4" Water .878 ozs. per sq. inch | Static Pressure 2" Water 1.01 ozs. per sq. inch | Static Pressure 2 1/4" Water 1.16 ozs. per sq. inch | Static Pressure 2 1/2" Water 1.45 ozs. per sq. inch | Static Pressure 3" Water 1.73 ozs. per sq. inch |       |   |       |   |       |   |       |
| 284    | 3000             | 1 45             | 31,600  | 9 6   |   |   |   |   |   |       |   |       |   |       |   |       |
| 303    | 3200             | 1 65             | 40,200  | 14 0  |   |   |   |   |   |       |   |       |   |       |   |       |
| 322    | 3400             | 1 86             | 46,000  | 18 5  | 37,600  | 14 5  |   |   |   |       |   |       |   |       |   |       |
| 341    | 3600             | 2 10             | 50,800  | 24  | 45,800  | 20  | 34,200  | 15  |   |       |   |       |   |       |   |       |
| 360    | 3800             | 2 32             | 55,000  | 28  | 51,000  | 26  | 44,800  | 22  |   |       |   |       |   |       |   |       |
| 379    | 4000             | 2 58             | 58,600  | 33  | 56,000  | 32  | 51,600  | 29  | 43,400  | 23 5  |   |       |   |       |   |       |
| 398    | 4200             | 2 85             | 62,800  | 38  | 60,400  | 38  | 57,200  | 36  | 52,200  | 32    | 42,000  | 25    |   |       |   |       |
| 417    | 4400             | 3 13             | 67,000  | 44  | 64,400  | 44  | 62,000  | 43  | 58,400  | 40    | 52,400  | 35    |   |       |   |       |
| 436    | 4600             | 3 41             | 70,800  | 50  | 68,600  | 50  | 66,200  | 50  | 63,800  | 48    | 59,400  | 44    | 39,600  | 29    |   |       |
| 455    | 4800             | 3 70             | 74,400  | 58  | 72,400  | 58  | 70,200  | 58  | 68,200  | 56    | 64,800  | 52    | 52,800  | 41    |   |       |
| 474    | 5000             | 4 05             | 78,200  | 66  | 76,200  | 66  | 74,400  | 66  | 72,000  | 64    | 69,400  | 62    | 61,400  | 52    | 40,400  | 35    |
| 498    | 5250             | 4 41             |   |   | 81,000  | 76  | 79,200  | 76  | 77,000  | 76    | 75,000  | 71    | 69,400  | 66    | 57,800  | 54    |
| 522    | 5500             | 4 88             |   |   | 85,600  | 86  | 84,000  | 86  | 81,800  | 86    | 80,000  | 86    | 76,000  | 82    | 68,200  | 70    |
| 545    | 5750             | 5 33             |   |   | 90,400  | 98  | 88,600  | 98  | 87,000  | 98    | 85,200  | 98    | 81,600  | 96    | 76,000  | 88    |
| 569    | 6000             | 5 80             |   |   |   |   | 93,600  | 110   | 91,600  | 110   | 90,000  | 110   | 86,000  | 110   | 82,200  | 105   |
| 593    | 6250             | 6 30             |   |   |   |   |   |   | 96,400  | 125   | 95,000  | 125   | 91,600  | 125   | 88,000  | 125   |
| 616    | 6500             | 6 81             |   |   |   |   |   |   | 102,000   | 140   | 99,600  | 140   | 95,400  | 140   | 93,600  | 140   |
| 640    | 6750             | 7 34             |   |   |   |   |   |   | 106,000   | 160   | 105,000   | 160   | 102,000   | 160   | 98,600  | 160   |
| 663    | 7000             | 7 89             |   |   |   |   |   |   |   |       | 109,000   | 180   | 106,000   | 180   | 104,000   | 180   |
| 710    | 7500             | 9 06             |   |   |   |   |   |   |   |       |   |       | 116,000   | 220   | 113,000   | 220   |
| 758    | 8000             | 10 32            |   |   |   |   |   |   |   |       |   |       |   |       | 123,000   | 270   |
| 806    | 8500             | 11 63            |   |   |   |   |   |   |   |       |   |       |   |       | 133,000   | 320   |
| 852    | 9000             | 13 05            |   |   |   |   |   |   |   |       |   |       |   |       | 142,000   | 380   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 3 1/2" Water 2.02 ozs. per sq. inch | Static Pressure 4" Water 2.31 ozs. per sq. inch     | Static Pressure 5" Water 2.89 ozs. per sq. inch     | Static Pressure 6" Water 3.47 ozs. per sq. inch | Static Pressure 7" Water 4.05 ozs. per sq. inch     | Static Pressure 8" Water 4.63 ozs. per sq. inch     | Static Pressure 9" Water 5.2 ozs. per sq. inch  |       |   |       |   |       |   |       |
| 522    | 5500             | 4 88             | 51,400  | 54  |   |   |   |   |   |       |   |       |   |       |   |       |
| 545    | 5750             | 5 33             | 66,200  | 74  | 42,000  | 48  |   |   |   |       |   |       |   |       |   |       |
| 569    | 6000             | 5 80             | 75,600  | 94  | 63,000  | 78  |   |   |   |       |   |       |   |       |   |       |
| 593    | 6250             | 6 30             | 83,600  | 110   | 75,000  | 96  |   |   |   |       |   |       |   |       |   |       |
| 616    | 6500             | 6 81             | 89,600  | 135   | 83,600  | 120   | 55,800  | 82  |   |       |   |       |   |       |   |       |
| 640    | 6750             | 7 34             | 95,000  | 155   | 90,600  | 145   | 72,800  | 110   |   |       |   |       |   |       |   |       |
| 663    | 7000             | 7 89             | 101,000   | 175   | 96,600  | 170   | 84,200  | 135   |   |       |   |       |   |       |   |       |
| 710    | 7500             | 9 06             | 110,000   | 220   | 108,000   | 215   | 109,000   | 195   | 85,200  | 165   |   |       |   |       |   |       |
| 758    | 8000             | 10 32            | 120,000   | 270   | 118,000   | 270   | 112,000   | 250   | 104,000   | 230   | 86,400  | 190   |   |       |   |       |
| 806    | 8500             | 11 63            | 130,000   | 320   | 127,000   | 320   | 123,000   | 310   | 117,000   | 300   | 107,000   | 270   | 89,400  | 220   |   |       |
| 852    | 9000             | 13 05            | 140,000   | 380   | 137,000   | 380   | 133,000   | 380   | 127,000   | 370   | 122,000   | 350   | 112,000   | 310   | 94,000  | 260   |
| 900    | 9500             | 14 53            | 149,000   | 440   | 147,000   | 440   | 142,000   | 440   | 138,000   | 440   | 134,000   | 430   | 127,000   | 400   | 117,000   | 360   |
| 950    | 10000            | 16 20            |   |   | 156,000   | 520   | 153,000   | 520   | 149,000   | 520   | 144,000   | 520   | 140,000   | 500   | 134,000   | 470   |

Double Inlet

## No. 10 Multivane Fan—Design 2

Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M. H. P. Static Pressure 1/2" Water .0722 oza. per sq. inch | Volume C.F.M. H. P. Static Pressure 1/4" Water .145 oza. per sq. inch | Volume C.F.M. H. P. Static Pressure 3/8" Water .217 oza. per sq. inch | Volume C.F.M. H. P. Static Pressure 1/2" Water .289 oza. per sq. inch | Volume C.F.M. H. P. Static Pressure 3/4" Water .361 oza. per sq. inch | Volume C.F.M. H. P. Static Pressure 1" Water .434 oza. per sq. inch | Volume C.F.M. H. P. Static Pressure 1 1/4" Water .506 oza. per sq. inch |
|--------|------------------|------------------|--|---|---|---|---|---|---|
| 87     | 1050             | 0 179            | 14,000 0 52  |   |   |   |   |   |   |
| 100    | 1200             | 0 233            | 21,400 1 10  |   |   |   |   |   |   |
| 116    | 1400             | 0 316            | 27,000 1 85  |   |   |   |   |   |   |
| 133    | 1600             | 0 412            | 32,200 2 6   | 26,600 2 3  |   |   |   |   |   |
| 149    | 1800             | 0 520            | 37,000 3 8   | 33,400 3 8  | 21,800 2 4  |   |   |   |   |
| 166    | 2000             | 0 645            |  | 38,800 5 5  | 34,200 4 7  |   |   |   |   |
| 183    | 2200             | 0 78             |  | 41,000 7 2  | 40,600 7 1  | 34,400 5 6  |   |   |   |
| 199    | 2400             | 0 93             |  | 49,400 9 3  | 46,000 9 3  | 42,600 8 6  | 34,800 6 8  |   |   |
| 216    | 2600             | 1 09             |  | 54,000 12   | 51,200 12   | 48,000 11 5   | 44,600 10 5   | 36,000 8 3  |   |
| 232    | 2800             | 1 26             |  |   | 56,400 15   | 53,800 15   | 51,400 14   | 47,000 12 5   | 37,800 10 0   |
| 249    | 3000             | 1 45             |  |   | 61,400 18   | 59,000 18   | 56,800 18   | 54,000 17   | 49,600 15 5   |
| 266    | 3200             | 1 65             |  |   | 66,400 22   | 64,000 22   | 62,200 22   | 59,800 22   | 57,200 20   |
| 282    | 3400             | 1 86             |  |   |   | 69,200 26   | 67,200 26   | 65,200 26   | 63,400 26   |
| 299    | 3600             | 2 10             |  |   |   | 71,000 32   | 72,200 32   | 70,400 32   | 68,400 32   |
| 315    | 3800             | 2 32             |  |   |   |   | 77,400 38   | 75,800 38   | 73,800 38   |
| 332    | 4000             | 2 58             |  |   |   |   | 82,200 43   | 80,800 43   | 78,800 43   |
| 349    | 4200             | 2 85             |  |   |   |   |   | 85,800 50   | 84,000 50   |
| 365    | 4400             | 3 13             |  |   |   |   |   | 99,200 58   | 89,000 58   |
| 382    | 4600             | 3 41             |  |   |   |   |   |   | 94,200 66   |
| 399    | 4800             | 3 7              |  |   |   |   |   |   | 99,200 76   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 oza. per sq. inch                        | Static Pressure 1 1/4" Water .723 oza. per sq. inch                   | Static Pressure 1 1/2" Water .878 oza. per sq. inch                   | Static Pressure 1 3/4" Water 1.01 oza. per sq. inch                   | Static Pressure 2" Water 1.16 oza. per sq. inch                       | Static Pressure 2 1/2" Water 1.45 oza. per sq. inch                 | Static Pressure 3" Water 1.73 oza. per sq. inch                         |
| 249    | 3000             | 1 45             | 41,100 12 5  |   |   |   |   |   |   |
| 266    | 3200             | 1 65             | 52,800 18 5  |   |   |   |   |   |   |
| 282    | 3400             | 1 86             | 60,400 24  | 49,400 19   |   |   |   |   |   |
| 299    | 3600             | 2 10             | 66,600 31  | 60,000 27   | 45,000 20   |   |   |   |   |
| 315    | 3800             | 2 32             | 72,000 37  | 67,600 34   | 58,800 29   |   |   |   |   |
| 332    | 4000             | 2 58             | 77,000 43  | 73,400 42   | 67,800 38   | 57,000 31   |   |   |   |
| 349    | 4200             | 2 85             | 82,100 50  | 79,200 49   | 75,000 47   | 68,400 42   | 55,200 33   |   |   |
| 365    | 4400             | 3 13             | 87,800 58  | 84,600 58   | 81,400 56   | 76,600 52   | 68,800 46   |   |   |
| 382    | 4600             | 3 41             | 93,000 66  | 90,000 66   | 86,800 66   | 83,800 64   | 78,000 58   | 52,000 38   |   |
| 399    | 4800             | 3 70             | 97,600 76  | 94,800 76   | 92,000 76   | 89,600 74   | 85,000 68   | 69,200 54   |   |
| 415    | 5000             | 4 05             | 103,000 86   | 100,000 86  | 97,400 86   | 94,400 86   | 91,000 82   | 80,600 70   | 52,800 46   |
| 436    | 5250             | 4 44             |  | 106,000 98  | 104,000 98  | 101,000 98  | 98,400 96   | 91,200 86   | 76,000 70   |
| 456    | 5500             | 4 88             |  | 112,000 110   | 110,000 110   | 107,000 110   | 105,000 110   | 99,800 110  | 89,600 92   |
| 477    | 5750             | 5 33             |  | 119,000 130   | 116,000 130   | 114,000 130   | 112,000 130   | 107,000 130   | 99,800 115  |
| 498    | 6000             | 5 80             |  |   | 123,000 145   | 120,000 145   | 118,000 145   | 114,000 145   | 108,000 135   |
| 519    | 6250             | 6 30             |  |   |   | 127,200 165   | 125,000 165   | 120,000 165   | 116,000 160   |
| 540    | 6500             | 6 81             |  |   |   | 133,000 185   | 131,000 185   | 126,000 185   | 123,000 185   |
| 560    | 6750             | 7 34             |  |   |   | 139,000 210   | 137,000 210   | 133,000 210   | 129,000 210   |
| 581    | 7000             | 7 89             |  |   |   |   | 143,000 230   | 140,000 230   | 136,000 230   |
| 622    | 7500             | 9 06             |  |   |   |   |   | 152,000 290   | 148,000 290   |
| 661    | 8000             | 10 32            |  |   |   |   |   |   | 161,000 350   |
| 705    | 8500             | 11 63            |  |   |   |   |   |   | 174,000 420   |
| 746    | 9000             | 13 05            |  |   |   |   |   |   | 186,000 500   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 3 1/2" Water 2.02 oza. per sq. inch                    | Static Pressure 4" Water 2.31 oza. per sq. inch                       | Static Pressure 5" Water 2.89 oza. per sq. inch                       | Static Pressure 6" Water 3.47 oza. per sq. inch                       | Static Pressure 7" Water 4.05 oza. per sq. inch                       | Static Pressure 8" Water 4.63 oza. per sq. inch                     | Static Pressure 9" Water 5.2 oza. per sq. inch                          |
| 156    | 5500             | 4 88             | 67,600 70  |   |   |   |   |   |   |
| 477    | 5750             | 5 33             | 87,000 98  | 55,000 64   |   |   |   |   |   |
| 498    | 6000             | 5 80             | 99,200 125   | 82,600 100  |   |   |   |   |   |
| 519    | 6250             | 6 30             | 106,000 160  | 98,400 125  |   |   |   |   |   |
| 540    | 6500             | 6 81             | 118,000 180  | 110,000 160   | 73,200 110  |   |   |   |   |
| 560    | 6750             | 7 34             | 125,000 200  | 119,000 190   | 95,600 150  |   |   |   |   |
| 581    | 7000             | 7 89             | 132,000 230  | 127,000 220   | 111,000 180   |   |   |   |   |
| 622    | 7500             | 9 06             | 145,000 290  | 141,000 280   | 132,000 260   | 112,000 210   |   |   |   |
| 661    | 8000             | 10 32            | 158,000 350  | 155,000 350   | 147,000 330   | 137,000 300   | 107,000 240   |   |   |
| 705    | 8500             | 11 63            | 172,000 420  | 167,000 420   | 161,000 410   | 154,000 390   | 141,000 350   |   |   |
| 746    | 9000             | 13 05            | 183,000 500  | 180,000 500   | 175,000 500   | 167,000 480   | 160,000 450   | 117,400 290   |   |
| 788    | 9500             | 14 53            | 196,000 580  | 193,000 580   | 187,000 580   | 182,000 580   | 175,000 570   | 147,000 410   | 124,000 340   |
| 830    | 10000            | 16 2             |  | 206,000 680   | 200,000 680   | 195,000 680   | 189,000 680   | 167,000 520   | 154,000 470   |
|        |                  |                  |  |   |   |   |   | 183,000 650   | 175,000 610   |

Double Inlet

## No. 11 Multivane Fan — Design 2

Double Width

When Discharging Air at 65 F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M. H. P. Static Pressure 1" Water .0722 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1" Water .145 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1 1/2" Water .217 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 2" Water .289 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 2 1/2" Water .361 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 3" Water .434 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 3 1/2" Water .506 ozs. per sq. inch |
|--------|------------------|------------------|--|---|---|---|---|---|---|
| 77     | 1050             | 0 179            | 17,500 0 66  |   |   |   |   |   |   |
| 88     | 1200             | 0 233            | 26,800 1 4   |   |   |   |   |   |   |
| 103    | 1400             | 0 316            | 33,800 2 3   |   |   |   |   |   |   |
| 118    | 1600             | 0 412            | 40,100 3 3   | 33,400 2 9  |   |   |   |   |   |
| 132    | 1800             | 0 520            | 46,600 4 8   | 41,800 4 8  | 27,400 3 0  |   |   |   |   |
| 147    | 2000             | 0 645            |  | 48,800 6 9  | 42,800 6 0  |   |   |   |   |
| 162    | 2200             | 0 780            |  | 55,400 9 1  | 51,200 8 9  |   |   |   |   |
| 177    | 2400             | 0 930            |  | 62,000 12   | 57,600 12 0   | 43,200 7 1  |   |   |   |
| 191    | 2600             | 1 09             |  | 68,000 15   |   | 53,400 11 0   | 43,800 8 6  |   |   |
| 206    | 2800             | 1 26             |  |   | 64,400 15 0   | 61,000 14 5   | 56,000 13   | 45,200 10 5   |   |
| 221    | 3000             | 1 45             |  |   | 71,000 18 5   | 67,600 18 5   | 64,400 18   | 59,200 16   | 47,600 12 5   |
| 235    | 3200             | 1 65             |  |   | 77,200 23   | 74,400 23   | 71,400 23   | 68,000 22   | 62,400 19   |
| 250    | 3400             | 1 86             |  |   | 83,400 28   | 80,600 28   | 78,200 28   | 75,200 27   | 72,000 26   |
| 265    | 3600             | 2 10             |  |   |   | 87,000 33   | 84,400 33   | 81,800 33   | 79,600 33   |
| 279    | 3800             | 2 32             |  |   |   | 93,000 40   | 90,600 40   | 88,400 40   | 86,200 40   |
| 294    | 4000             | 2 58             |  |   |   |   | 97,400 48   | 95,400 48   | 92,800 48   |
| 309    | 4200             | 2 85             |  |   |   |   | 103,000 54  | 102,000 54  | 99,000 54   |
| 324    | 4400             | 3 13             |  |   |   |   |   | 108,000 62  | 106,000 62  |
| 338    | 4600             | 3 41             |  |   |   |   |   | 111,000 72  | 112,000 72  |
| 353    | 4800             | 3 70             |  |   |   |   |   |   | 118,000 84  |
|        |                  |                  |  |   |   |   |   |   | 125,000 94  |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 ozs. per sq. inch                      | Static Pressure 1 1/4" Water .723 ozs. per sq. inch                 | Static Pressure 1 1/2" Water .878 ozs. per sq. inch                     | Static Pressure 1 3/4" Water 1.01 ozs. per sq. inch                 | Static Pressure 2" Water 1.16 ozs. per sq. inch                         | Static Pressure 2 1/2" Water 1.45 ozs. per sq. inch                 | Static Pressure 3" Water 1.73 ozs. per sq. inch                         |
| 221    | 3000             | 1 45             | 52,000 16  |   |   |   |   |   |   |
| 235    | 3200             | 1 65             | 66,400 23  |   |   |   |   |   |   |
| 250    | 3400             | 1 86             | 76,000 31  | 62,000 24   |   |   |   |   |   |
| 265    | 3600             | 2 10             | 83,800 39  | 75,400 34   | 56,600 25   |   |   |   |   |
| 279    | 3800             | 2 32             | 90,600 46  | 85,200 43   | 74,000 36   |   |   |   |   |
| 294    | 4000             | 2 58             | 96,600 54  | 92,400 54   | 85,000 47   | 72,000 39   |   |   |   |
| 309    | 4200             | 2 85             | 104,000 62   | 99,600 62   | 94,400 60   | 86,000 52   | 69,400 42   |   |   |
| 324    | 4400             | 3 13             | 111,000 72   | 106,000 72  | 102,000 70  | 96,000 66   | 86,400 58   |   |   |
| 338    | 4600             | 3 41             | 117,000 84   | 113,000 84  | 109,000 82  | 105,000 78  | 98,000 72   | 65,400 47   |   |
| 353    | 4800             | 3 70             | 123,000 94   | 119,000 94  | 116,000 94  | 113,000 92  | 107,000 86  | 87,000 68   |   |
| 368    | 5000             | 4 05             | 129,000 110  | 126,000 110   | 122,000 110   | 119,000 110   | 115,000 105   | 101,000 88  | 66,400 58   |
| 386    | 5250             | 4 44             |  | 134,000 125   | 131,000 125   | 127,000 125   | 124,000 120   | 115,000 110   | 95,400 88   |
| 404    | 5500             | 4 88             |  | 141,000 140   | 139,000 140   | 135,000 140   | 132,000 140   | 125,000 130   | 113,000 115   |
| 423    | 5750             | 5 33             |  | 149,000 165   | 146,000 165   | 143,000 165   | 141,000 165   | 135,000 160   | 125,000 145   |
| 441    | 6000             | 5 80             |  |   |   | 151,000 185   | 149,000 185   | 143,000 185   | 136,000 170   |
| 459    | 6250             | 6 30             |  |   |   | 159,000 210   | 157,000 210   | 151,000 200   | 145,000 200   |
| 478    | 6500             | 6 81             |  |   |   | 167,000 230   | 164,000 230   | 159,000 230   | 154,000 230   |
| 496    | 6750             | 7 34             |  |   |   | 175,000 260   | 172,000 260   | 167,000 260   | 163,000 260   |
| 514    | 7000             | 7 89             |  |   |   |   | 180,000 290   | 176,000 290   | 171,000 290   |
| 550    | 7500             | 9 06             |  |   |   |   |   | 191,000 360   | 186,000 360   |
| 587    | 8000             | 10 32            |  |   |   |   |   |   | 202,000 440   |
| 624    | 8500             | 11 63            |  |   |   |   |   |   | 218,000 520   |
| 660    | 9000             | 13 05            |  |   |   |   |   |   | 234,000 620   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 3 1/2" Water 2.02 ozs. per sq. inch                  | Static Pressure 4" Water 2.31 ozs. per sq. inch                     | Static Pressure 4 1/2" Water 2.59 ozs. per sq. inch                     | Static Pressure 5" Water 3.47 ozs. per sq. inch                     | Static Pressure 6" Water 4.05 ozs. per sq. inch                         | Static Pressure 7" Water 4.63 ozs. per sq. inch                     | Static Pressure 8" Water 5.2 ozs. per sq. inch                          |
| 404    | 5500             | 4 88             | 84,800 88  |   |   |   |   |   |   |
| 423    | 5750             | 5 33             | 109,000 125  | 69,200 80   |   |   |   |   |   |
| 441    | 6000             | 5 80             | 125,000 155  | 104,000 130   |   |   |   |   |   |
| 459    | 6250             | 6 30             | 138,000 190  | 124,000 160   |   |   |   |   |   |
| 478    | 6500             | 6 81             | 148,000 230  | 138,000 200   | 92,000 135  |   |   |   |   |
| 496    | 6750             | 7 34             | 157,000 260  | 149,000 240   | 120,000 185   |   |   |   |   |
| 514    | 7000             | 7 89             | 166,000 290  | 160,000 280   | 139,000 220   |   |   |   |   |
| 550    | 7500             | 9 06             | 182,000 360  | 178,000 360   | 166,000 320   | 141,000 270   |   |   |   |
| 587    | 8000             | 10 32            | 198,000 440  | 195,000 440   | 185,000 420   | 172,000 380   | 142,000 310   |   |   |
| 624    | 8500             | 11 63            | 214,000 520  | 210,000 520   | 202,000 520   | 193,000 490   | 177,000 440   | 148,000 360   |   |
| 660    | 9000             | 13 05            | 230,000 620  | 226,000 620   | 220,000 620   | 210,000 610   | 202,000 570   | 185,000 510   | 155,000 390   |
| 697    | 9500             | 14 53            | 246,000 730  | 242,000 730   | 234,000 730   | 228,000 730   | 220,000 730   | 210,000 660   | 193,000 600   |
| 733    | 10000            | 16 20            |  | 258,000 860   | 252,000 860   | 246,000 860   | 238,000 850   | 230,000 820   | 220,000 770   |

Double Inlet

## No. 12 Multivane Fan—Design 2

Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M. H. P. Static Pressure 1/2" Water .0722 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1/2" Water .145 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1/2" Water .217 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1/2" Water .289 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1/2" Water .361 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1/2" Water .434 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1/2" Water .506 ozs. per sq. inch |
|--------|------------------|------------------|--|---|---|---|---|---|---|
| 70     | 1050             | 0 179            | 21,800 0 82  |   |   |   |   |   |   |
| 80     | 1200             | 0 233            | 33,200 1.7   |   |   |   |   |   |   |
| 93     | 1400             | 0 316            | 41,800 2.9   |   |   |   |   |   |   |
| 106    | 1600             | 0 412            | 50,000 4.1   |   |   |   |   |   |   |
| 120    | 1800             | 0 520            | 57,600 7.8   | 11,200 3.6  |   |   |   |   |   |
| 133    | 2000             | 0 645            |  | 51,800 6.0  | 34,000 3.8  |   |   |   |   |
| 146    | 2200             | 0 780            |  | 60,400 8.5  | 53,000 7.3  |   |   |   |   |
| 159    | 2400             | 0 930            |  | 68,400 11.0   | 63,200 11.0   | 53,400 8.8  |   |   |   |
| 173    | 2600             | 1 09             |  | 76,800 13.5   | 71,400 14.5   | 66,000 13   | 51,000 10.5   |   |   |
| 186    | 2800             | 1 26             |  | 84,000 18.5   | 79,600 18.5   | 75,600 18   | 69,400 16   | 55,800 13.0   |   |
| 199    | 3000             | 1 45             |  |   | 87,600 23   | 83,600 23   | 79,800 22   | 73,800 19.5   | 58,800 15.5   |
| 212    | 3200             | 1 65             |  |   | 95,400 28   | 91,800 28   | 88,200 28   | 84,000 27   | 77,000 24   |
| 226    | 3400             | 1 86             |  |   | 103,000 35  | 99,600 35   | 96,600 35   | 93,000 34   | 89,000 32   |
| 239    | 3600             | 2 10             |  |   |   | 108,000 41  | 104,000 41  | 101,000 41  | 98,400 41   |
| 252    | 3800             | 2 32             |  |   |   | 115,000 49  | 112,000 49  | 109,000 49  | 106,000 49  |
| 265    | 4000             | 2 58             |  |   |   |   | 120,000 60  | 118,000 60  | 115,000 60  |
| 279    | 4200             | 2 85             |  |   |   |   | 128,000 68  | 126,000 68  | 122,000 68  |
| 299    | 4400             | 3 13             |  |   |   |   |   | 133,000 78  | 131,000 78  |
| 305    | 4600             | 3 41             |  |   |   |   |   | 141,000 90  | 138,000 90  |
| 318    | 4800             | 3 70             |  |   |   |   |   |   | 146,000 104   |
|        |                  |                  |  |   |   |   |   |   | 154,000 116   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 ozs. per sq. inch                        | Static Pressure 1 1/4" Water .723 ozs. per sq. inch                   | Static Pressure 1 1/2" Water .878 ozs. per sq. inch                   | Static Pressure 1 3/4" Water 1.01 ozs. per sq. inch                   | Static Pressure 2" Water 1.16 ozs. per sq. inch                       | Static Pressure 2 1/2" Water 1.45 ozs. per sq. inch                   | Static Pressure 3" Water 1.73 ozs. per sq. inch                       |
| 199    | 3000             | 1 45             | 64,200 19.5  |   |   |   |   |   |   |
| 212    | 3200             | 1 65             | 82,000 29  |   |   |   |   |   |   |
| 226    | 3400             | 1 86             | 93,800 38  | 76,800 30   |   |   |   |   |   |
| 239    | 3600             | 2 10             | 104,000 48   | 93,200 42   | 70,000 31   |   |   |   |   |
| 252    | 3800             | 2 32             | 112,000 58   | 105,000 54  | 91,200 45   |   |   |   |   |
| 265    | 4000             | 2 58             | 120,000 68   | 114,000 66  | 105,000 58  | 88,600 48   |   |   |   |
| 279    | 4200             | 2 85             | 128,000 78   | 123,000 76  | 117,000 74  | 106,000 64  | 85,600 52   |   |   |
| 299    | 4400             | 3 13             | 137,000 90   | 131,000 90  | 126,000 88  | 119,000 80  | 107,000 70  |   |   |
| 305    | 4600             | 3 41             | 144,000 105  | 140,000 105   | 135,000 100   | 130,000 98  | 121,000 88  | 80,800 58   |   |
| 318    | 4800             | 3 70             | 152,000 115  | 147,000 115   | 143,000 115   | 139,000 110   | 132,000 110   | 108,000 84  |   |
| 332    | 5000             | 4 05             | 160,000 130  | 155,000 130   | 151,000 130   | 147,000 130   | 142,000 130   | 125,000 110   | 82,200 72   |
| 348    | 5250             | 4 44             |  | 165,000 150   | 162,000 150   | 157,000 150   | 153,000 150   | 142,000 135   | 118,000 110   |
| 365    | 5500             | 4 88             |  | 174,000 175   | 171,000 175   | 167,000 175   | 163,000 175   | 155,000 165   | 139,000 145   |
| 381    | 5750             | 5 33             |  | 184,000 200   | 181,000 200   | 177,000 200   | 174,000 200   | 166,000 195   | 155,000 180   |
| 398    | 6000             | 5 80             |  |   | 191,000 230   | 187,000 230   | 184,000 230   | 177,000 230   | 168,000 210   |
| 414    | 6250             | 6 30             |  |   |   | 197,000 250   | 194,000 250   | 187,000 250   | 180,000 250   |
| 431    | 6500             | 6 81             |  |   |   | 208,000 290   | 204,000 290   | 197,000 290   | 191,000 290   |
| 448    | 6750             | 7 34             |  |   |   | 216,000 320   | 214,000 320   | 208,000 320   | 200,000 320   |
| 464    | 7000             | 7 89             |  |   |   |   | 222,000 360   | 218,000 360   | 212,000 360   |
| 497    | 7500             | 9 06             |  |   |   |   |   | 236,000 440   | 230,000 440   |
| 531    | 8000             | 10.32            |  |   |   |   |   |   | 250,000 540   |
| 564    | 8500             | 11.63            |  |   |   |   |   |   | 270,000 650   |
| 597    | 9000             | 13.05            |  |   |   |   |   |   | 290,000 770   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 3 1/2" Water 2.02 ozs. per sq. inch                    | Static Pressure 4" Water 2.31 ozs. per sq. inch                       | Static Pressure 4 1/2" Water 2.89 ozs. per sq. inch                   | Static Pressure 5" Water 3.47 ozs. per sq. inch                       | Static Pressure 5 1/2" Water 4.05 ozs. per sq. inch                   | Static Pressure 6" Water 4.63 ozs. per sq. inch                       | Static Pressure 6 1/2" Water 5.2 ozs. per sq. inch                    |
| 365    | 5500             | 4 88             | 105,000 110  |   |   |   |   |   |   |
| 381    | 5750             | 5 33             | 135,000 150  | 85,600 100  |   |   |   |   |   |
| 398    | 6000             | 5 80             | 154,000 190  | 129,000 155   |   |   |   |   |   |
| 414    | 6250             | 6 30             | 170,000 230  | 153,000 195   |   |   |   |   |   |
| 431    | 6500             | 6 81             | 183,000 280  | 171,000 240   | 114,000 165   |   |   |   |   |
| 448    | 6750             | 7 34             | 194,000 320  | 185,000 290   | 148,000 230   |   |   |   |   |
| 464    | 7000             | 7 89             | 206,000 380  | 197,000 340   | 172,000 280   |   |   |   |   |
| 497    | 7500             | 9 06             | 226,000 440  | 220,000 440   | 204,000 400   | 174,000 330   |   |   |   |
| 531    | 8000             | 10.32            | 244,000 540  | 240,000 540   | 228,000 510   | 212,000 470   | 176,000 380   |   |   |
| 564    | 8500             | 11.63            | 266,000 650  | 260,000 650   | 250,000 640   | 238,000 610   | 218,000 540   | 182,400 450   |   |
| 597    | 9000             | 13.05            | 284,000 770  | 280,000 770   | 272,000 770   | 260,000 750   | 248,000 710   | 228,900 640   | 192,000 530   |
| 630    | 9500             | 14.53            | 304,000 900  | 300,000 900   | 290,000 900   | 282,000 900   | 272,000 880   | 260,000 820   | 238,000 740   |
| 664    | 10000            | 16.2             |  | 320,000 1060  | 312,000 1060  | 304,000 1060  | 294,000 1050  | 284,000 1020  | 272,000 950   |



Double Inlet

## No. 13 Multivane Fan—Design 2

Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                     | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                     | H. P. | Volume C.F.M.                                       | H. P. |
|--------|------------------|------------------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|
|        |                  |                  | Static Pressure 1/2" Water .0722 ozs. per sq. inch  |       | Static Pressure 1/2" Water .145 ozs. per sq. inch   |       | Static Pressure 3/4" Water .217 ozs. per sq. inch   |       | Static Pressure 1/2" Water .289 ozs. per sq. inch |       | Static Pressure 5/8" Water .361 ozs. per sq. inch   |       | Static Pressure 3/4" Water .434 ozs. per sq. inch |       | Static Pressure 7/8" Water .506 ozs. per sq. inch   |       |
| 63     | 1050             | 0 179            | 26,100  | 0 99  |   |       |   |       |   |       |   |       |   |       |   |       |
| 72     | 1200             | 0 233            | 40,400  | 2 00  |   |       |   |       |   |       |   |       |   |       |   |       |
| 84     | 1400             | 0 316            | 50,800  | 3 50  |   |       |   |       |   |       |   |       |   |       |   |       |
| 97     | 1600             | 0 412            | 60,600  | 4 95  | 50,000  | 4 4   |   |       |   |       |   |       |   |       |   |       |
| 109    | 1800             | 0 520            | 69,800  | 7 2   | 62,800  | 7 2   | 41,200  | 4 6   |   |       |   |       |   |       |   |       |
| 121    | 2000             | 0 645            |   |       | 73,200  | 10 5  | 64,400  | 8 9   |   |       |   |       |   |       |   |       |
| 133    | 2200             | 0 78             |   |       | 83,000  | 13 5  | 76,800  | 13 5  | 64,800  | 16 5  |   |       |   |       |   |       |
| 145    | 2400             | 0 93             |   |       | 93,000  | 17 5  | 86,600  | 17 5  | 80,200  | 16 0  | 65,600  | 13    |   |       |   |       |
| 157    | 2600             | 1 09             |   |       | 102,000   | 22    | 96,400  | 22    | 91,600  | 22    | 84,200  | 20    | 67,800  | 15 5  |   |       |
| 169    | 2800             | 1 26             |   |       |   |       | 106,000   | 28    | 101,000   | 28    | 96,600  | 27    | 88,600  | 24    | 71,400  | 19    |
| 181    | 3000             | 1 45             |   |       |   |       | 116,000   | 34    | 111,000   | 34    | 107,000   | 34    | 102,000   | 32    | 93,600  | 29    |
| 193    | 3200             | 1 65             |   |       |   |       | 125,000   | 42    | 121,000   | 42    | 117,000   | 42    | 113,000   | 41    | 108,000   | 39    |
| 205    | 3400             | 1 86             |   |       |   |       |   |       | 131,000   | 50    | 127,000   | 50    | 123,000   | 50    | 120,000   | 50    |
| 217    | 3600             | 2 10             |   |       |   |       |   |       | 140,000   | 60    | 136,000   | 60    | 133,000   | 60    | 129,000   | 60    |
| 229    | 3800             | 2 32             |   |       |   |       |   |       |   |       | 146,000   | 70    | 143,000   | 70    | 139,000   | 70    |
| 241    | 4000             | 2 58             |   |       |   |       |   |       |   |       | 155,000   | 82    | 152,000   | 82    | 149,000   | 82    |
| 253    | 4200             | 2 85             |   |       |   |       |   |       |   |       |   |       | 162,000   | 94    | 158,000   | 94    |
| 265    | 4400             | 3 13             |   |       |   |       |   |       |   |       |   |       | 171,000   | 108   | 168,000   | 110   |
| 277    | 4600             | 3 41             |   |       |   |       |   |       |   |       |   |       |   |       | 178,000   | 125   |
| 289    | 4800             | 3 7              |   |       |   |       |   |       |   |       |   |       |   |       | 187,000   | 140   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 ozs. per sq. inch     |       | Static Pressure 1 1/2" Water .723 ozs. per sq. inch |       | Static Pressure 1 3/4" Water .878 ozs. per sq. inch |       | Static Pressure 2" Water 1.01 ozs. per sq. inch   |       | Static Pressure 2 1/2" Water 1.16 ozs. per sq. inch |       | Static Pressure 3" Water 1.45 ozs. per sq. inch   |       | Static Pressure 3 1/2" Water 1.73 ozs. per sq. inch |       |
| 181    | 3000             | 1 45             | 78,000  | 24    |   |       |   |       |   |       |   |       |   |       |   |       |
| 193    | 3200             | 1 65             | 99,600  | 35    |   |       |   |       |   |       |   |       |   |       |   |       |
| 205    | 3400             | 1 86             | 114,000   | 46    | 93,200  | 36    |   |       |   |       |   |       |   |       |   |       |
| 217    | 3600             | 2 10             | 126,000   | 58    | 113,000   | 50    | 84,600  | 38    |   |       |   |       |   |       |   |       |
| 229    | 3800             | 2 32             | 136,000   | 70    | 128,000   | 64    | 111,000   | 54    |   |       |   |       |   |       |   |       |
| 241    | 4000             | 2 58             | 145,000   | 82    | 139,000   | 80    | 158,000   | 72    | 107,000   | 58    |   |       |   |       |   |       |
| 253    | 4200             | 2 85             | 155,000   | 94    | 149,000   | 94    | 142,000   | 90    | 129,000   | 78    | 104,000   | 62    |   |       |   |       |
| 265    | 4400             | 3 13             | 166,000   | 110   | 159,000   | 110   | 153,000   | 110   | 144,000   | 98    | 130,000   | 86    |   |       |   |       |
| 277    | 4600             | 3 41             | 175,000   | 125   | 170,000   | 125   | 164,000   | 125   | 158,000   | 115   | 147,000   | 110   | 98,000  | 72    |   |       |
| 289    | 4800             | 3 70             | 184,000   | 140   | 179,000   | 140   | 174,000   | 140   | 169,000   | 140   | 160,000   | 130   | 131,000   | 100   |   |       |
| 301    | 5000             | 4 05             | 194,000   | 160   | 189,000   | 160   | 184,000   | 160   | 178,000   | 160   | 173,000   | 155   | 152,000   | 130   | 99,600  | 86    |
| 316    | 5250             | 4 44             |   |       | 200,000   | 180   | 196,000   | 190   | 190,000   | 190   | 186,000   | 185   | 172,000   | 165   | 143,000   | 130   |
| 332    | 5500             | 4 88             |   |       | 212,000   | 210   | 208,000   | 210   | 202,000   | 210   | 198,000   | 210   | 188,000   | 200   | 169,000   | 175   |
| 347    | 5750             | 5 33             |   |       | 224,000   | 240   | 220,000   | 240   | 216,000   | 240   | 210,000   | 240   | 202,000   | 240   | 188,000   | 220   |
| 362    | 6000             | 5 80             |   |       |   |       |   |       | 226,000   | 270   | 224,000   | 270   | 214,000   | 270   | 204,000   | 260   |
| 377    | 6250             | 6 30             |   |       |   |       |   |       | 238,000   | 310   | 236,000   | 310   | 226,000   | 310   | 218,000   | 300   |
| 392    | 6500             | 6 81             |   |       |   |       |   |       | 252,000   | 350   | 246,000   | 350   | 238,000   | 350   | 232,000   | 350   |
| 407    | 6750             | 7 34             |   |       |   |       |   |       | 262,000   | 390   | 258,000   | 390   | 252,000   | 390   | 244,000   | 390   |
| 422    | 7000             | 7 89             |   |       |   |       |   |       |   |       | 270,000   | 440   | 264,000   | 440   | 256,000   | 410   |
| 452    | 7500             | 9 06             |   |       |   |       |   |       |   |       |   |       | 286,000   | 540   | 280,000   | 540   |
| 482    | 8000             | 10 32            |   |       |   |       |   |       |   |       |   |       |   |       | 304,000   | 670   |
| 512    | 8500             | 11 63            |   |       |   |       |   |       |   |       |   |       |   |       | 328,000   | 780   |
| 542    | 9000             | 13 05            |   |       |   |       |   |       |   |       |   |       |   |       | 352,000   | 940   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 3 1/2" Water 2.02 ozs. per sq. inch |       | Static Pressure 4" Water 2.31 ozs. per sq. inch     |       | Static Pressure 4 1/2" Water 2.89 ozs. per sq. inch |       | Static Pressure 5" Water 3.47 ozs. per sq. inch   |       | Static Pressure 5 1/2" Water 4.05 ozs. per sq. inch |       | Static Pressure 6" Water 4.63 ozs. per sq. inch   |       | Static Pressure 6 1/2" Water 5.2 ozs. per sq. inch  |       |
| 332    | 5500             | 4 88             | 127,000   | 130   |   |       |   |       |   |       |   |       |   |       |   |       |
| 347    | 5750             | 5 33             | 164,000   | 185   | 104,000   | 120   |   |       |   |       |   |       |   |       |   |       |
| 362    | 6000             | 5 80             | 187,000   | 230   | 156,000   | 190   |   |       |   |       |   |       |   |       |   |       |
| 377    | 6250             | 6 30             | 206,000   | 280   | 186,000   | 240   |   |       |   |       |   |       |   |       |   |       |
| 392    | 6500             | 6 81             | 222,000   | 340   | 208,000   | 300   | 138,000   | 200   |   |       |   |       |   |       |   |       |
| 407    | 6750             | 7 34             | 236,000   | 380   | 229,000   | 360   | 180,000   | 280   |   |       |   |       |   |       |   |       |
| 422    | 7000             | 7 89             | 248,000   | 430   | 240,000   | 410   | 208,000   | 340   |   |       |   |       |   |       |   |       |
| 452    | 7500             | 9 06             | 274,000   | 540   | 266,000   | 540   | 248,000   | 480   |   |       |   |       |   |       |   |       |
| 482    | 8000             | 10 32            | 296,000   | 670   | 292,000   | 660   | 278,000   | 630   | 210,000   | 400   |   |       |   |       |   |       |
| 512    | 8500             | 11 63            | 322,000   | 780   | 316,000   | 780   | 304,000   | 770   | 258,000   | 570   | 214,000   | 460   |   |       |   |       |
| 512    | 9000             | 13 05            | 346,000   | 940   | 340,000   | 940   | 330,000   | 940   | 290,000   | 740   | 266,000   | 660   | 220,000   | 540   |   |       |
| 522    | 9500             | 14 53            | 370,000   | 1100  | 364,000   | 1100  | 352,000   | 1100  | 316,000   | 910   | 302,000   | 860   | 278,000   | 770   | 234,000   | 640   |
| 602    | 10000            | 16 2             |   |       | 386,000   | 1290  | 378,000   | 1290  | 342,000   | 1090  | 330,000   | 1070  | 314,000   | 990   | 290,000   | 890   |
|        |                  |                  |   |       |   |       |   |       | 368,000   | 1290  | 356,000   | 1280  | 346,000   | 1250  | 330,000   | 1150  |

Double Inlet

## No. 14 Multivane Fan—Design 2

Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                     | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                     | H. P. |
|--------|------------------|------------------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|
|        |                  |                  | Static Pressure 1/2" Water .0722 ozs. per sq. inch  |       | Static Pressure 1/2" Water .145 ozs. per sq. inch   |       | Static Pressure 1/2" Water .217 ozs. per sq. inch   |       | Static Pressure 1/2" Water .289 ozs. per sq. inch   |       | Static Pressure 1/2" Water .361 ozs. per sq. inch |       | Static Pressure 1/2" Water .434 ozs. per sq. inch   |       | Static Pressure 1/2" Water .506 ozs. per sq. inch |       |
| 56     | 1050             | 0 179            | 31,600  | 1 2   |   |       |   |       |   |       |   |       |   |       |   |       |
| 67     | 1200             | 0 233            | 48,200  | 2 4   |   |       |   |       |   |       |   |       |   |       |   |       |
| 78     | 1400             | 0 316            | 60,600  | 4 2   |   |       |   |       |   |       |   |       |   |       |   |       |
| 89     | 1600             | 0 412            | 72,400  | 6 0   | 59,600  | 5 3   |   |       |   |       |   |       |   |       |   |       |
| 100    | 1800             | 0 520            | 83,200  | 8 6   | 75,000  | 8 6   | 49,000  | 5 4   |   |       |   |       |   |       |   |       |
| 111    | 2000             | 0 645            |   |       | 87,400  | 12    | 76,800  | 10 5  |   |       |   |       |   |       |   |       |
| 122    | 2200             | 0 780            |   |       | 99,200  | 16    | 91,600  | 16    | 77,400  | 13    |   |       |   |       |   |       |
| 133    | 2400             | 0 930            |   |       | 111,000   | 21    | 103,000   | 21    | 95,800  | 19    | 78,400  | 15 5  |   |       |   |       |
| 144    | 2600             | 1 09             |   |       | 122,000   | 27    | 115,000   | 27    | 109,000   | 26    | 100,000   | 24    | 81,000  | 18 5  |   |       |
| 155    | 2800             | 1 26             |   |       |   |       | 127,000   | 33    | 121,000   | 33    | 116,000   | 32    | 106,000   | 28    | 85,200  | 23    |
| 166    | 3000             | 1 45             |   |       |   |       | 138,000   | 41    | 133,000   | 41    | 128,000   | 41    | 122,000   | 39    | 112,000   | 35    |
| 177    | 3200             | 1 65             |   |       |   |       | 149,000   | 50    | 144,000   | 50    | 140,000   | 50    | 135,000   | 49    | 129,000   | 46    |
| 188    | 3400             | 1 86             |   |       |   |       |   |       | 156,000   | 60    | 151,000   | 60    | 146,000   | 60    | 143,000   | 60    |
| 199    | 3600             | 2 10             |   |       |   |       |   |       | 167,000   | 72    | 162,000   | 72    | 156,000   | 72    | 154,200   | 72    |
| 210    | 3800             | 2 32             |   |       |   |       |   |       |   |       | 174,000   | 86    | 171,000   | 86    | 166,000   | 86    |
| 221    | 4000             | 2 58             |   |       |   |       |   |       |   |       | 185,000   | 98    | 182,000   | 98    | 177,000   | 98    |
| 232    | 4200             | 2 85             |   |       |   |       |   |       |   |       |   |       |   |       |   |       |
| 243    | 4400             | 3 13             |   |       |   |       |   |       |   |       |   |       | 193,000   | 110   | 189,000   | 110   |
| 254    | 4600             | 3 41             |   |       |   |       |   |       |   |       |   |       | 204,000   | 130   | 200,000   | 130   |
| 266    | 4800             | 3 7              |   |       |   |       |   |       |   |       |   |       |   |       | 212,000   | 150   |
|        |                  |                  |   |       |   |       |   |       |   |       |   |       |   |       | 224,000   | 170   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 ozs. per sq. inch     |       | Static Pressure 1 1/2" Water .723 ozs. per sq. inch |       | Static Pressure 1 1/2" Water .878 ozs. per sq. inch |       | Static Pressure 1 1/2" Water 1.01 ozs. per sq. inch |       | Static Pressure 2" Water 1.16 ozs. per sq. inch   |       | Static Pressure 2 1/2" Water 1.45 ozs. per sq. inch |       | Static Pressure 3" Water 1.73 ozs. per sq. inch   |       |
| 166    | 3000             | 1 45             | 93,000  | 28    |   |       |   |       |   |       |   |       |   |       |   |       |
| 177    | 3200             | 1 65             | 119,000   | 42    |   |       |   |       |   |       |   |       |   |       |   |       |
| 188    | 3400             | 1 86             | 136,000   | 56    | 111,000   | 43    |   |       |   |       |   |       |   |       |   |       |
| 199    | 3600             | 2 10             | 150,000   | 70    | 135,000   | 60    | 101,000   | 45    |   |       |   |       |   |       |   |       |
| 210    | 3800             | 2 32             | 162,000   | 82    | 152,000   | 78    | 132,000   | 66    |   |       |   |       |   |       |   |       |
| 221    | 4000             | 2 58             | 173,000   | 98    | 165,000   | 96    | 152,000   | 82    | 128,000   | 70    |   |       |   |       |   |       |
| 232    | 4200             | 2 85             | 186,000   | 110   | 178,000   | 110   | 169,000   | 110   | 164,000   | 94    | 124,000   | 74    |   |       |   |       |
| 243    | 4400             | 3 13             | 198,000   | 130   | 190,000   | 130   | 183,000   | 130   | 173,000   | 115   | 155,000   | 105   |   |       |   |       |
| 254    | 4600             | 3 41             | 210,000   | 150   | 202,000   | 150   | 196,000   | 150   | 188,000   | 140   | 175,000   | 120   | 117,000   | 84    |   |       |
| 266    | 4800             | 3 70             | 220,000   | 170   | 214,000   | 170   | 206,000   | 170   | 202,000   | 165   | 191,000   | 150   | 156,000   | 120   |   |       |
| 277    | 5000             | 4 05             | 232,000   | 190   | 226,000   | 190   | 220,000   | 190   | 212,000   | 190   | 204,000   | 185   | 181,000   | 155   | 119,000   | 105   |
| 290    | 5250             | 4 44             |   |       | 240,000   | 220   | 234,000   | 220   | 228,000   | 220   | 222,000   | 220   | 204,000   | 195   | 171,000   | 160   |
| 304    | 5500             | 4 88             |   |       | 252,000   | 250   | 248,000   | 250   | 242,000   | 250   | 236,000   | 250   | 224,000   | 240   | 202,000   | 210   |
| 318    | 5750             | 5 33             |   |       | 268,000   | 290   | 262,000   | 290   | 258,000   | 290   | 252,000   | 290   | 242,000   | 280   | 224,000   | 200   |
| 332    | 6000             | 5 80             |   |       |   |       |   |       | 270,000   | 330   | 266,000   | 330   | 256,000   | 330   | 242,000   | 310   |
| 346    | 6250             | 6 30             |   |       |   |       |   |       | 284,000   | 370   | 280,000   | 370   | 270,000   | 370   | 260,000   | 360   |
| 359    | 6500             | 6 81             |   |       |   |       |   |       | 300,000   | 420   | 294,000   | 420   | 284,000   | 420   | 276,000   | 410   |
| 373    | 6750             | 7 34             |   |       |   |       |   |       | 314,000   | 470   | 308,000   | 470   | 300,000   | 470   | 292,000   | 470   |
| 387    | 7000             | 7 89             |   |       |   |       |   |       |   |       | 322,000   | 530   | 314,000   | 530   | 306,000   | 530   |
| 414    | 7500             | 9 06             |   |       |   |       |   |       |   |       |   |       | 342,000   | 640   | 334,000   | 640   |
| 442    | 8000             | 10 32            |   |       |   |       |   |       |   |       |   |       |   |       | 362,000   | 780   |
| 470    | 8500             | 11 63            |   |       |   |       |   |       |   |       |   |       |   |       | 392,000   | 940   |
| 497    | 9000             | 13 05            |   |       |   |       |   |       |   |       |   |       |   |       | 420,000   | 1120  |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 3 1/2" Water 2.02 ozs. per sq. inch |       | Static Pressure 4" Water 2.31 ozs. per sq. inch     |       | Static Pressure 5" Water 2.89 ozs. per sq. inch     |       | Static Pressure 6" Water 3.47 ozs. per sq. inch     |       | Static Pressure 7" Water 4.05 ozs. per sq. inch   |       | Static Pressure 8" Water 4.63 ozs. per sq. inch     |       | Static Pressure 9" Water 5.2 ozs. per sq. inch    |       |
| 304    | 5500             | 4 88             | 152,000   | 155   |   |       |   |       |   |       |   |       |   |       |   |       |
| 318    | 5750             | 5 33             | 196,000   | 220   | 124,000   | 145   |   |       |   |       |   |       |   |       |   |       |
| 332    | 6000             | 5 80             | 224,000   | 280   | 186,000   | 230   |   |       |   |       |   |       |   |       |   |       |
| 346    | 6250             | 6 30             | 246,000   | 340   | 222,000   | 280   |   |       |   |       |   |       |   |       |   |       |
| 359    | 6500             | 6 81             | 264,000   | 400   | 248,000   | 350   | 165,000   | 240   |   |       |   |       |   |       |   |       |
| 373    | 6750             | 7 34             | 280,000   | 460   | 268,000   | 420   | 216,000   | 330   |   |       |   |       |   |       |   |       |
| 387    | 7000             | 7 89             | 296,000   | 520   | 286,000   | 500   | 248,000   | 400   |   |       |   |       |   |       |   |       |
| 414    | 7500             | 9 06             | 326,000   | 640   | 318,000   | 640   | 296,000   | 580   | 252,000   | 480   |   |       |   |       |   |       |
| 442    | 8000             | 10 32            | 354,000   | 780   | 348,000   | 780   | 332,000   | 740   | 308,000   | 680   | 256,000   | 550   |   |       |   |       |
| 470    | 8500             | 11 63            | 384,000   | 940   | 376,000   | 940   | 362,000   | 920   | 346,000   | 880   | 316,000   | 790   | 264,000   | 640   |   |       |
| 497    | 9000             | 13 05            | 412,000   | 1120  | 406,000   | 1120  | 394,000   | 1120  | 376,000   | 1090  | 340,000   | 1020  | 330,000   | 920   | 278,000   | 760   |
| 525    | 9500             | 14 53            | 440,000   | 1310  | 434,000   | 1310  | 420,000   | 1310  | 408,000   | 1310  | 394,000   | 1280  | 376,000   | 1180  | 346,000   | 1060  |
| 553    | 10000            | 16 2             |   |       | 462,000   | 1540  | 450,000   | 1540  | 440,000   | 1540  | 426,000   | 1520  | 412,000   | 1470  | 394,000   | 1380  |

Double Inlet

## No. 15 Multivane Fan — Design 2

Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed<br>F.P.M. | S.N.D.<br>in<br>inches | Volume<br>C.F.M.  | H. P.  | Volume<br>C.F.M.   | H. P.  | Volume<br>C.F.M.   | H. P.  | Volume<br>C.F.M.   | H. P. | Volume<br>C.F.M. | H. P. | Volume<br>C.F.M. | H. P. | Volume<br>C.F.M. | H. P. |
|--------|---------------------|------------------------|---|--|--|--|--|--|--|-------|------------------|-------|------------------|-------|------------------|-------|
|        |                     |                        | Static Pressure<br>1 1/8" Water<br>.0722 ozs. per<br>sq. inch | Static Pressure<br>1 1/4" Water<br>.145 ozs. per<br>sq. inch | Static Pressure<br>3/4" Water<br>.217 ozs. per<br>sq. inch   | Static Pressure<br>1/2" Water<br>.289 ozs. per<br>sq. inch   | Static Pressure<br>5/8" Water<br>.361 ozs. per<br>sq. inch | Static Pressure<br>3/4" Water<br>.434 ozs. per<br>sq. inch   | Static Pressure<br>7/8" Water<br>.506 ozs. per<br>sq. inch |       |                  |       |                  |       |                  |       |
| 54     | 1050                | 0 179                  | 37,000  | 1 4  |  |  |  |  |  |       |                  |       |                  |       |                  |       |
| 62     | 1200                | 0 233                  | 56,100  | 2 9  |  |  |  |  |  |       |                  |       |                  |       |                  |       |
| 72     | 1400                | 0 316                  | 71,000  | 4 9  |  |  |  |  |  |       |                  |       |                  |       |                  |       |
| 82     | 1600                | 0 412                  | 81,800  | 6 9  | 70,000   | 6 2  |  |  |  |       |                  |       |                  |       |                  |       |
| 92     | 1800                | 0 520                  | 97,600  | 10   | 89,600   | 10 0   | 57,600   | 6 4  |  |       |                  |       |                  |       |                  |       |
| 102    | 2000                | 0 645                  |   |  | 103,000  | 14 5   | 90,200   | 12 5   |  |       |                  |       |                  |       |                  |       |
| 113    | 2200                | 0 780                  |   |  | 116,000  | 19   | 107,000  | 19   | 90,800   | 15    |                  |       |                  |       |                  |       |
| 123    | 2400                | 0 930                  |   |  | 130,000  | 25   | 121,000  | 25   | 112,000  | 23    | 91,800           | 18    |                  |       |                  |       |
| 133    | 2600                | 1 09                   |   |  | 143,000  | 31   | 135,000  | 31   | 128,000  | 31    | 117,000          | 28    | 95,000           | 22    |                  |       |
| 143    | 2800                | 1 26                   |   |  |  |  | 149,000  | 39   | 142,000  | 39    | 136,000          | 37    | 124,000          | 33    | 100,000          | 26    |
| 153    | 3000                | 1 45                   |   |  |  |  | 162,000  | 48   | 156,000  | 48    | 150,000          | 48    | 143,000          | 45    | 131,000          | 41    |
| 163    | 3200                | 1 65                   |   |  |  |  | 175,000  | 58   | 169,000  | 58    | 164,000          | 58    | 158,000          | 58    | 151,000          | 54    |
| 174    | 3400                | 1 86                   |   |  |  |  |  |  | 183,000  | 70    | 177,000          | 70    | 172,000          | 70    | 167,000          | 70    |
| 184    | 3600                | 2 10                   |   |  |  |  |  |  | 196,000  | 84    | 191,000          | 84    | 186,000          | 84    | 181,000          | 84    |
| 194    | 3800                | 2 32                   |   |  |  |  |  |  |  |       | 204,000          | 100   | 200,000          | 100   | 195,000          | 100   |
| 204    | 4000                | 2 58                   |   |  |  |  |  |  |  |       | 216,000          | 115   | 214,000          | 115   | 208,000          | 115   |
| 215    | 4200                | 2 85                   |   |  |  |  |  |  |  |       |                  |       | 226,000          | 130   | 222,000          | 130   |
| 225    | 4400                | 3 13                   |   |  |  |  |  |  |  |       |                  |       | 240,000          | 150   | 234,000          | 150   |
| 235    | 4600                | 3 41                   |   |  |  |  |  |  |  |       |                  |       |                  |       | 248,000          | 175   |
| 245    | 4800                | 3 70                   |   |  |  |  |  |  |  |       |                  |       |                  |       | 262,000          | 200   |
| R.P.M. | Tip Speed<br>F.P.M. | S.N.D.<br>in<br>inches | Static Pressure<br>1" Water<br>.578 ozs. per<br>sq. inch      | Static Pressure<br>1 1/4" Water<br>.723 ozs. per<br>sq. inch | Static Pressure<br>1 1/2" Water<br>.878 ozs. per<br>sq. inch | Static Pressure<br>1 3/4" Water<br>1.01 ozs. per<br>sq. inch | Static Pressure<br>2" Water<br>1.16 ozs. per<br>sq. inch   | Static Pressure<br>2 1/2" Water<br>1.45 ozs. per<br>sq. inch | Static Pressure<br>3" Water<br>1.73 ozs. per<br>sq. inch   |       |                  |       |                  |       |                  |       |
| 153    | 3000                | 1 45                   | 109,000   | 33   |  |  |  |  |  |       |                  |       |                  |       |                  |       |
| 163    | 3200                | 1 65                   | 139,000   | 49   |  |  |  |  |  |       |                  |       |                  |       |                  |       |
| 174    | 3400                | 1 86                   | 160,000   | 64   | 130,000  | 50   |  |  |  |       |                  |       |                  |       |                  |       |
| 184    | 3600                | 2 10                   | 176,000   | 82   | 158,000  | 70   | 119,000  | 52   |  |       |                  |       |                  |       |                  |       |
| 194    | 3800                | 2 32                   | 190,000   | 98   | 179,000  | 90   | 155,000  | 76   |  |       |                  |       |                  |       |                  |       |
| 204    | 4000                | 2 58                   | 204,000   | 115  | 194,000  | 110  | 179,000  | 100  | 150,000  | 82    |                  |       |                  |       |                  |       |
| 215    | 4200                | 2 85                   | 218,000   | 130  | 210,000  | 130  | 198,000  | 130  | 181,000  | 105   | 146,000          | 88    |                  |       |                  |       |
| 225    | 4400                | 3 13                   | 232,000   | 150  | 224,000  | 150  | 214,000  | 150  | 202,000  | 135   | 181,000          | 120   |                  |       |                  |       |
| 235    | 4600                | 3 41                   | 246,000   | 175  | 238,000  | 175  | 230,000  | 170  | 222,000  | 170   | 206,000          | 150   | 137,000          | 100   |                  |       |
| 245    | 4800                | 3 70                   | 258,000   | 200  | 250,000  | 200  | 244,000  | 200  | 236,000  | 190   | 224,000          | 180   | 183,000          | 145   |                  |       |
| 255    | 5000                | 4 05                   | 270,000   | 230  | 264,000  | 230  | 258,000  | 230  | 250,000  | 220   | 240,000          | 220   | 212,000          | 185   | 140,000          | 120   |
| 268    | 5250                | 4 44                   |   |  | 280,000  | 260  | 274,000  | 260  | 266,000  | 260   | 260,000          | 260   | 240,000          | 230   | 200,000          | 185   |
| 281    | 5500                | 4 88                   |   |  | 296,000  | 300  | 290,000  | 300  | 284,000  | 300   | 278,000          | 300   | 264,000          | 280   | 236,000          | 250   |
| 294    | 5750                | 5 33                   |   |  | 314,000  | 340  | 308,000  | 340  | 302,000  | 340   | 296,000          | 340   | 284,000          | 330   | 264,000          | 310   |
| 306    | 6000                | 5 80                   |   |  |  |  |  |  | 313,000  | 380   | 300,000          | 380   | 300,000          | 380   | 284,000          | 360   |
| 319    | 6250                | 6 30                   |   |  |  |  |  |  | 334,000  | 430   | 330,000          | 430   | 316,000          | 430   | 304,000          | 420   |
| 332    | 6500                | 6 81                   |   |  |  |  |  |  | 352,000  | 490   | 346,000          | 490   | 334,000          | 490   | 324,000          | 490   |
| 345    | 6750                | 7 34                   |   |  |  |  |  |  | 368,000  | 550   | 362,000          | 550   | 352,000          | 550   | 340,000          | 550   |
| 357    | 7000                | 7 89                   |   |  |  |  |  |  |  |       | 378,000          | 620   | 368,000          | 620   | 360,000          | 620   |
| 382    | 7500                | 9 06                   |   |  |  |  |  |  |  |       |                  |       | 402,000          | 760   | 392,000          | 760   |
| 408    | 8000                | 10 32                  |   |  |  |  |  |  |  |       |                  |       |                  |       | 426,000          | 920   |
| 433    | 8500                | 11 63                  |   |  |  |  |  |  |  |       |                  |       |                  |       | 460,000          | 1100  |
| 459    | 9000                | 13 05                  |   |  |  |  |  |  |  |       |                  |       |                  |       | 492,000          | 1310  |
| R.P.M. | Tip Speed<br>F.P.M. | S.N.D.<br>in<br>inches | Static Pressure<br>3 1/2" Water<br>2.02 ozs. per<br>sq. inch  | Static Pressure<br>4" Water<br>2.31 ozs. per<br>sq. inch     | Static Pressure<br>5" Water<br>2.89 ozs. per<br>sq. inch     | Static Pressure<br>6" Water<br>3.47 ozs. per<br>sq. inch     | Static Pressure<br>7" Water<br>4.05 ozs. per<br>sq. inch   | Static Pressure<br>8" Water<br>4.63 ozs. per<br>sq. inch     | Static Pressure<br>9" Water<br>5.2 ozs. per<br>sq. inch    |       |                  |       |                  |       |                  |       |
| 281    | 5500                | 4 88                   | 178,000   | 185  |  |  |  |  |  |       |                  |       |                  |       |                  |       |
| 294    | 5750                | 5 33                   | 230,000   | 260  | 146,000  | 170  |  |  |  |       |                  |       |                  |       |                  |       |
| 306    | 6000                | 5 80                   | 262,000   | 330  | 218,000  | 270  |  |  |  |       |                  |       |                  |       |                  |       |
| 319    | 6250                | 6 30                   | 290,000   | 390  | 260,000  | 330  |  |  |  |       |                  |       |                  |       |                  |       |
| 332    | 6500                | 6 81                   | 310,000   | 470  | 290,000  | 420  | 193,000  | 280  |  |       |                  |       |                  |       |                  |       |
| 345    | 6750                | 7 34                   | 330,000   | 540  | 314,000  | 500  | 252,000  | 390  |  |       |                  |       |                  |       |                  |       |
| 357    | 7000                | 7 89                   | 348,000   | 600  | 334,000  | 580  | 292,000  | 470  |  |       |                  |       |                  |       |                  |       |
| 382    | 7500                | 9 06                   | 382,000   | 760  | 372,000  | 750  | 348,000  | 680  | 296,000  | 560   |                  |       |                  |       |                  |       |
| 408    | 8000                | 10 32                  | 408,000   | 920  | 408,000  | 920  | 392,000  | 870  | 360,000  | 800   | 300,000          | 640   |                  |       |                  |       |
| 433    | 8500                | 11 63                  | 450,000   | 1100   | 442,000  | 1100   | 426,000  | 1080   | 404,000  | 1030  | 372,000          | 920   | 310,000          | 760   |                  |       |
| 459    | 9000                | 13 05                  | 484,000   | 1310   | 476,000  | 1310   | 462,000  | 1310   | 442,000  | 1280  | 424,000          | 1200  | 388,000          | 1080  | 326,000          | 890   |
| 485    | 9500                | 14 53                  | 516,000   | 1530   | 510,000  | 1530   | 492,000  | 1530   | 480,000  | 1530  | 464,000          | 1500  | 440,000          | 1390  | 406,000          | 1250  |
| 510    | 10000               | 16 20                  |   |  | 542,000  | 1800   | 528,000  | 1800   | 516,000  | 1800  | 500,000          | 1790  | 484,000          | 1730  | 462,000          | 1610  |

Double Inlet

## No. 16 Multivane Fan — Design 2

Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.                                       | H. P.   | Volume C.F.M.                                       | H. P.   | Volume C.F.M.                                       | H. P.   | Volume C.F.M.                                       | H. P. | Volume C.F.M. | H. P. | Volume C.F.M. | H. P. | Volume C.F.M. | H. P. |
|--------|------------------|------------------|---|---|---|---|---|---|---|-------|---------------|-------|---------------|-------|---------------|-------|
|        |                  |                  | Static Pressure 1/2" Water .0722 ozs. per sq. inch  | Static Pressure 1/2" Water .145 ozs. per sq. inch   | Static Pressure 3/4" Water .217 ozs. per sq. inch   | Static Pressure 1" Water .289 ozs. per sq. inch     | Static Pressure 1 1/4" Water .361 ozs. per sq. inch | Static Pressure 1 1/2" Water .434 ozs. per sq. inch | Static Pressure 1 3/4" Water .506 ozs. per sq. inch |       |               |       |               |       |               |       |
| 50     | 1050             | 0 179            | 43,000  | 1.6   |   |   |   |   |   |       |               |       |               |       |               |       |
| 57     | 1200             | 0 233            | 65,200  | 3.3   |   |   |   |   |   |       |               |       |               |       |               |       |
| 66     | 1400             | 0 316            | 82,000  | 5.7   |   |   |   |   |   |       |               |       |               |       |               |       |
| 76     | 1600             | 0 412            | 98,000  | 8.0   | 80,800  | 7.1   |   |   |   |       |               |       |               |       |               |       |
| 85     | 1800             | 0 520            | 113,000   | 11.5  | 102,000   | 11.5  | 66,400  | 7.4   |   |       |               |       |               |       |               |       |
| 95     | 2000             | 0 645            |   |   | 119,000   | 16.5  | 104,000   | 14.5  |   |       |               |       |               |       |               |       |
| 104    | 2200             | 0 780            |   |   | 135,000   | 22  | 121,000   | 22  |   |       |               |       |               |       |               |       |
| 113    | 2400             | 0 930            |   |   | 151,000   | 28  | 140,000   | 28  | 105,000   | 17    |               |       |               |       |               |       |
| 123    | 2600             | 1 09             |   |   | 165,000   | 37  | 156,000   | 37  | 130,000   | 26    | 106,000       | 21    |               |       |               |       |
| 133    | 2800             | 1 26             |   |   |   |   | 148,000   | 35  | 136,000   | 32    | 110,000       | 25    |               |       |               |       |
| 142    | 3000             | 1 45             |   |   |   |   | 164,000   | 45  | 157,000   | 43    | 143,000       | 38    | 116,000       | 31    |               |       |
| 152    | 3200             | 1 65             |   |   |   |   | 187,000   | 56  | 173,000   | 56    | 165,000       | 52    | 151,000       | 47    |               |       |
| 161    | 3400             | 1 86             |   |   |   |   | 202,000   | 68  | 189,000   | 68    | 183,000       | 66    | 175,000       | 62    |               |       |
| 170    | 3600             | 2 10             |   |   |   |   |   |   | 212,000   | 80    | 199,000       | 80    | 193,000       | 80    |               |       |
| 180    | 3800             | 2 32             |   |   |   |   |   |   | 226,000   | 96    | 214,000       | 96    | 210,000       | 96    |               |       |
| 189    | 4000             | 2 58             |   |   |   |   |   |   |   |       | 236,000       | 115   | 226,000       | 115   |               |       |
| 199    | 4200             | 2 85             |   |   |   |   |   |   |   |       | 250,000       | 130   | 246,000       | 130   |               |       |
| 208    | 4400             | 3 13             |   |   |   |   |   |   |   |       |               |       | 262,000       | 150   | 256,000       | 150   |
| 218    | 4600             | 3 41             |   |   |   |   |   |   |   |       |               |       | 276,000       | 175   | 272,000       | 175   |
| 227    | 4800             | 3 70             |   |   |   |   |   |   |   |       |               |       |               |       | 288,000       | 200   |
|        |                  |                  |   |   |   |   |   |   |   |       |               |       |               |       | 302,000       | 230   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 ozs. per sq. inch     | Static Pressure 1 1/4" Water .723 ozs. per sq. inch | Static Pressure 1 1/2" Water .878 ozs. per sq. inch | Static Pressure 1 3/4" Water 1.01 ozs. per sq. inch | Static Pressure 2" Water 1.16 ozs. per sq. inch     | Static Pressure 2 1/4" Water 1.45 ozs. per sq. inch | Static Pressure 2 1/2" Water 1.73 ozs. per sq. inch |       |               |       |               |       |               |       |
| 142    | 3000             | 1 45             | 126,000   | 38  |   |   |   |   |   |       |               |       |               |       |               |       |
| 152    | 3200             | 1 65             | 161,000   | 56  |   |   |   |   |   |       |               |       |               |       |               |       |
| 161    | 3400             | 1 86             | 184,000   | 74  | 151,000   | 58  |   |   |   |       |               |       |               |       |               |       |
| 170    | 3600             | 2 10             | 204,000   | 94  | 183,000   | 82  | 137,000   | 62  |   |       |               |       |               |       |               |       |
| 180    | 3800             | 2 32             | 220,000   | 110   | 206,000   | 105   | 179,000   | 88  |   |       |               |       |               |       |               |       |
| 189    | 4000             | 2 58             | 234,000   | 130   | 224,000   | 130   | 206,000   | 115   | 174,000   | 94    |               |       |               |       |               |       |
| 199    | 4200             | 2 85             | 252,000   | 150   | 242,000   | 150   | 230,000   | 145   | 210,000   | 130   | 168,000       | 100   |               |       |               |       |
| 208    | 4400             | 3 13             | 268,000   | 175   | 258,000   | 175   | 248,000   | 170   | 234,000   | 160   | 210,000       | 140   |               |       |               |       |
| 218    | 4600             | 3 41             | 281,000   | 200   | 274,000   | 200   | 266,000   | 200   | 256,000   | 190   | 238,000       | 175   | 159,000       | 115   |               |       |
| 227    | 4800             | 3 70             | 298,000   | 230   | 290,000   | 230   | 282,000   | 230   | 274,000   | 220   | 260,000       | 210   | 212,000       | 165   |               |       |
| 237    | 5000             | 4 05             | 314,000   | 260   | 306,000   | 260   | 298,000   | 260   | 288,000   | 260   | 278,000       | 250   | 246,000       | 210   | 161,000       | 140   |
| 248    | 5250             | 4 44             |   |   | 324,000   | 300   | 318,000   | 300   | 308,000   | 300   | 300,000       | 290   | 278,000       | 260   | 232,000       | 210   |
| 260    | 5500             | 4 88             |   |   | 344,000   | 350   | 336,000   | 350   | 328,000   | 340   | 320,000       | 340   | 304,000       | 330   | 274,000       | 280   |
| 272    | 5750             | 5 33             |   |   | 362,000   | 390   | 354,000   | 390   | 348,000   | 390   | 342,000       | 390   | 328,000       | 390   | 304,000       | 350   |
| 284    | 6000             | 5 80             |   |   |   |   |   |   | 368,000   | 440   | 360,000       | 440   | 348,000       | 440   | 330,000       | 420   |
| 296    | 6250             | 6 30             |   |   |   |   |   |   | 386,000   | 500   | 380,000       | 500   | 366,000       | 500   | 352,000       | 490   |
| 308    | 6500             | 6 81             |   |   |   |   |   |   | 406,000   | 560   | 400,000       | 560   | 386,000       | 560   | 374,000       | 560   |
| 319    | 6750             | 7 34             |   |   |   |   |   |   | 424,000   | 640   | 418,000       | 640   | 406,000       | 640   | 394,000       | 640   |
| 331    | 7000             | 7 89             |   |   |   |   |   |   |   |       | 438,000       | 720   | 426,000       | 720   | 414,000       | 720   |
| 355    | 7500             | 9 06             |   |   |   |   |   |   |   |       |               |       | 464,000       | 870   | 452,000       | 870   |
| 378    | 8000             | 10 32            |   |   |   |   |   |   |   |       |               |       |               |       | 492,000       | 1080  |
| 402    | 8500             | 11 63            |   |   |   |   |   |   |   |       |               |       |               |       | 530,000       | 1270  |
| 426    | 9000             | 13 05            |   |   |   |   |   |   |   |       |               |       |               |       | 568,000       | 1520  |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 3 1/2" Water 2.02 ozs. per sq. inch | Static Pressure 4" Water 2.31 ozs. per sq. inch     | Static Pressure 5" Water 2.89 ozs. per sq. inch     | Static Pressure 6" Water 3.47 ozs. per sq. inch     | Static Pressure 7" Water 4.05 ozs. per sq. inch     | Static Pressure 8" Water 4.63 ozs. per sq. inch     | Static Pressure 9" Water 5.2 ozs. per sq. inch      |       |               |       |               |       |               |       |
| 260    | 5500             | 4 88             | 206,000   | 210   |   |   |   |   |   |       |               |       |               |       |               |       |
| 272    | 5750             | 5 33             | 266,000   | 300   | 168,000   | 195   |   |   |   |       |               |       |               |       |               |       |
| 284    | 6000             | 5 80             | 302,000   | 380   | 252,000   | 310   |   |   |   |       |               |       |               |       |               |       |
| 296    | 6250             | 6 30             | 334,000   | 450   | 300,000   | 390   |   |   |   |       |               |       |               |       |               |       |
| 308    | 6500             | 6 81             | 360,000   | 510   | 336,000   | 480   | 224,000   | 330   |   |       |               |       |               |       |               |       |
| 319    | 6750             | 7 34             | 380,000   | 620   | 362,000   | 580   | 292,000   | 450   |   |       |               |       |               |       |               |       |
| 331    | 7000             | 7 89             | 402,000   | 700   | 388,000   | 670   | 338,000   | 540   |   |       |               |       |               |       |               |       |
| 355    | 7500             | 9 06             | 442,000   | 870   | 432,000   | 860   | 402,000   | 780   | 342,000   | 650   |               |       |               |       |               |       |
| 378    | 8000             | 10 32            | 480,000   | 1080  | 472,000   | 1060  | 450,000   | 1000  | 416,000   | 920   | 346,000       | 710   |               |       |               |       |
| 402    | 8500             | 11 63            | 520,000   | 1270  | 510,000   | 1270  | 492,000   | 1250  | 468,000   | 1190  | 428,000       | 1070  | 358,000       | 880   |               |       |
| 426    | 9000             | 13 05            | 560,000   | 1520  | 550,000   | 1520  | 534,000   | 1520  | 510,000   | 1480  | 488,000       | 1390  | 448,000       | 1250  | 378,000       | 1030  |
| 449    | 9500             | 14 53            | 598,000   | 1770  | 588,000   | 1770  | 570,000   | 1770  | 554,000   | 1770  | 536,000       | 1730  | 510,000       | 1600  | 468,000       | 1440  |
| 473    | 10000            | 16 2             |   |   | 626,000   | 2080  | 612,000   | 2080  | 596,000   | 2080  | 576,000       | 2060  | 560,000       | 2000  | 536,000       | 1870  |

Double Inlet

## No. 17 Multivane Fan—Design 2

Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed<br>F.P.M. | S.N.D.<br>in<br>inches | Volume   | H. P.   | Volume   | H. P.  | Volume   | H. P.  | Volume   | H. P.  | Volume   | H. P.  | Volume   | H. P.  | Volume   | H. P.  |
|--------|---------------------|------------------------|--|---|--|--|--|--|--|--|--|--|--|--|--|--|
|        |                     |                        | C.F.M.   | Static Pressure<br>1/2" Water<br>.0722 ozs. per<br>sq. inch | C.F.M.   | Static Pressure<br>1/2" Water<br>.145 ozs. per<br>sq. inch | C.F.M.   | Static Pressure<br>1/2" Water<br>.217 ozs. per<br>sq. inch | C.F.M.   | Static Pressure<br>1/2" Water<br>.289 ozs. per<br>sq. inch | C.F.M.   | Static Pressure<br>1/2" Water<br>.361 ozs. per<br>sq. inch | C.F.M.   | Static Pressure<br>1/2" Water<br>.434 ozs. per<br>sq. inch | C.F.M.   | Static Pressure<br>1/2" Water<br>.506 ozs. per<br>sq. inch |
| 46     | 1050                | 0 179                  | 19,100   | 1.85  |  |  |  |  |  |  |  |  |  |  |  |  |
| 53     | 1200                | 0 233                  | 75,000   | 3 8   |  |  |  |  |  |  |  |  |  |  |  |  |
| 62     | 1400                | 0 316                  | 94,400   | 6 5   |  |  |  |  |  |  |  |  |  |  |  |  |
| 71     | 1600                | 0 412                  | 113,000  | 9 2   | 93,000   | 8 2  |  |  |  |  |  |  |  |  |  |  |
| 80     | 1800                | 0 520                  | 130,000  | 13 5  | 117,000  | 13 5   | 76,600   | 8 5  |  |  |  |  |  |  |  |  |
| 89     | 2000                | 0 645                  |  |   | 136,000  | 19   | 120,000  | 16 5   |  |  |  |  |  |  |  |  |
| 98     | 2200                | 0 78                   |  |   | 155,000  | 25   | 143,000  | 25   | 121,000  | 20   |  |  |  |  |  |  |
| 106    | 2400                | 0 93                   |  |   | 173,000  | 33   | 161,000  | 33   | 149,000  | 30   | 122,000  | 24   |  |  |  |  |
| 115    | 2600                | 1 09                   |  |   | 189,000  | 42   | 180,000  | 42   | 170,000  | 41   | 157,000  | 37   | 126,000  | 29   |  |  |
| 124    | 2800                | 1 26                   |  |   |  |  | 198,000  | 52   | 189,000  | 42   | 180,000  | 50   | 165,000  | 41   | 133,000  | 35   |
| 133    | 3000                | 1 45                   |  |   |  |  | 216,000  | 64   | 208,000  | 64   | 199,000  | 64   | 189,000  | 60   | 174,000  | 54   |
| 142    | 3200                | 1 65                   |  |   |  |  | 234,000  | 78   | 224,000  | 78   | 218,000  | 78   | 210,000  | 76   | 200,000  | 72   |
| 151    | 3400                | 1 86                   |  |   |  |  |  |  | 244,000  | 92   | 236,000  | 92   | 228,000  | 92   | 222,000  | 92   |
| 159    | 3600                | 2 10                   |  |   |  |  |  |  | 260,000  | 110  | 254,000  | 110  | 246,000  | 110  | 240,000  | 110  |
| 168    | 3800                | 2 32                   |  |   |  |  |  |  |  |  | 272,000  | 130  | 266,000  | 130  | 258,000  | 130  |
| 177    | 4000                | 2 58                   |  |   |  |  |  |  |  |  | 288,000  | 150  | 284,000  | 150  | 276,000  | 150  |
| 186    | 4200                | 2 85                   |  |   |  |  |  |  |  |  |  |  | 302,000  | 175  | 294,000  | 175  |
| 195    | 4400                | 3 13                   |  |   |  |  |  |  |  |  |  |  | 318,000  | 200  | 312,000  | 200  |
| 204    | 4600                | 3 41                   |  |   |  |  |  |  |  |  |  |  |  |  | 330,000  | 230  |
| 213    | 4800                | 3 7                    |  |   |  |  |  |  |  |  |  |  |  |  | 348,000  | 260  |
| R.P.M. | Tip Speed<br>F.P.M. | S.N.D.<br>inches       | Static Pressure<br>1" Water<br>.578 ozs. per<br>sq. inch     |   | Static Pressure<br>1 1/4" Water<br>.723 ozs. per<br>sq. inch |  | Static Pressure<br>1 1/2" Water<br>.878 ozs. per<br>sq. inch |  | Static Pressure<br>1 3/4" Water<br>1.01 ozs. per<br>sq. inch |  | Static Pressure<br>2" Water<br>1.16 ozs. per<br>sq. inch |  | Static Pressure<br>2 1/2" Water<br>1.45 ozs. per<br>sq. inch |  | Static Pressure<br>3" Water<br>1.73 ozs. per<br>sq. inch |  |
|        |                     |                        |  |   |  |  |  |  |  |  |  |  |  |  |  |  |
| 133    | 3000                | 1 45                   | 115,000  | 44  |  |  |  |  |  |  |  |  |  |  |  |  |
| 142    | 3200                | 1 65                   | 185,000  | 66  |  |  |  |  |  |  |  |  |  |  |  |  |
| 151    | 3400                | 1 86                   | 212,000  | 86  | 173,000  | 68   |  |  |  |  |  |  |  |  |  |  |
| 159    | 3600                | 2 10                   | 234,000  | 110   | 210,000  | 94   | 158,000  | 70   |  |  |  |  |  |  |  |  |
| 168    | 3800                | 2 32                   | 252,000  | 130   | 238,000  | 120  | 206,000  | 100  |  |  |  |  |  |  |  |  |
| 177    | 4000                | 2 58                   | 270,000  | 150   | 258,000  | 150  | 238,000  | 130  | 200,000  | 110  |  |  |  |  |  |  |
| 186    | 4200                | 2 85                   | 290,000  | 175   | 278,000  | 170  | 264,000  | 165  | 240,000  | 145  | 193,000  | 115  |  |  |  |  |
| 195    | 4400                | 3 13                   | 308,000  | 200   | 296,000  | 200  | 286,000  | 200  | 270,000  | 180  | 242,000  | 160  |  |  |  |  |
| 204    | 4600                | 3 41                   | 326,000  | 230   | 316,000  | 230  | 304,000  | 230  | 294,000  | 220  | 274,000  | 200  | 182,000  | 130  |  |  |
| 213    | 4800                | 3 70                   | 342,000  | 260   | 334,000  | 260  | 324,000  | 260  | 314,000  | 260  | 298,000  | 240  | 244,000  | 190  |  |  |
| 221    | 5000                | 4 05                   | 360,000  | 300   | 350,000  | 300  | 342,000  | 300  | 332,000  | 300  | 320,000  | 290  | 282,000  | 240  | 186,000  | 160  |
| 232    | 5250                | 4 44                   |  |   | 374,000  | 350  | 364,000  | 350  | 354,000  | 350  | 346,000  | 340  | 320,000  | 300  | 266,000  | 250  |
| 244    | 5500                | 4 88                   |  |   | 394,000  | 450  | 388,000  | 410  | 376,000  | 400  | 368,000  | 400  | 350,000  | 370  | 314,000  | 330  |
| 255    | 5750                | 5 33                   |  |   | 416,000  | 510  | 408,000  | 450  | 400,000  | 450  | 392,000  | 450  | 376,000  | 410  | 350,000  | 410  |
| 266    | 6000                | 5 80                   |  |   |  |  |  |  | 422,000  | 510  | 414,000  | 510  | 398,000  | 510  | 378,000  | 480  |
| 277    | 6250                | 6 30                   |  |   |  |  |  |  | 444,000  | 570  | 438,000  | 570  | 422,000  | 570  | 406,000  | 560  |
| 288    | 6500                | 6 81                   |  |   |  |  |  |  | 468,000  | 650  | 460,000  | 650  | 444,000  | 650  | 430,000  | 640  |
| 299    | 6750                | 7 34                   |  |   |  |  |  |  | 488,000  | 730  | 482,000  | 730  | 468,000  | 730  | 454,000  | 730  |
| 310    | 7000                | 7 89                   |  |   |  |  |  |  |  |  | 504,000  | 820  | 490,000  | 820  | 478,000  | 820  |
| 332    | 7500                | 9 06                   |  |   |  |  |  |  |  |  |  |  | 534,000  | 1000   | 520,000  | 1000   |
| 354    | 8000                | 10 32                  |  |   |  |  |  |  |  |  |  |  |  |  | 566,000  | 1200   |
| 376    | 8500                | 11 63                  |  |   |  |  |  |  |  |  |  |  |  |  | 610,000  | 1460   |
| 398    | 9000                | 13 05                  |  |   |  |  |  |  |  |  |  |  |  |  | 654,000  | 1740   |
| R.P.M. | Tip Speed<br>F.P.M. | S.N.D.<br>in<br>inches | Static Pressure<br>3 1/2" Water<br>2.02 ozs. per<br>sq. inch |   | Static Pressure<br>4" Water<br>2.31 ozs. per<br>sq. inch     |  | Static Pressure<br>5" Water<br>2.89 ozs. per<br>sq. inch     |  | Static Pressure<br>6" Water<br>3.47 ozs. per<br>sq. inch     |  | Static Pressure<br>7" Water<br>4.05 ozs. per<br>sq. inch |  | Static Pressure<br>8" Water<br>4.63 ozs. per<br>sq. inch     |  | Static Pressure<br>9" Water<br>5.2 ozs. per<br>sq. inch  |  |
|        |                     |                        |  |   |  |  |  |  |  |  |  |  |  |  |  |  |
| 244    | 5500                | 4 88                   | 236,000  | 240   |  |  |  |  |  |  |  |  |  |  |  |  |
| 255    | 5750                | 5 33                   | 304,000  | 340   | 193,000  | 220  |  |  |  |  |  |  |  |  |  |  |
| 266    | 6000                | 5 80                   | 348,000  | 430   | 290,000  | 350  |  |  |  |  |  |  |  |  |  |  |
| 277    | 6250                | 6 30                   | 384,000  | 520   | 346,000  | 410  |  |  |  |  |  |  |  |  |  |  |
| 288    | 6500                | 6 81                   | 412,000  | 630   | 386,000  | 550  | 258,000  | 370  |  |  |  |  |  |  |  |  |
| 299    | 6750                | 7 34                   | 438,000  | 710   | 416,000  | 660  | 336,000  | 510  |  |  |  |  |  |  |  |  |
| 310    | 7000                | 7 89                   | 462,000  | 810   | 446,000  | 770  | 398,000  | 630  |  |  |  |  |  |  |  |  |
| 332    | 7500                | 9 06                   | 508,000  | 1000  | 496,000  | 1000   | 462,000  | 900  | 392,000  | 750  |  |  |  |  |  |  |
| 354    | 8000                | 10 32                  | 552,000  | 1220  | 544,000  | 1220   | 516,000  | 1150   | 480,000  | 1060   | 398,000  | 860  |  |  |  |  |
| 376    | 8500                | 11 63                  | 598,000  | 1460  | 588,000  | 1460   | 566,000  | 1440   | 538,000  | 1370   | 494,000  | 1230   | 412,000  | 1010   |  |  |
| 398    | 9000                | 13 05                  | 642,000  | 1740  | 632,000  | 1740   | 614,000  | 1740   | 588,000  | 1700   | 562,000  | 1590   | 516,000  | 1430   | 434,000  | 1190   |
| 420    | 9500                | 14 53                  | 688,000  | 2040  | 676,000  | 2040   | 656,000  | 2040   | 638,000  | 2010   | 616,000  | 1900   | 586,000  | 1840   | 540,000  | 1660   |
| 443    | 10000               | 16 2                   |  |   | 720,000  | 2400   | 704,000  | 2400   | 684,000  | 2400   | 664,000  | 2380   | 644,000  | 2300   | 614,000  | 2140   |

### Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed<br>F.P.M. | S.N.D.<br>in<br>inches | Volume<br>C.F.M.  | H. P.  | Volume<br>C.F.M.   | H. P.  | Volume<br>C.F.M.   | H. P.  | Volume<br>C.F.M.   | H. P. | Volume<br>C.F.M.   | H. P. | Volume<br>C.F.M.   | H. P. | Volume<br>C.F.M.   | H. P. | Volume<br>C.F.M. | H. P. |
|--------|---------------------|------------------------|---|--|--|--|--|--|--|-------|--|-------|--|-------|--|-------|------------------|-------|
|        |                     |                        | Static Pressure<br>1 1/2" Water<br>.0722 ozs. per<br>sq. inch |  | Static Pressure<br>3/4" Water<br>.145 ozs. per<br>sq. inch   |  | Static Pressure<br>1/2" Water<br>.217 ozs. per<br>sq. inch |  | Static Pressure<br>1/4" Water<br>.289 ozs. per<br>sq. inch |       | Static Pressure<br>3/8" Water<br>.361 ozs. per<br>sq. inch |       | Static Pressure<br>1/2" Water<br>.434 ozs. per<br>sq. inch |       | Static Pressure<br>3/4" Water<br>.506 ozs. per<br>sq. inch |       |                  |       |
| 44     | 1050                | 0 179                  | 56,000  | 2 1  |  |  |  |  |  |       |  |       |  |       |  |       |                  |       |
| 50     | 1200                | 0 233                  | 85,000  | 4 3  |  |  |  |  |  |       |  |       |  |       |  |       |                  |       |
| 58     | 1400                | 0 316                  | 107,000   | 7 1  |  |  |  |  |  |       |  |       |  |       |  |       |                  |       |
| 66     | 1600                | 0 412                  | 128,000   | 10 5   | 106,000  | 9 3  |  |  |  |       |  |       |  |       |  |       |                  |       |
| 75     | 1800                | 0 520                  | 147,000   | 15   | 133,000  | 15   | 86,800   | 9 6  |  |       |  |       |  |       |  |       |                  |       |
| 83     | 2000                | 0 645                  |   |  | 155,000  | 22   | 136,000  | 19   |  |       |  |       |  |       |  |       |                  |       |
| 91     | 2200                | 0 780                  |   |  | 175,000  | 29   | 162,000  | 25   |  |       |  |       |  |       |  |       |                  |       |
| 100    | 2400                | 0 930                  |   |  | 196,000  | 37   | 183,000  | 37   | 137,000  | 22    |  |       |  |       |  |       |                  |       |
| 108    | 2600                | 1 09                   |   |  |  |  |  |  | 169,000  | 34    | 138,000  | 27    |  |       |  |       |                  |       |
| 116    | 2800                | 1 26                   |   |  | 216,000  | 47   | 204,000  | 47   | 193,000  | 46    | 178,000  | 42    | 143,000  | 33    |  |       |                  |       |
| 124    | 3000                | 1 45                   |   |  |  |  | 224,000  | 58   | 214,000  | 58    | 204,000  | 55    | 187,000  | 50    | 151,000  | 40    |                  |       |
| 133    | 3200                | 1 65                   |   |  |  |  | 244,000  | 72   | 236,000  | 72    | 226,000  | 72    | 216,000  | 68    | 197,000  | 62    |                  |       |
| 141    | 3400                | 1 86                   |   |  |  |  | 264,000  | 88   | 254,000  | 88    | 248,000  | 88    | 238,000  | 86    | 228,000  | 82    |                  |       |
| 149    | 3600                | 2 10                   |   |  |  |  |  |  | 276,000  | 105   | 268,000  | 105   | 260,000  | 105   | 252,000  | 105   |                  |       |
| 158    | 3800                | 2 32                   |   |  |  |  |  |  | 296,000  | 130   | 288,000  | 130   | 280,000  | 130   | 272,000  | 125   |                  |       |
| 166    | 4000                | 2 58                   |   |  |  |  |  |  |  |       | 308,000  | 150   | 302,000  | 150   | 294,000  | 150   |                  |       |
| 174    | 4200                | 2 85                   |   |  |  |  |  |  |  |       | 326,000  | 170   | 322,000  | 170   | 314,000  | 170   |                  |       |
| 182    | 4400                | 3 13                   |   |  |  |  |  |  |  |       |  |       | 342,000  | 200   | 334,000  | 200   |                  |       |
| 191    | 4600                | 3 41                   |   |  |  |  |  |  |  |       |  |       | 360,000  | 230   | 354,000  | 230   |                  |       |
| 199    | 4800                | 3 70                   |   |  |  |  |  |  |  |       |  |       |  |       | 374,000  | 260   |                  |       |
|        |                     |                        |   |  |  |  |  |  |  |       |  |       |  |       | 394,000  | 300   |                  |       |
| R.P.M. | Tip Speed<br>F.P.M. | S.N.D.<br>in<br>inches | Static Pressure<br>1" Water<br>.578 ozs. per<br>sq. inch      | Static Pressure<br>1 1/4" Water<br>.723 ozs. per<br>sq. inch | Static Pressure<br>1 1/2" Water<br>.878 ozs. per<br>sq. inch | Static Pressure<br>1 3/4" Water<br>1.01 ozs. per<br>sq. inch | Static Pressure<br>2" Water<br>1.16 ozs. per<br>sq. inch   | Static Pressure<br>2 1/2" Water<br>1.45 ozs. per<br>sq. inch | Static Pressure<br>3" Water<br>1.73 ozs. per<br>sq. inch   |       |  |       |  |       |  |       |                  |       |
| 124    | 3000                | 1 45                   | 164,000   | 50   |  |  |  |  |  |       |  |       |  |       |  |       |                  |       |
| 133    | 3200                | 1 65                   | 210,000   | 74   |  |  |  |  |  |       |  |       |  |       |  |       |                  |       |
| 141    | 3400                | 1 86                   | 240,000   | 98   | 196,000  | 76   |  |  |  |       |  |       |  |       |  |       |                  |       |
| 149    | 3600                | 2 10                   | 266,000   | 125  | 238,000  | 110  | 179,000  | 80   |  |       |  |       |  |       |  |       |                  |       |
| 158    | 3800                | 2 32                   | 286,000   | 150  | 270,000  | 135  | 234,000  | 115  |  |       |  |       |  |       |  |       |                  |       |
| 166    | 4000                | 2 58                   | 306,000   | 170  | 292,000  | 170  | 270,000  | 150  |  |       |  |       |  |       |  |       |                  |       |
| 174    | 4200                | 2 85                   | 328,000   | 200  | 316,000  | 195  | 298,000  | 190  | 272,000  | 165   | 220,000  | 130   |  |       |  |       |                  |       |
| 182    | 4400                | 3 13                   | 350,000   | 230  | 336,000  | 230  | 324,000  | 220  | 304,000  | 210   | 274,000  | 180   |  |       |  |       |                  |       |
| 191    | 4600                | 3 41                   | 370,000   | 260  | 358,000  | 260  | 346,000  | 260  | 334,000  | 250   | 310,000  | 230   |  |       |  |       |                  |       |
| 199    | 4800                | 3 70                   | 388,000   | 300  | 378,000  | 300  | 366,000  | 300  | 356,000  | 290   | 338,000  | 270   | 206,000  | 150   |  |       |                  |       |
| 207    | 5000                | 4 05                   | 408,000   | 340  | 398,000  | 340  | 388,000  | 340  | 376,000  | 340   | 362,000  | 330   | 276,000  | 210   |  |       |                  |       |
| 218    | 5250                | 4 44                   |   |  | 422,000  | 390  | 414,000  | 390  | 402,000  | 390   | 392,000  | 380   |  |       | 210,000  | 185   |                  |       |
| 228    | 5500                | 4 88                   |   |  | 448,000  | 450  | 438,000  | 450  | 428,000  | 450   | 418,000  | 450   | 362,000  | 310   | 302,000  | 280   |                  |       |
| 239    | 5750                | 5 33                   |   |  | 472,000  | 510  | 462,000  | 510  | 454,000  | 510   | 444,000  | 510   | 396,000  | 420   | 356,000  | 370   |                  |       |
| 249    | 6000                | 5 80                   |   |  |  |  |  |  |  |       |  |       | 426,000  | 500   | 396,000  | 460   |                  |       |
| 259    | 6250                | 6 30                   |   |  |  |  | 488,000  | 580  | 478,000  | 580   | 470,000  | 580   | 452,000  | 580   | 430,000  | 540   |                  |       |
| 270    | 6500                | 6 81                   |   |  |  |  |  |  | 504,000  | 650   | 496,000  | 650   | 478,000  | 650   | 460,000  | 640   |                  |       |
| 280    | 6750                | 7 31                   |   |  |  |  |  |  | 530,000  | 740   | 520,000  | 740   | 504,000  | 740   | 488,000  | 730   |                  |       |
| 290    | 7000                | 7 89                   |   |  |  |  |  |  | 551,000  | 830   | 546,000  | 830   | 530,000  | 830   | 514,000  | 830   |                  |       |
| 311    | 7500                | 9 06                   |   |  |  |  |  |  |  |       | 570,000  | 930   | 556,000  | 930   | 540,000  | 930   |                  |       |
| 332    | 8000                | 10 32                  |   |  |  |  |  |  |  |       |  |       | 606,000  | 1140  | 590,000  | 1140  |                  |       |
| 352    | 8500                | 11 63                  |   |  |  |  |  |  |  |       |  |       |  |       | 642,000  | 1380  |                  |       |
| 373    | 9000                | 13 05                  |   |  |  |  |  |  |  |       |  |       |  |       | 692,000  | 1660  |                  |       |
|        |                     |                        |   |  |  |  |  |  |  |       |  |       |  |       | 742,000  | 1980  |                  |       |
| R.P.M. | Tip Speed<br>F.P.M. | S.N.D.<br>in<br>inches | Static Pressure<br>3 1/2" Water<br>2.02 ozs. per<br>sq. inch  | Static Pressure<br>4" Water<br>2.31 ozs. per<br>sq. inch     | Static Pressure<br>5" Water<br>2.89 ozs. per<br>sq. inch     | Static Pressure<br>6" Water<br>3.47 ozs. per<br>sq. inch     | Static Pressure<br>7" Water<br>4.05 ozs. per<br>sq. inch   | Static Pressure<br>8" Water<br>4.63 ozs. per<br>sq. inch     | Static Pressure<br>9" Water<br>5.2 ozs. per<br>sq. inch    |       |  |       |  |       |  |       |                  |       |
| 228    | 5500                | 4 88                   | 268,000   | 280  |  |  |  |  |  |       |  |       |  |       |  |       |                  |       |
| 239    | 5750                | 5 33                   | 346,000   | 390  | 220,000  | 250  |  |  |  |       |  |       |  |       |  |       |                  |       |
| 249    | 6000                | 5 80                   | 394,000   | 490  | 328,000  | 400  |  |  |  |       |  |       |  |       |  |       |                  |       |
| 259    | 6250                | 6 30                   | 436,000   | 590  | 392,000  | 500  |  |  |  |       |  |       |  |       |  |       |                  |       |
| 270    | 6500                | 6 81                   | 468,000   | 710  | 436,000  | 630  | 292,000  | 410  |  |       |  |       |  |       |  |       |                  |       |
| 280    | 6750                | 7 31                   | 496,000   | 810  | 472,000  | 750  | 380,000  | 580  |  |       |  |       |  |       |  |       |                  |       |
| 290    | 7000                | 7 89                   | 524,000   | 910  | 504,000  | 880  | 440,000  | 710  |  |       |  |       |  |       |  |       |                  |       |
| 311    | 7500                | 9 06                   | 576,000   | 1110   | 562,000  | 1130   | 524,000  | 1020   |  |       |  |       |  |       |  |       |                  |       |
| 332    | 8000                | 10 32                  | 626,000   | 1380   | 616,000  | 1380   | 586,000  | 1310   | 444,000  | 850   |  |       |  |       |  |       |                  |       |
| 352    | 8500                | 11 63                  | 678,000   | 1660   | 666,000  | 1660   | 640,000  | 1630   | 544,000  | 1200  | 452,000  | 970   |  |       |  |       |                  |       |
| 373    | 9000                | 13 05                  | 728,000   | 1980   | 716,000  | 1980   | 696,000  | 1930   | 610,000  | 1550  | 560,000  | 1390  | 468,000  | 1140  |  |       |                  |       |
| 394    | 9500                | 14 53                  | 780,000   | 2320   | 768,000  | 2320   | 744,000  | 2320   | 636,000  | 1810  | 584,000  | 1620  |  |       | 492,000  | 1350  |                  |       |
| 415    | 10000               | 16 2                   |   |  | 796,000  | 2720   | 796,000  | 2720   | 724,000  | 2300  | 698,000  | 2260  | 664,000  | 2080  | 612,000  | 1880  |                  |       |
|        |                     |                        |   |  |  |  |  |  |  |       | 752,000  | 2700  | 728,000  | 2600  | 698,000  | 2440  |                  |       |

| Double Inlet   |                  |               | No. 20 Multivane Fan—Design 2                                     |   |  |   |  |   |  |   |  |   | Double Width   |   |  |   |
|--|------------------|---------------|---|---|--|---|--|---|--|---|--|---|--|---|--|---|
| When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances |                  |               |   |   |  |   |  |   |  |   |  |   |  |   |  |   |
| R.P.M.   | Tip Speed F.P.M. | S.N.D. inches | Volume C.F.M.<br>Static Pressure 1" Water .0722 ozs. per sq. inch | H.P.  | Volume C.F.M.<br>Static Pressure 1 1/4" Water .145 ozs. per sq. inch | H.P.  | Volume C.F.M.<br>Static Pressure 1 1/2" Water .217 ozs. per sq. inch | H.P.  | Volume C.F.M.<br>Static Pressure 1 3/4" Water .289 ozs. per sq. inch | H.P.  | Volume C.F.M.<br>Static Pressure 2" Water .361 ozs. per sq. inch | H.P.  | Volume C.F.M.<br>Static Pressure 2 1/4" Water .434 ozs. per sq. inch | H.P.  | Volume C.F.M.<br>Static Pressure 2 1/2" Water .506 ozs. per sq. inch | H.P.  |
| 39   | 1050             | 0 179         | 70,600  | 2 6   |  |   |  |   |  |   |  |   |  |   |  |   |
| 41   | 1200             | 0 233         | 108,000   | 5 4   |  |   |  |   |  |   |  |   |  |   |  |   |
| 52   | 1400             | 0 316         | 135,000   | 9 4   |  |   |  |   |  |   |  |   |  |   |  |   |
| 59   | 1600             | 0 412         | 162,000   | 13  | 133,000  | 12  |  |   |  |   |  |   |  |   |  |   |
| 66   | 1800             | 0 520         | 186,000   | 19  | 168,000  | 19  | 110,000  | 12  |  |   |  |   |  |   |  |   |
| 74   | 2000             | 0 645         |   |   | 195,000  | 27  | 172,000  | 21  |  |   |  |   |  |   |  |   |
| 81   | 2200             | 0 78          |   |   | 222,000  | 36  | 204,000  | 35  | 173,000  | 28  |  |   |  |   |  |   |
| 89   | 2400             | 0 93          |   |   | 248,000  | 47  | 230,000  | 47  | 214,000  | 43  | 175,000  | 34  |  |   |  |   |
| 96   | 2600             | 1 09          |   |   | 272,000  | 60  | 258,000  | 60  | 244,000  | 58  | 221,000  | 52  | 181,000  | 42  |  |   |
| 103  | 2800             | 1 26          |   |   |  |   | 284,000  | 74  | 270,000  | 74  | 258,000  | 72  | 236,000  | 64  | 190,000  | 50  |
| 111  | 3000             | 1 45          |   |   |  |   | 308,000  | 92  | 296,000  | 92  | 286,000  | 92  | 272,000  | 86  | 250,000  | 78  |
| 118  | 3200             | 1 65          |   |   |  |   | 334,000  | 110   | 322,000  | 110   | 314,000  | 110   | 302,000  | 110   | 288,000  | 105   |
| 125  | 3400             | 1 86          |   |   |  |   |  |   | 348,000  | 130   | 338,000  | 130   | 328,000  | 130   | 318,000  | 130   |
| 133  | 3600             | 2 10          |   |   |  |   |  |   | 372,000  | 160   | 362,000  | 160   | 354,000  | 160   | 344,000  | 160   |
| 140  | 3800             | 2 32          |   |   |  |   |  |   |  |   | 390,000  | 190   | 382,000  | 190   | 370,000  | 190   |
| 148  | 4000             | 2 58          |   |   |  |   |  |   |  |   | 414,000  | 220   | 406,000  | 220   | 396,000  | 220   |
| 155  | 4200             | 2 85          |   |   |  |   |  |   |  |   |  |   | 432,000  | 250   | 422,000  | 250   |
| 162  | 4400             | 3 13          |   |   |  |   |  |   |  |   |  |   | 456,000  | 290   | 448,000  | 290   |
| 170  | 4600             | 3 41          |   |   |  |   |  |   |  |   |  |   |  |   | 474,000  | 330   |
| 177  | 4800             | 3 7           |   |   |  |   |  |   |  |   |  |   |  |   | 500,000  | 380   |
| R.P.M.   | Tip Speed F.P.M. | S.N.D. inches | Static Pressure 1 1/2" Water .273 ozs. per sq. inch               | Static Pressure 1 3/4" Water .373 ozs. per sq. inch | Static Pressure 1 3/4" Water .473 ozs. per sq. inch                  | Static Pressure 1 3/4" Water .573 ozs. per sq. inch | Static Pressure 1 3/4" Water .673 ozs. per sq. inch                  | Static Pressure 1 3/4" Water .773 ozs. per sq. inch | Static Pressure 1 3/4" Water .873 ozs. per sq. inch                  | Static Pressure 1 3/4" Water .973 ozs. per sq. inch | Static Pressure 1 3/4" Water 1.07 ozs. per sq. inch              | Static Pressure 1 3/4" Water 1.16 ozs. per sq. inch | Static Pressure 1 3/4" Water 1.25 ozs. per sq. inch                  | Static Pressure 1 3/4" Water 1.34 ozs. per sq. inch | Static Pressure 1 3/4" Water 1.43 ozs. per sq. inch                  | Static Pressure 1 3/4" Water 1.52 ozs. per sq. inch |
| 111  | 3000             | 1 45          | 208,000   | 64  |  |   |  |   |  |   |  |   |  |   |  |   |
| 118  | 3200             | 1 65          | 266,000   | 94  |  |   |  |   |  |   |  |   |  |   |  |   |
| 125  | 3400             | 1 86          | 304,000   | 125   | 248,000  | 96  |  |   |  |   |  |   |  |   |  |   |
| 133  | 3600             | 2 10          | 336,000   | 155   | 302,000  | 135   | 226,000  | 100   |  |   |  |   |  |   |  |   |
| 140  | 3800             | 2 32          | 362,000   | 185   | 340,000  | 170   | 296,000  | 145   |  |   |  |   |  |   |  |   |
| 148  | 4000             | 2 58          | 386,000   | 220   | 370,000  | 210   | 340,000  | 190   | 286,000  | 155   |  |   |  |   |  |   |
| 155  | 4200             | 2 85          | 414,000   | 250   | 398,000  | 250   | 378,000  | 240   | 344,000  | 210   | 278,000  | 170   |  |   |  |   |
| 162  | 4400             | 3 13          | 442,000   | 290   | 424,000  | 290   | 410,000  | 280   | 386,000  | 260   | 346,000  | 230   |  |   |  |   |
| 170  | 4600             | 3 41          | 468,000   | 330   | 452,000  | 330   | 436,000  | 330   | 420,000  | 320   | 392,000  | 290   | 262,000  | 190   |  |   |
| 177  | 4800             | 3 70          | 490,000   | 380   | 476,000  | 380   | 464,000  | 380   | 450,000  | 370   | 428,000  | 340   | 348,000  | 270   |  |   |
| 184  | 5000             | 4 05          | 516,000   | 430   | 504,000  | 430   | 490,000  | 430   | 476,000  | 430   | 458,000  | 410   | 406,000  | 350   | 266,000  | 230   |
| 191  | 5250             | 4 44          |   |   | 536,000  | 500   | 524,000  | 500   | 508,000  | 500   | 496,000  | 480   | 458,000  | 430   | 382,000  | 350   |
| 203  | 5500             | 4 88          |   |   | 564,000  | 570   | 554,000  | 570   | 540,000  | 570   | 528,000  | 570   | 502,000  | 540   | 450,000  | 470   |
| 212  | 5750             | 5 33          |   |   | 596,000  | 650   | 584,000  | 650   | 574,000  | 650   | 562,000  | 650   | 538,000  | 610   | 502,000  | 580   |
| 221  | 6000             | 5 80          |   |   |  |   |  |   | 604,000  | 730   | 594,000  | 730   | 572,000  | 730   | 542,000  | 690   |
| 231  | 6250             | 6 30          |   |   |  |   |  |   | 636,000  | 820   | 628,000  | 820   | 604,000  | 820   | 582,000  | 810   |
| 240  | 6500             | 6 81          |   |   |  |   |  |   | 670,000  | 930   | 658,000  | 930   | 636,000  | 930   | 618,000  | 920   |
| 249  | 6750             | 7 34          |   |   |  |   |  |   | 700,000  | 1050  | 690,000  | 1050  | 670,000  | 1050  | 650,000  | 1050  |
| 258  | 7000             | 7 89          |   |   |  |   |  |   |  |   | 720,000  | 1170  | 702,000  | 1170  | 684,000  | 1170  |
| 277  | 7500             | 9 06          |   |   |  |   |  |   |  |   |  |   | 746,000  | 1440  | 746,000  | 1440  |
| 295  | 8000             | 10 32         |   |   |  |   |  |   |  |   |  |   | 810,000  | 1750  | 810,000  | 1750  |
| 313  | 8500             | 11 63         |   |   |  |   |  |   |  |   |  |   | 876,000  | 2100  | 876,000  | 2100  |
| 332  | 9000             | 13 05         |   |   |  |   |  |   |  |   |  |   | 936,000  | 2500  | 936,000  | 2500  |
| R.P.M.   | Tip Speed F.P.M. | S.N.D. inches | Static Pressure 3 1/2" Water 2.02 ozs. per sq. inch               | Static Pressure 4" Water 2.31 ozs. per sq. inch     | Static Pressure 5" Water 2.89 ozs. per sq. inch                      | Static Pressure 6" Water 3.47 ozs. per sq. inch     | Static Pressure 7" Water 4.05 ozs. per sq. inch                      | Static Pressure 8" Water 4.63 ozs. per sq. inch     | Static Pressure 9" Water 5.2 ozs. per sq. inch                       | Static Pressure 10" Water 5.78 ozs. per sq. inch    | Static Pressure 11" Water 6.36 ozs. per sq. inch                 | Static Pressure 12" Water 6.94 ozs. per sq. inch    | Static Pressure 13" Water 7.52 ozs. per sq. inch                     | Static Pressure 14" Water 8.10 ozs. per sq. inch    | Static Pressure 15" Water 8.68 ozs. per sq. inch                     | Static Pressure 16" Water 9.26 ozs. per sq. inch    |
| 203  | 5500             | 4 88          | 340,000   | 350   |  |   |  |   |  |   |  |   |  |   |  |   |
| 212  | 5750             | 5 33          | 436,000   | 490   | 278,000  | 320   |  |   |  |   |  |   |  |   |  |   |
| 221  | 6000             | 5 80          | 500,000   | 620   | 416,000  | 510   |  |   |  |   |  |   |  |   |  |   |
| 231  | 6250             | 6 30          | 552,000   | 750   | 496,000  | 630   |  |   |  |   |  |   |  |   |  |   |
| 240  | 6500             | 6 81          | 592,000   | 900   | 552,000  | 790   | 368,000  | 540   |  |   |  |   |  |   |  |   |
| 249  | 6750             | 7 34          | 628,000   | 1020  | 598,000  | 950   | 480,000  | 740   |  |   |  |   |  |   |  |   |
| 258  | 7000             | 7 89          | 664,000   | 1160  | 638,000  | 1110  | 556,000  | 900   |  |   |  |   |  |   |  |   |
| 277  | 7500             | 9 06          | 728,000   | 1440  | 710,000  | 1430  | 662,000  | 1290  | 562,000  | 1070  |  |   |  |   |  |   |
| 295  | 8000             | 10 32         | 792,000   | 1750  | 778,000  | 1750  | 741,000  | 1650  | 686,000  | 1520  | 570,000  | 1230  |  |   |  |   |
| 313  | 8500             | 11 63         | 858,000   | 2100  | 840,000  | 2100  | 810,000  | 2060  | 772,000  | 1960  | 708,000  | 1760  | 590,000  | 1440  |  |   |
| 332  | 9000             | 13 05         | 920,000   | 2500  | 906,000  | 2600  | 878,000  | 2500  | 840,000  | 2440  | 806,000  | 2280  | 740,000  | 2060  | 622,000  | 1700  |
| 350  | 9500             | 14 53         | 986,000   | 2920  | 970,000  | 2920  | 940,000  | 2920  | 912,000  | 2920  | 882,000  | 2860  | 840,000  | 2640  | 772,000  | 2380  |
| 369  | 10000            | 16 2          |   |   | 1,030,000  | 3440  | 1,010,000  | 3440  | 980,000  | 3440  | 950,000  | 3400  | 920,000  | 3280  | 882,000  | 3080  |

Double Inlet

## No. 22 Multivane Fan—Design 2

Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M. H.P. Static Pressure 1" Water .0722 ozs. per sq. inch | Volume C.F.M. H.P. Static Pressure 1½" Water .145 ozs. per sq. inch | Volume C.F.M. H.P. Static Pressure 2" Water .217 ozs. per sq. inch | Volume C.F.M. H.P. Static Pressure 2½" Water .289 ozs. per sq. inch | Volume C.F.M. H.P. Static Pressure 3" Water .361 ozs. per sq. inch | Volume C.F.M. H.P. Static Pressure 3½" Water .434 ozs. per sq. inch | Volume C.F.M. H.P. Static Pressure 4" Water .506 ozs. per sq. inch |
|--------|------------------|------------------|---|---|--|---|--|---|--|
| 35     | 1050             | 0 179            | 87,200 3 3  |   |  |   |  |   |  |
| 40     | 1200             | 0 233            | 133,000 6 7   |   |  |   |  |   |  |
| 46     | 1400             | 0 316            | 167,000 11 5  |   |  |   |  |   |  |
| 53     | 1600             | 0 412            | 200,000 16 5  | 105,000 14 5  |  |   |  |   |  |
| 59     | 1800             | 0 520            | 230,000 24  | 208,000 24  | 136,000 15   |   |  |   |  |
| 66     | 2000             | 0 645            |   | 242,000 34  | 212,000 29   |   |  |   |  |
| 73     | 2200             | 0 78             |   | 274,000 45  | 254,000 44   | 214,000 35  |  |   |  |
| 80     | 2400             | 0 93             |   | 306,000 58  | 286,000 58   | 264,000 54  | 216,000 42   |   |  |
| 86     | 2600             | 1 09             |   | 336,000 74  | 318,000 74   | 302,000 72  | 278,000 64   | 224,000 52  |  |
| 93     | 2800             | 1 26             |   |   | 350,000 92   | 334,000 92  | 320,000 88   | 292,000 78  | 236,000 62   |
| 100    | 3000             | 1 45             |   |   | 382,000 110  | 368,000 110   | 354,000 110  | 336,000 110   | 308,000 96   |
| 106    | 3200             | 1 65             |   |   | 412,000 140  | 398,000 140   | 386,000 140  | 372,000 135   | 356,000 130  |
| 113    | 3400             | 1 86             |   |   |  | 430,000 165   | 418,000 165  | 404,000 165   | 394,000 165  |
| 119    | 3600             | 2 10             |   |   |  | 460,000 195   | 448,000 195  | 438,000 195   | 426,000 195  |
| 126    | 3800             | 2 32             |   |   |  |   | 482,000 240  | 472,000 240   | 458,000 240  |
| 133    | 4000             | 2 58             |   |   |  |   | 510,000 270  | 502,000 270   | 490,000 270  |
| 139    | 4200             | 2 85             |   |   |  |   |  | 534,000 310   | 522,000 310  |
| 146    | 4400             | 3 13             |   |   |  |   |  | 564,000 360   | 554,000 360  |
| 153    | 4600             | 3 41             |   |   |  |   |  |   | 586,000 410  |
| 159    | 4800             | 3 7              |   |   |  |   |  |   | 616,000 470  |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 ozs. per sq. inch                     | Static Pressure 1½" Water .723 ozs. per sq. inch                    | Static Pressure 2" Water .878 ozs. per sq. inch                    | Static Pressure 2½" Water 1.01 ozs. per sq. inch                    | Static Pressure 3" Water 1.16 ozs. per sq. inch                    | Static Pressure 3½" Water 1.45 ozs. per sq. inch                    | Static Pressure 4" Water 1.73 ozs. per sq. inch                    |
| 100    | 3000             | 1 45             | 258,000 78  |   |  |   |  |   |  |
| 106    | 3200             | 1 65             | 328,000 115   |   |  |   |  |   |  |
| 113    | 3400             | 1 86             | 376,000 150   | 306,000 120   |  |   |  |   |  |
| 119    | 3600             | 2 10             | 411,000 190   | 372,000 170   | 280,000 125  |   |  |   |  |
| 126    | 3800             | 2 32             | 448,000 230   | 420,000 210   | 366,000 180  |   |  |   |  |
| 133    | 4000             | 2 58             | 478,000 270   | 456,000 260   | 420,000 230  | 354,000 190   |  |   |  |
| 139    | 4200             | 2 85             | 512,000 310   | 492,000 310   | 466,000 290  | 426,000 260   | 342,000 210  |   |  |
| 146    | 4400             | 3 13             | 546,000 360   | 526,000 360   | 506,000 350  | 478,000 320   | 428,000 280  |   |  |
| 153    | 4600             | 3 41             | 578,000 410   | 560,000 410   | 540,000 400  | 522,000 390   | 484,000 360  | 324,000 230   |  |
| 159    | 4800             | 3 70             | 608,000 470   | 590,000 470   | 572,000 470  | 556,000 460   | 528,000 420  | 430,000 230   |  |
| 166    | 5000             | 4 05             | 638,000 530   | 622,000 530   | 606,000 530  | 588,000 530   | 566,000 510  | 502,000 430   | 328,000 290  |
| 174    | 5250             | 4 44             |   | 660,000 620   | 646,000 620  | 628,000 620   | 612,000 600  | 566,000 540   | 472,000 440  |
| 182    | 5500             | 4 88             |   | 702,000 700   | 686,000 700  | 668,000 700   | 652,000 700  | 620,000 680   | 556,000 580  |
| 191    | 5750             | 5 33             |   | 738,000 800   | 724,000 800  | 710,000 800   | 696,000 800  | 666,000 790   | 620,000 720  |
| 199    | 6000             | 5 80             |   |   |  | 748,000 900   | 734,000 900  | 706,000 900   | 672,000 850  |
| 207    | 6250             | 6 30             |   |   |  | 786,000 1010  | 776,000 1010   | 746,000 1010  | 718,000 1000   |
| 216    | 6500             | 6 81             |   |   |  | 828,000 1150  | 812,000 1150   | 780,000 1150  | 762,000 1140   |
| 224    | 6750             | 7 34             |   |   |  | 864,000 1300  | 852,000 1300   | 828,000 1300  | 804,000 1300   |
| 232    | 7000             | 7 89             |   |   |  |   | 892,000 1450   | 868,000 1450  | 844,000 1450   |
| 249    | 7500             | 9 06             |   |   |  |   |  | 946,000 1780  | 922,000 1780   |
| 265    | 8000             | 10 32            |   |   |  |   |  |   | 1,000,000 2160   |
| 282    | 8500             | 11 63            |   |   |  |   |  |   | 1,080,000 2580   |
| 299    | 9000             | 13 05            |   |   |  |   |  |   | 1,160,000 3080   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 3½" Water 2.02 ozs. per sq. inch                    | Static Pressure 4" Water 2.31 ozs. per sq. inch                     | Static Pressure 5" Water 2.89 ozs. per sq. inch                    | Static Pressure 6" Water 3.47 ozs. per sq. inch                     | Static Pressure 7" Water 4.05 ozs. per sq. inch                    | Static Pressure 8" Water 4.63 ozs. per sq. inch                     | Static Pressure 9" Water 5.2 ozs. per sq. inch                     |
| 182    | 5500             | 4 88             | 420,000 430   |   |  |   |  |   |  |
| 191    | 5750             | 5 33             | 540,000 600   | 342,000 400   |  |   |  |   |  |
| 199    | 6000             | 5 80             | 616,000 770   | 514,000 630   |  |   |  |   |  |
| 207    | 6250             | 6 30             | 682,000 930   | 612,000 780   |  |   |  |   |  |
| 216    | 6500             | 6 81             | 730,000 1110  | 682,000 980   | 456,000 660  |   |  |   |  |
| 224    | 6750             | 7 34             | 776,000 1260  | 738,000 1170  | 594,000 910  |   |  |   |  |
| 232    | 7000             | 7 89             | 820,000 1430  | 788,000 1370  | 684,000 1150   |   |  |   |  |
| 249    | 7500             | 9 06             | 900,000 1780  | 878,000 1760  | 818,000 1600   | 696,000 1320  |  |   |  |
| 265    | 8000             | 10 32            | 980,000 2160  | 962,000 2160  | 976,000 2080   | 848,000 1680  |  |   |  |
| 282    | 8500             | 11 63            | 1,060,000 2580  | 1,040,000 2580  | 1,000,000 2540   |   | 706,000 1520   |   |  |
| 299    | 9000             | 13 05            | 1,140,000 3080  | 1,120,000 3080  | 1,080,000 3080   | 1,040,000 3020  | 996,000 2820   |   |  |
| 315    | 9500             | 14 53            | 1,220,000 3620  | 1,200,000 3620  | 1,160,000 3620   | 1,130,000 3600  | 1,090,000 3520   | 914,000 2540  | 770,000 2100   |
| 332    | 10000            | 16 2             |   | 1,380,000 4240  | 1,250,000 4540   | 1,210,000 4240  | 1,170,000 4200   | 1,140,000 4060  | 956,000 2940   |



| Double Inlet   |                     |                        | No. 24 Multivane Fan—Design 2                              |       |   |       |  |       |   |       |  |       | Double Width  |  |
|--|---------------------|------------------------|--|-------|---|-------|--|-------|---|-------|--|-------|---|--|
| When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances |                     |                        |  |       |   |       |  |       |   |       |  |       |   |  |
| R.P.M.   | Tip Speed<br>F.P.M. | S.N.D.<br>in<br>inches | Volume<br>C.F.M.   | H. P. | Volume<br>C.F.M.  | H. P. | Volume<br>C.F.M.   | H. P. | Volume<br>C.F.M.  | H. P. | Volume<br>C.F.M.   | H. P. | Volume<br>C.F.M.  | H. P.  |
|  |                     |                        | Static Pressure<br>1½" Water<br>.0722 ozs. per<br>sq. inch |       | Static Pressure<br>1½" Water<br>.145 ozs. per<br>sq. inch |       | Static Pressure<br>2" Water<br>.217 ozs. per<br>sq. inch |       | Static Pressure<br>2½" Water<br>.289 ozs. per<br>sq. inch |       | Static Pressure<br>3" Water<br>.361 ozs. per<br>sq. inch |       | Static Pressure<br>3½" Water<br>.434 ozs. per<br>sq. inch | Static Pressure<br>4" Water<br>.506 ozs. per<br>sq. inch |
| 32   | 1050                | 0 179                  | 106,000  | 3 9   |   |       |  |       |   |       |  |       |   |  |
| 37   | 1200                | 0 233                  | 161,000  | 8 1   |   |       |  |       |   |       |  |       |   |  |
| 42   | 1400                | 0 316                  | 202,000  | 14    |   |       |  |       |   |       |  |       |   |  |
| 49   | 1600                | 0 412                  | 242,000  | 20    | 199,000   | 17 5  |  |       |   |       |  |       |   |  |
| 55   | 1800                | 0 520                  | 278,000  | 29    | 250,000   | 29    | 104,000  | 18    |   |       |  |       |   |  |
| 60   | 2000                | 0 645                  |  |       | 292,000   | 11    | 256,000  | 36    |   |       |  |       |   |  |
| 67   | 2200                | 0 78                   |  |       | 332,000   | 54    | 306,000  | 54    | 258,000   | 42    |  |       |   |  |
| 73   | 2400                | 0 93                   |  |       | 372,000   | 70    | 346,000  | 70    | 320,000   | 64    | 262,000  | 52    |   |  |
| 79   | 2600                | 1 09                   |  |       | 406,000   | 90    | 384,000  | 90    | 366,000   | 86    | 336,000  | 78    | 270,000   | 62   |
| 85   | 2800                | 1 26                   |  |       | 424,000   | 110   | 404,000  | 110   | 386,000   | 110   | 354,000  | 94    | 354,000   | 94   |
| 91   | 3000                | 1 45                   |  |       | 462,000   | 135   | 444,000  | 140   | 428,000   | 135   | 406,000  | 130   | 374,000   | 115  |
| 97   | 3200                | 1 65                   |  |       | 500,000   | 170   | 482,000  | 170   | 468,000   | 170   | 450,000  | 165   | 430,000   | 155  |
| 103  | 3400                | 1 86                   |  |       |   |       | 520,000  | 195   | 506,000   | 195   | 490,000  | 195   | 476,000   | 195  |
| 109  | 3600                | 2 10                   |  |       |   |       | 558,000  | 240   | 544,000   | 240   | 528,000  | 240   | 516,000   | 240  |
| 115  | 3800                | 2 32                   |  |       |   |       |  | 290   | 582,000   | 290   | 570,000  | 290   | 556,000   | 290  |
| 121  | 4000                | 2 58                   |  |       |   |       |  | 330   | 618,000   | 330   | 608,000  | 330   | 592,000   | 330  |
| 127  | 4200                | 2 85                   |  |       |   |       |  | 380   |   |       | 626,000  | 380   | 632,000   | 380  |
| 133  | 4400                | 3 13                   |  |       |   |       |  | 430   |   |       | 680,000  | 430   | 668,000   | 430  |
| 140  | 4600                | 3 41                   |  |       |   |       |  | 500   |   |       | 708,000  | 500   | 708,000   | 500  |
| 145  | 4800                | 3 7                    |  |       |   |       |  | 560   |   |       | 746,000  | 560   | 746,000   | 560  |
| R.P.M.   | Tip Speed<br>F.P.M. | S.N.D.<br>in<br>inches | Static Pressure<br>1" Water<br>.578 ozs. per<br>sq. inch   |       | Static Pressure<br>1½" Water<br>.723 ozs. per<br>sq. inch |       | Static Pressure<br>2" Water<br>.878 ozs. per<br>sq. inch |       | Static Pressure<br>2½" Water<br>1.01 ozs. per<br>sq. inch |       | Static Pressure<br>3" Water<br>1.16 ozs. per<br>sq. inch |       | Static Pressure<br>3½" Water<br>1.45 ozs. per<br>sq. inch | Static Pressure<br>4" Water<br>1.73 ozs. per<br>sq. inch |
| 91   | 3000                | 1 15                   | 310,000  | 94    |   |       |  |       |   |       |  |       |   |  |
| 97   | 3200                | 1 65                   | 396,000  | 140   |   |       |  |       |   |       |  |       |   |  |
| 103  | 3400                | 1 86                   | 454,000  | 185   | 372,000   | 145   |  |       |   |       |  |       |   |  |
| 109  | 3600                | 2 10                   | 500,000  | 230   | 452,000   | 200   | 338,000  | 150   |   |       |  |       |   |  |
| 115  | 3800                | 2 32                   | 542,000  | 280   | 508,000   | 260   | 442,000  | 220   |   |       |  |       |   |  |
| 121  | 4000                | 2 58                   | 578,000  | 330   | 552,000   | 320   | 510,000  | 280   | 428,000   | 230   |  |       |   |  |
| 127  | 4200                | 2 85                   | 620,000  | 380   | 596,000   | 370   | 564,000  | 360   | 516,000   | 300   | 414,000  | 250   |   |  |
| 133  | 4400                | 3 13                   | 660,000  | 430   | 636,000   | 430   | 612,000  | 420   | 576,000   | 390   | 516,000  | 340   |   |  |
| 140  | 4600                | 3 41                   | 700,000  | 500   | 676,000   | 500   | 654,000  | 490   | 630,000   | 470   | 586,000  | 430   | 390,000   | 280  |
| 145  | 4800                | 3 70                   | 734,000  | 560   | 712,000   | 560   | 692,000  | 560   | 672,000   | 550   | 640,000  | 510   | 520,000   | 400  |
| 151  | 5000                | 4 05                   | 772,000  | 640   | 752,000   | 640   | 732,000  | 640   | 710,000   | 640   | 686,000  | 620   | 606,000   | 520  |
| 159  | 5250                | 4 44                   |  |       | 800,000   | 740   | 782,000  | 740   | 760,000   | 740   | 740,000  | 730   | 684,000   | 650  |
| 167  | 5500                | 4 88                   |  |       | 844,000   | 850   | 828,000  | 850   | 806,000   | 850   | 790,000  | 850   | 750,000   | 800  |
| 174  | 5750                | 5 33                   |  |       | 890,000   | 970   | 874,000  | 970   | 858,000   | 970   | 840,000  | 970   | 806,000   | 950  |
| 181  | 6000                | 5 80                   |  |       |   |       |  |       | 904,000   | 1090  | 890,000  | 1090  | 854,000   | 1090   |
| 189  | 6250                | 6 30                   |  |       |   |       |  |       | 952,000   | 1220  | 938,000  | 1220  | 902,000   | 1220   |
| 197  | 6500                | 6 81                   |  |       |   |       |  |       | 1,000,000   | 1380  | 982,000  | 1380  | 952,000   | 1380   |
| 204  | 6750                | 7 34                   |  |       |   |       |  |       | 1,050,000   | 1570  | 1,030,000  | 1570  | 1,000,000   | 1570   |
| 211  | 7000                | 7 89                   |  |       |   |       |  |       |   |       | 1,080,000  | 1760  | 1,050,000   | 1760   |
| 226  | 7500                | 9 06                   |  |       |   |       |  |       |   |       | 1,140,000  | 2160  | 1,120,000   | 2160   |
| 241  | 8000                | 10 32                  |  |       |   |       |  |       |   |       |  |       | 1,210,000   | 2620   |
| 250  | 8500                | 11 63                  |  |       |   |       |  |       |   |       |  |       | 1,310,000   | 3160   |
| 271  | 9000                | 13 05                  |  |       |   |       |  |       |   |       |  |       | 1,400,000   | 3740   |
| R.P.M.   | Tip Speed<br>F.P.M. | S.N.D.<br>in<br>inches | Static Pressure<br>3½" Water<br>2.02 ozs. per<br>sq. inch  |       | Static Pressure<br>4" Water<br>2.31 ozs. per<br>sq. inch  |       | Static Pressure<br>5" Water<br>2.89 ozs. per<br>sq. inch |       | Static Pressure<br>6" Water<br>3.47 ozs. per<br>sq. inch  |       | Static Pressure<br>7" Water<br>4.05 ozs. per<br>sq. inch |       | Static Pressure<br>8" Water<br>4.63 ozs. per<br>sq. inch  | Static Pressure<br>9" Water<br>5.2 ozs. per<br>sq. inch  |
| 167  | 5500                | 4 88                   | 508,000  | 520   |   |       |  |       |   |       |  |       |   |  |
| 174  | 5750                | 5 33                   | 652,000  | 730   | 414,000   | 480   |  |       |   |       |  |       |   |  |
| 181  | 6000                | 5 80                   | 746,000  | 930   | 622,000   | 760   |  |       |   |       |  |       |   |  |
| 189  | 6250                | 6 30                   | 824,000  | 1120  | 740,000   | 950   |  |       |   |       |  |       |   |  |
| 197  | 6500                | 6 81                   | 884,000  | 1310  | 826,000   | 1180  | 550,000  | 800   |   |       |  |       |   |  |
| 204  | 6750                | 7 34                   | 938,000  | 1530  | 892,000   | 1420  | 718,000  | 1100  |   |       |  |       |   |  |
| 211  | 7000                | 7 89                   | 992,000  | 1730  | 952,000   | 1650  | 832,000  | 1340  |   |       |  |       |   |  |
| 226  | 7500                | 9 06                   | 1,090,000  | 2160  | 1,060,000   | 2140  | 988,000  | 1930  | 840,000   | 1600  |  |       |   |  |
| 241  | 8000                | 10 32                  | 1,180,000  | 2620  | 1,160,000   | 2620  | 1,110,000  | 2500  | 1,030,000   | 2280  | 852,000  | 1830  |   |  |
| 256  | 8500                | 11 63                  | 1,280,000  | 3160  | 1,260,000   | 3160  | 1,210,000  | 3080  | 1,160,000   | 2940  | 1,060,000  | 2640  | 882,000   | 2160   |
| 271  | 9000                | 13 05                  | 1,380,000  | 3740  | 1,350,000   | 3740  | 1,310,000  | 3740  | 1,260,000   | 3640  | 1,200,000  | 3420  | 1,100,000   | 3060   |
| 287  | 9500                | 14 53                  | 1,470,000  | 4360  | 1,450,000   | 4360  | 1,400,000  | 4360  | 1,370,000   | 4360  | 1,320,000  | 4260  | 1,260,000   | 3940   |
| 302  | 10000               | 16 2                   |  |       | 1,540,000   | 5140  | 1,500,000  | 5140  | 1,460,000   | 5140  | 1,420,000  | 5080  | 1,380,000   | 4920   |
|  |                     |                        |  |       |   |       |  |       |   |       |  |       | 1,320,000   | 4600   |

• Double Inlet **No. 26 Multivane Fan—Design 2** Double Width  
 • When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.                                       | H.P. | Volume C.F.M.                                       | H.P. | Volume C.F.M.                                       | H.P. | Volume C.F.M.                                       | H.P. | Volume C.F.M.                                       | H.P. | Volume C.F.M.                                     | H.P. | Volume C.F.M.                                       | H.P. |
|--------|------------------|------------------|---|------|---|------|---|------|---|------|---|------|---|------|---|------|
|        |                  |                  | Static Pressure 1/8" Water .0722 ozs. per sq. inch  |      | Static Pressure 1/4" Water .145 ozs. per sq. inch   |      | Static Pressure 3/8" Water .217 ozs. per sq. inch   |      | Static Pressure 1/2" Water .289 ozs. per sq. inch   |      | Static Pressure 5/8" Water .361 ozs. per sq. inch   |      | Static Pressure 3/4" Water .434 ozs. per sq. inch |      | Static Pressure 7/8" Water .506 ozs. per sq. inch   |      |
| 29     | 1050             | 0.179            | 126,000   | 4.7  |   |      |   |      |   |      |   |      |   |      |   |      |
| 34     | 1200             | 0.233            | 191,000   | 9.7  |   |      |   |      |   |      |   |      |   |      |   |      |
| 39     | 1400             | 0.316            | 240,000   | 16.5 |   |      |   |      |   |      |   |      |   |      |   |      |
| 44     | 1600             | 0.412            | 288,000   | 24   | 238,000   | 21   |   |      |   |      |   |      |   |      |   |      |
| 50     | 1800             | 0.520            | 332,000   | 34   | 298,000   | 34   | 185,000   | 22   |   |      |   |      |   |      |   |      |
| 56     | 2000             | 0.645            |   |      | 348,000   | 49   | 306,000   | 42   |   |      |   |      |   |      |   |      |
| 61     | 2200             | 0.78             |   |      | 436,000   | 64   | 364,000   | 64   | 308,000   | 52   |   |      |   |      |   |      |
| 67     | 2400             | 0.93             |   |      | 484,000   | 84   | 412,000   | 84   | 380,000   | 76   | 312,000   | 62   |   |      |   |      |
| 72     | 2600             | 1.09             |   |      |   |      | 458,000   | 110  | 434,000   | 105  | 400,000   | 94   | 322,000   | 74   |   |      |
| 78     | 2800             | 1.26             |   |      |   |      | 506,000   | 130  | 482,000   | 130  | 460,000   | 110  | 420,000   | 110  | 338,000   | 90   |
| 83     | 3000             | 1.45             |   |      |   |      | 550,000   | 165  | 528,000   | 165  | 508,000   | 165  | 484,000   | 150  | 444,000   | 135  |
| 89     | 3200             | 1.65             |   |      |   |      | 594,000   | 200  | 572,000   | 200  | 556,000   | 200  | 536,000   | 195  | 512,000   | 185  |
| 94     | 3400             | 1.86             |   |      |   |      |   |      | 620,000   | 240  | 602,000   | 240  | 584,000   | 240  | 568,000   | 230  |
| 100    | 3600             | 2.10             |   |      |   |      |   |      | 664,000   | 280  | 646,000   | 280  | 630,000   | 280  | 614,000   | 280  |
| 106    | 3800             | 2.32             |   |      |   |      |   |      |   |      | 692,000   | 340  | 680,000   | 340  | 660,000   | 340  |
| 111    | 4000             | 2.58             |   |      |   |      |   |      |   |      | 736,000   | 390  | 724,000   | 390  | 704,000   | 390  |
| 116    | 4200             | 2.85             |   |      |   |      |   |      |   |      |   |      | 768,000   | 450  | 752,000   | 450  |
| 122    | 4400             | 3.13             |   |      |   |      |   |      |   |      |   |      | 810,000   | 520  | 796,000   | 520  |
| 128    | 4600             | 3.41             |   |      |   |      |   |      |   |      |   |      |   |      | 844,000   | 590  |
| 133    | 4800             | 3.7              |   |      |   |      |   |      |   |      |   |      |   |      | 888,000   | 670  |
|        |                  |                  | Static Pressure 1" Water .578 ozs. per sq. inch     |      | Static Pressure 1 1/8" Water .723 ozs. per sq. inch |      | Static Pressure 1 1/4" Water .878 ozs. per sq. inch |      | Static Pressure 1 1/2" Water 1.01 ozs. per sq. inch |      | Static Pressure 1 3/4" Water 1.16 ozs. per sq. inch |      | Static Pressure 2" Water 1.45 ozs. per sq. inch   |      | Static Pressure 2 1/8" Water 1.73 ozs. per sq. inch |      |
| 83     | 3000             | 1.45             | 370,000   | 110  |   |      |   |      |   |      |   |      |   |      |   |      |
| 89     | 3200             | 1.65             | 472,000   | 170  |   |      |   |      |   |      |   |      |   |      |   |      |
| 94     | 3400             | 1.86             | 540,000   | 220  | 412,000   | 170  |   |      |   |      |   |      |   |      |   |      |
| 100    | 3600             | 2.10             | 596,000   | 280  | 536,000   | 240  | 402,000   | 180  |   |      |   |      |   |      |   |      |
| 106    | 3800             | 2.32             | 644,000   | 330  | 606,000   | 310  | 526,000   | 260  |   |      |   |      |   |      |   |      |
| 111    | 4000             | 2.58             | 688,000   | 390  | 658,000   | 380  | 606,000   | 340  | 510,000   | 280  |   |      |   |      |   |      |
| 116    | 4200             | 2.85             | 738,000   | 450  | 710,000   | 440  | 672,000   | 420  | 614,000   | 370  | 494,000   | 300  |   |      |   |      |
| 122    | 4400             | 3.13             | 786,000   | 520  | 756,000   | 520  | 728,000   | 500  | 686,000   | 460  | 616,000   | 410  |   |      |   |      |
| 128    | 4600             | 3.41             | 832,000   | 590  | 806,000   | 590  | 778,000   | 580  | 750,000   | 560  | 698,000   | 510  | 466,000   | 340  |   |      |
| 133    | 4800             | 3.70             | 874,000   | 670  | 848,000   | 670  | 824,000   | 670  | 800,000   | 660  | 760,000   | 610  | 620,000   | 480  |   |      |
| 139    | 5000             | 4.05             | 920,000   | 760  | 896,000   | 760  | 872,000   | 760  | 846,000   | 760  | 816,000   | 730  | 720,000   | 620  | 472,000   | 410  |
| 146    | 5250             | 4.44             |   |      | 950,000   | 890  | 930,000   | 890  | 904,000   | 890  | 880,000   | 860  | 816,000   | 770  | 678,000   | 630  |
| 153    | 5500             | 4.88             |   |      | 1,004,000   | 1010 | 988,000   | 1010 | 960,000   | 1010 | 940,000   | 1010 | 892,000   | 950  | 800,000   | 830  |
| 160    | 5750             | 5.33             |   |      | 1,062,000   | 1150 | 1,040,000   | 1150 | 1,020,000   | 1150 | 1,000,000   | 1150 | 958,000   | 1130 | 892,000   | 1030 |
| 166    | 6000             | 5.80             |   |      |   |      |   |      | 1,080,000   | 1300 | 1,060,000   | 1300 | 1,020,000   | 1300 | 986,000   | 1220 |
| 173    | 6250             | 6.30             |   |      |   |      |   |      | 1,130,000   | 1460 | 1,120,000   | 1460 | 1,100,000   | 1460 | 1,080,000   | 1440 |
| 180    | 6500             | 6.81             |   |      |   |      |   |      | 1,190,000   | 1660 | 1,170,000   | 1660 | 1,130,000   | 1660 | 1,100,000   | 1640 |
| 187    | 6750             | 7.34             |   |      |   |      |   |      | 1,250,000   | 1870 | 1,230,000   | 1870 | 1,190,000   | 1870 | 1,160,000   | 1870 |
| 194    | 7000             | 7.89             |   |      |   |      |   |      |   |      | 1,280,000   | 2100 | 1,220,000   | 2100 | 1,200,000   | 2100 |
| 207    | 7500             | 9.06             |   |      |   |      |   |      |   |      |   |      | 1,360,000   | 2360 | 1,330,000   | 2560 |
| 221    | 8000             | 10.32            |   |      |   |      |   |      |   |      |   |      |   |      | 1,440,000   | 3120 |
| 235    | 8500             | 11.63            |   |      |   |      |   |      |   |      |   |      |   |      | 1,560,000   | 3720 |
| 249    | 9000             | 13.05            |   |      |   |      |   |      |   |      |   |      |   |      | 1,670,000   | 4440 |
|        |                  |                  | Static Pressure 3 1/2" Water 2.02 ozs. per sq. inch |      | Static Pressure 4" Water 2.31 ozs. per sq. inch     |      | Static Pressure 5" Water 2.89 ozs. per sq. inch     |      | Static Pressure 6" Water 3.47 ozs. per sq. inch     |      | Static Pressure 7" Water 4.05 ozs. per sq. inch     |      | Static Pressure 8" Water 4.63 ozs. per sq. inch   |      | Static Pressure 9" Water 5.2 ozs. per sq. inch      |      |
| 153    | 5500             | 4.88             | 604,000   | 620  |   |      |   |      |   |      |   |      |   |      |   |      |
| 160    | 5750             | 5.33             | 778,000   | 870  | 494,000   | 570  |   |      |   |      |   |      |   |      |   |      |
| 166    | 6000             | 5.80             | 888,000   | 1100 | 740,000   | 900  |   |      |   |      |   |      |   |      |   |      |
| 173    | 6250             | 6.30             | 980,000   | 1320 | 880,000   | 1130 |   |      |   |      |   |      |   |      |   |      |
| 180    | 6500             | 6.81             | 1,050,000   | 1600 | 982,000   | 1410 | 656,000   | 950  |   |      |   |      |   |      |   |      |
| 187    | 6750             | 7.34             | 1,120,000   | 1820 | 1,060,000   | 1690 | 856,000   | 1310 |   |      |   |      |   |      |   |      |
| 194    | 7000             | 7.89             | 1,180,000   | 2060 | 1,130,000   | 1970 | 990,000   | 1600 |   |      |   |      |   |      |   |      |
| 207    | 7500             | 9.06             | 1,300,000   | 2560 | 1,260,000   | 2540 | 1,180,000   | 2300 | 1,000,000   | 1910 |   |      |   |      |   |      |
| 221    | 8000             | 10.32            | 1,410,000   | 3120 | 1,390,000   | 3120 | 1,320,000   | 2900 | 1,220,000   | 2700 | 1,020,000   | 2180 |   |      |   |      |
| 235    | 8500             | 11.63            | 1,530,000   | 3720 | 1,500,000   | 3720 | 1,440,000   | 3660 | 1,370,000   | 3480 | 1,260,000   | 3140 | 1,050,000   | 2560 |   |      |
| 249    | 9000             | 13.05            | 1,640,000   | 4440 | 1,610,000   | 4440 | 1,570,000   | 4440 | 1,500,000   | 4340 | 1,430,000   | 4060 | 1,310,000   | 3660 | 1,110,000   | 3040 |
| 262    | 9500             | 14.53            | 1,750,000   | 5200 | 1,730,000   | 5200 | 1,670,000   | 5200 | 1,620,000   | 5200 | 1,570,000   | 5080 | 1,490,000   | 4700 | 1,370,000   | 4240 |
| 276    | 10000            | 16.2             |   |      | 1,840,000   | 6100 | 1,790,000   | 6100 | 1,750,000   | 6100 | 1,690,000   | 6060 | 1,640,000   | 5860 | 1,570,000   | 5480 |



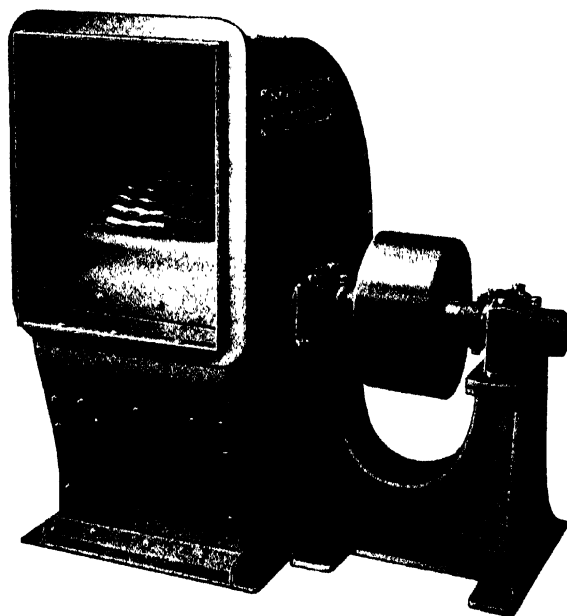
# **MULTIVANE FANS**

## **Design 3**

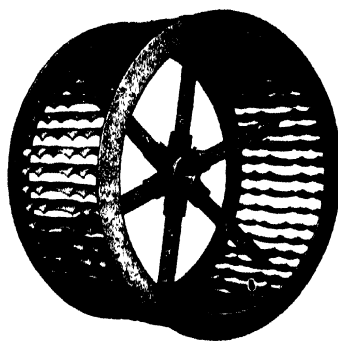
**Dimensions, Capacities, Horse Powers**



## Multivane Fan—Design 3



Design No. 3 Multivane Fan



Design No. 3 Multivane Wheel

# MULTIVANE FAN—DESIGN 3

## SPECIFICATIONS

**General.** There shall be furnished a No. ...., design No. 3, Sturtevant Multivane Fan. It shall be made (single or double) ..... inlet, (single or double) ..... width, (right or left) ..... hand, ..... discharge and have (full or  $\frac{3}{8}$ ) ..... housing. The wheel shall be not less than ..... " diameter. The outlet shall be ..... " by ..... ", the diameter of the inlet shall be ..... ". The total height of the fan housing shall be ..... ", the width in direction of shaft ..... ", and the length transverse to shaft ..... ".

The fan shall have a capacity of ..... cubic feet per minute against a resistance of ..... " water gauge either at the inlet or at the outlet (or at both taking the sum) and shall operate at approximately ..... R.P.M., requiring approximately ..... B.H.P.

**Housing.** The housing shall be of spiral form constructed of steel plate strongly braced, bolted and riveted to a rigid frame of angle irons. The side plates and round-about sheet shall be made of No. 11 gauge for fans above 45" high. The smaller sizes shall have these parts made of No. 14 gauge plate. The outlet shall be rectangular in shape and consist of angle irons bolted to the housing and arranged for connection to a discharge duct. The inlet shall be of cone shape and so constructed as to allow the wheel to be taken out through the opening caused by the removal of the cone. In the single inlet fan the side opposite the inlet shall be closed by a dished plate bolted to the side of the housing. The cutoff piece shall be made of a sheet bent 180 degrees upon itself and having the two ends bolted to the spiral sheet, thus leaving no edges of metal which can in any way be acted upon by the air issuing from the outlet so as to produce vibration, and therefore, noise at this point.

**Wheel.** The blades of the wheel shall be made of refined steel plate and spooned with spherical depressions to efficiently handle the air. The blades shall be pressed and formed while hot by means of punch and die to insure uniformity and strength in the blades throughout the wheel. The hub shall be made of cast iron having cast integral with it and emanating from it, steel arms of "T" section. The hub shall be accurately bored and fitted with keyway and set screws. The blades shall be riveted at either end to annular steel plate rings or side plates. The holes through which the blades are riveted to the side plates shall be punched to template, as well as the blades themselves, to insure the proper position of each blade in the wheel. For diameters above 46", a third annular ring shall be placed in the center of the wheel, and two hubs used instead of one. The outer ends of the "T" arms emanating from the hub shall be riveted to the center portion of the driving blades which shall be of thicker metal than the intermediate blades. The wheel shall be absolutely symmetrical either side of its center, and having no back plate can be used for either a right or left hand fan, and have either single or double inlet. The wheel shall be very carefully balanced.

**Bearings.** The bearings shall be of the spherical self-aligning ring oiled type and bolted to their support. They shall be of large diameter and built extra long to give ample bearing surface. Each bearing shall be fitted with two oil rings which feed oil on to the shaft from a large oil well located in the bottom part of the box. The bearings shall be lined with the best quality babbit, containing upwards of 85% tin, bored and scraped to exact size.

**Shaft.** The shaft shall be made of steel forging and after the keyways are cut, shall be accurately turned and ground.

# MULTIVANE FAN—DESIGN 3

## EXPLANATION OF SPECIFICATION REQUIREMENTS

**Noise.** Special attention is called to the construction of the cut-off point, which, considering fans in general, is the seat of most noise in the nature of a sustained metallic note. Obviously any edge of metal whether directly or indirectly in the flow of air can be acted upon more or less like a reed and the design of cut-off in this fan avoids this condition.

The flow of air over the surfaces in a fan wheel and casing obviously produces any noise which may exist (a fan wheel revolving in a vacuum will produce no noise, assuming of course, proper mechanical balance in the wheel). The noise is also a function of the velocity of flow. In this fan the velocity at all points as the air passes through the wheel is lower than in the general run of fans of this type or as used for this service, thereby operating against the production of noise.

**Distribution of Work and Stresses.** The spherical depressions grip the air and prevent it from slipping along the blade to the side of the wheel opposite the inlet, thus distributing the work along the entire length of the blade.

The driving arms of the hub being attached to the center of the driving blades, in other words at a point one-half way along their axial length, produce a construction in which the stresses coming upon it in operation are perfectly distributed and balanced.

**Strength and Rigidity.** Not only is the driving effort applied at the logical and proper point but this has the added feature of holding the wheel in shape and preventing the blades from bowing out. Each blade is like a uniformly loaded beam when the fan is in operation, that is, centrifugal force is acting alike on each element of the blade. Under high speed an improperly designed wheel will first show signs of failing in the bulging or bowing out of the blades at their center, which in turn moves the two side plates nearer together. Without a center support construction there is nothing to stop the movement of the side plates toward each other except the ability of the blade to resist bending (not stretching). With the center support construction, however, the driving blades are tied down at their center by their connection to the driving arms, thus producing a strut or spacing piece at each point where the driving blade is located which will not permit the side plates to move toward each other. The intermediate blades, therefore, to bulge or bow out must either stretch themselves or pull the rivets.

**Additional Strength in Larger Sizes.** In sizes No. 10 and above the center annulus carries out to a much greater degree the strengthening feature of tying the blades at the center, thereby doing away with any chance of bowing out. That is, every blade in the wheel is tied down at the center. The spider arm construction with center support is considerably stronger than the usual designs of wheel supported from the back.

**Wearing Qualities.** Barring the metal of the fan itself being subjected to violent corrosion or chemical action of gases handled by the fan the brunt in the long run is borne by the shaft and bearings. Therefore, for long satisfactory service a shaft which is carefully turned and ground to gauge running in bearings containing a very high quality babbit metal is bound to show its worth.



## **Multivane Fan—Design 3**

### **EXPLANATION OF TABLES**

These fans have very large outlets compared to their capacity and consequently they have low outlet velocities. The large outlet when connected to a pipe of the same size produces a chimney effect which converts a large part of the velocity in the casing into useful pressure. These fans should not be used without a pipe upon the outlet because without the pipe the conversion effect is largely lost. Neither should they be used upon a pipe of less area than the outlet of the fan.

Other than the above exception the general explanation of tables at the front of this book applies.

## Multivane Fan—Design 3

### APPROXIMATE WEIGHTS

| FULL HOUSING                  |                |                 |
|-------------------------------|----------------|-----------------|
| Size                          | Overhung Wheel | Overhung Pulley |
| 2                             | 225            | 225             |
| 3                             | 320            | 320             |
| 4                             | 470            | 420             |
| 5                             | 640            | 640             |
| 6                             | 840            | 580             |
| 6 <sup>1</sup> / <sub>2</sub> | 1040           | 750             |
| 7                             | 1240           | 925             |
| 8                             | 1800           | 1260            |
| 9                             | 2440           | 1750            |
| 10                            | 3000           | 2450            |
| 11                            | 3675           | 3050            |
| 12                            | 4350           | 3700            |
| 13                            | 5100           | 4600            |
| 14                            | 6050           | 5350            |
| 15                            | 7350           | 6650            |
| 16                            | 8850           | 7800            |
| 17                            | 10400          | 9360            |
| ¾ HOUSING ONLY                |                |                 |
| 18                            |                | 8950            |
| 20                            |                | 11800           |
| 22                            |                | 15300           |
| 24                            |                | 18650           |
| 26                            |                | 23700           |

Single Inlet

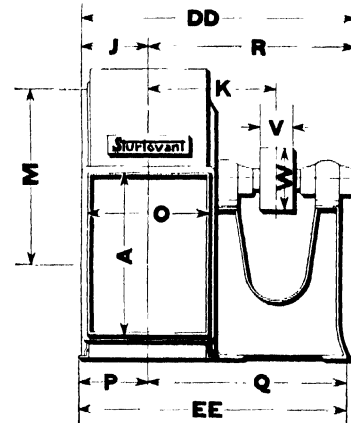
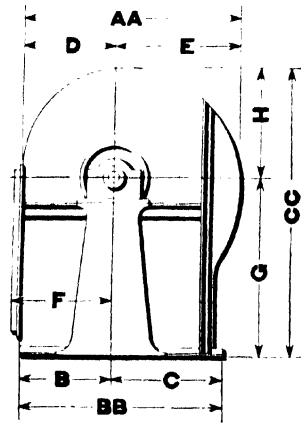
## Multivane Fan—Design 3

Single Width

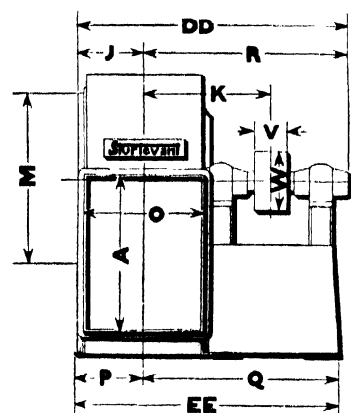
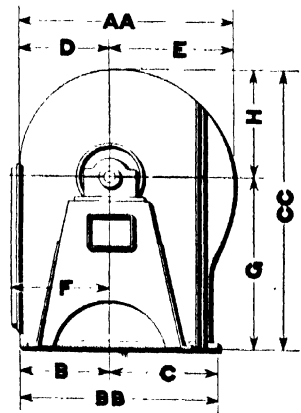
Full Housing

Bottom Horizontal Discharge

Overhung Wheel



| Size  | A  | B  | C  | D  | E  | F  | G  | H  | J  | K  | M  | O  | P  | Q  | R  | V  | W  | AA | BB | CC  | DD | EE | Extreme Wheel Diameter | Shaft Diameter | Anchor Bolts |     |
|-------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|----|----|------------------------|----------------|--------------|-----|
|       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |                        |                | Hanger       | Fan |
| 2     | 13 | 7  | 9  | 10 | 11 | 12 | 13 | 14 | 5  | 11 | 13 | 10 | 6  | 18 | 19 | 3  | 6  | 17 | 17 | 23  | 25 | 25 | 13                     | 1              | 1            | 1   |
| 3     | 16 | 9  | 11 | 12 | 13 | 14 | 15 | 16 | 7  | 14 | 17 | 12 | 8  | 22 | 23 | 4  | 7  | 22 | 21 | 29  | 30 | 30 | 16                     | 1              | 1            | 1   |
| 4     | 19 | 11 | 13 | 14 | 15 | 16 | 17 | 18 | 8  | 15 | 20 | 14 | 9  | 25 | 26 | 5  | 8  | 26 | 24 | 35  | 31 | 34 | 19                     | 1              | 1            | 1   |
| 5     | 22 | 13 | 15 | 16 | 17 | 18 | 19 | 20 | 9  | 17 | 24 | 17 | 10 | 27 | 28 | 5  | 10 | 31 | 28 | 40  | 38 | 38 | 23                     | 1              | 1            | 1   |
| 6     | 25 | 15 | 17 | 18 | 19 | 20 | 21 | 22 | 11 | 20 | 27 | 19 | 12 | 33 | 33 | 6  | 12 | 35 | 32 | 47  | 45 | 45 | 26                     | 1              | 1            | 1   |
| 6 1/2 | 28 | 17 | 19 | 20 | 21 | 22 | 23 | 24 | 12 | 22 | 30 | 22 | 13 | 35 | 35 | 6  | 13 | 39 | 36 | 52  | 47 | 49 | 29                     | 1              | 1            | 1   |
| 7     | 31 | 18 | 21 | 22 | 23 | 24 | 25 | 26 | 14 | 24 | 34 | 24 | 14 | 39 | 38 | 7  | 14 | 44 | 40 | 57  | 52 | 53 | 32                     | 1              | 1            | 1   |
| 8     | 38 | 22 | 26 | 27 | 28 | 29 | 30 | 31 | 16 | 28 | 40 | 29 | 16 | 44 | 43 | 9  | 16 | 53 | 48 | 67  | 60 | 61 | 39                     | 1              | 1            | 1   |
| 9     | 44 | 26 | 30 | 31 | 32 | 33 | 34 | 35 | 18 | 32 | 47 | 34 | 20 | 50 | 50 | 10 | 18 | 62 | 57 | 78  | 69 | 71 | 45                     | 1              | 1            | 1   |
| 10    | 50 | 30 | 34 | 35 | 36 | 37 | 38 | 39 | 21 | 36 | 54 | 38 | 22 | 55 | 55 | 10 | 20 | 70 | 64 | 89  | 76 | 78 | 52                     | 1              | 1            | 1   |
| 11    | 56 | 33 | 38 | 39 | 40 | 41 | 42 | 43 | 23 | 40 | 61 | 43 | 25 | 61 | 61 | 12 | 22 | 79 | 71 | 100 | 84 | 86 | 58                     | 2              | 1            | 1   |



| Size | A  | B  | C  | D  | E  | F  | G  | H  | J  | K  | M   | O  | P  | Q  | R  | V  | W  | AA  | BB  | CC  | DD  | EE  | Extreme Wheel Diameter | Shaft Diameter | Anchor Bolts |     |
|------|----|----|----|----|----|----|----|----|----|----|-----|----|----|----|----|----|----|-----|-----|-----|-----|-----|------------------------|----------------|--------------|-----|
|      |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |     |     |     |     |     |                        |                | Hanger       | Fan |
| 12   | 63 | 37 | 42 | 43 | 44 | 45 | 46 | 47 | 26 | 40 | 68  | 48 | 28 | 59 | 60 | 12 | 24 | 88  | 80  | 108 | 86  | 87  | 65                     | 3              | 1            | 1   |
| 13   | 69 | 41 | 46 | 47 | 48 | 49 | 50 | 51 | 28 | 44 | 74  | 53 | 30 | 65 | 67 | 13 | 28 | 97  | 87  | 118 | 95  | 96  | 72                     | 3              | 1            | 1   |
| 14   | 75 | 45 | 50 | 51 | 52 | 53 | 54 | 55 | 31 | 48 | 81  | 57 | 33 | 70 | 72 | 13 | 32 | 106 | 95  | 129 | 103 | 103 | 78                     | 4              | 1            | 1   |
| 15   | 82 | 48 | 53 | 54 | 55 | 56 | 57 | 58 | 33 | 51 | 88  | 62 | 36 | 73 | 75 | 14 | 36 | 114 | 102 | 139 | 109 | 109 | 85                     | 4              | 1            | 1   |
| 16   | 88 | 52 | 58 | 59 | 60 | 61 | 62 | 63 | 36 | 55 | 95  | 67 | 39 | 79 | 81 | 14 | 42 | 123 | 111 | 150 | 117 | 119 | 91                     | 5              | 1            | 1   |
| 17   | 94 | 56 | 62 | 63 | 64 | 65 | 66 | 67 | 38 | 57 | 101 | 72 | 41 | 82 | 84 | 14 | 48 | 132 | 118 | 160 | 122 | 123 | 98                     | 5              | 1            | 1   |

Single Inlet

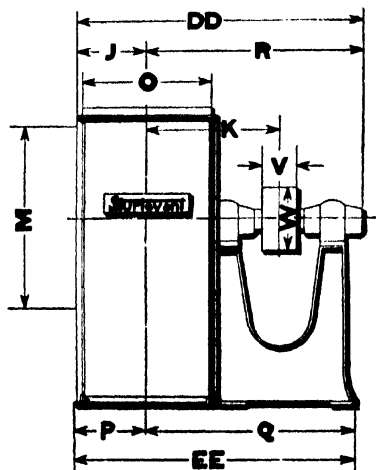
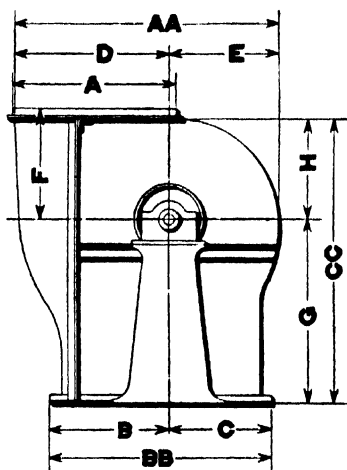
## Multivane Fan—Design 3

Single Width

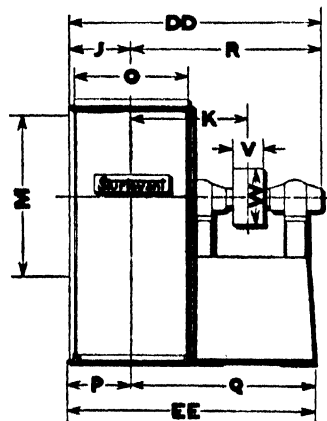
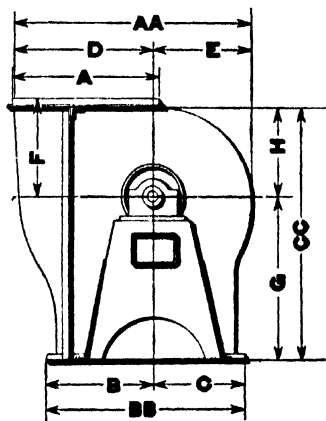
Full Housing

Up Blast Discharge

Overhung Wheel



| Size | A  | B   | C   | D  | E  | F   | G  | H  | J  | K  | M  | O  | P  | Q  | R  | V  | W  | AA | BB | CC | DD | EE | Extreme Wheel Diameter | Shaft Diameter | Anchor Bolts Hanger | Fan |
|------|----|-----|-----|----|----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|------------------------|----------------|---------------------|-----|
| 2    | 13 | 104 | 84  | 12 | 8  | 81  | 15 | 7  | 5  | 11 | 13 | 10 | 6  | 18 | 19 | 3  | 6  | 21 | 21 | 22 | 25 | 25 | 13                     | 1              |                     |     |
| 3    | 16 | 13  | 104 | 15 | 10 | 108 | 18 | 9  | 7  | 14 | 17 | 12 | 8  | 22 | 23 | 4  | 7  | 26 | 23 | 28 | 30 | 30 | 16                     | 1              |                     |     |
| 4    | 19 | 15  | 12  | 18 | 13 | 12  | 22 | 11 | 8  | 15 | 20 | 14 | 9  | 25 | 26 | 5  | 8  | 31 | 27 | 33 | 34 | 34 | 19                     | 1              |                     |     |
| 5    | 22 | 17  | 14  | 21 | 15 | 14  | 25 | 13 | 9  | 17 | 24 | 17 | 10 | 27 | 28 | 5  | 10 | 36 | 31 | 38 | 38 | 38 | 23                     | 1              |                     |     |
| 6    | 25 | 20  | 15  | 24 | 17 | 17  | 30 | 15 | 11 | 20 | 27 | 19 | 12 | 33 | 33 | 6  | 12 | 42 | 35 | 45 | 45 | 45 | 26                     | 1              |                     |     |
| 6A   | 28 | 22  | 17  | 27 | 19 | 19  | 32 | 17 | 12 | 22 | 30 | 22 | 13 | 35 | 35 | 6  | 13 | 47 | 39 | 49 | 47 | 49 | 29                     | 1              |                     |     |
| 7    | 31 | 24  | 18  | 30 | 21 | 20  | 35 | 18 | 14 | 24 | 34 | 24 | 14 | 39 | 38 | 7  | 14 | 52 | 43 | 54 | 52 | 53 | 32                     | 1              |                     |     |
| 8    | 38 | 29  | 21  | 36 | 26 | 21  | 41 | 22 | 16 | 28 | 40 | 29 | 16 | 44 | 44 | 9  | 16 | 62 | 50 | 64 | 60 | 61 | 39                     | 2              |                     |     |
| 9    | 44 | 34  | 25  | 43 | 30 | 28  | 48 | 26 | 18 | 32 | 47 | 34 | 20 | 50 | 50 | 10 | 18 | 73 | 60 | 74 | 69 | 71 | 45                     | 2              |                     |     |
| 10   | 50 | 39  | 28  | 49 | 34 | 32  | 55 | 30 | 21 | 36 | 54 | 38 | 22 | 55 | 55 | 10 | 20 | 83 | 67 | 85 | 76 | 78 | 52                     | 2              |                     |     |
| 11   | 56 | 43  | 31  | 55 | 39 | 36  | 61 | 33 | 23 | 40 | 61 | 43 | 25 | 61 | 61 | 12 | 22 | 94 | 75 | 95 | 84 | 86 | 58                     | 2              |                     |     |



| Size | A  | B  | C  | D  | E  | F  | G  | H  | J  | K  | M   | O  | P  | Q  | R  | V  | W  | AA  | BB  | CC  | DD  | EE  | Extreme Wheel Diameter | Shaft Diameter | Anchor Bolts Hanger | Fan |
|------|----|----|----|----|----|----|----|----|----|----|-----|----|----|----|----|----|----|-----|-----|-----|-----|-----|------------------------|----------------|---------------------|-----|
| 12   | 63 | 49 | 36 | 61 | 43 | 40 | 54 | 37 | 26 | 40 | 68  | 48 | 28 | 59 | 60 | 12 | 24 | 104 | 85  | 91  | 86  | 87  | 65                     | 3              | 1                   |     |
| 13   | 69 | 53 | 39 | 67 | 47 | 43 | 59 | 41 | 28 | 44 | 74  | 53 | 30 | 65 | 67 | 13 | 28 | 115 | 93  | 100 | 95  | 96  | 72                     | 3              | 1                   |     |
| 14   | 75 | 58 | 50 | 73 | 51 | 47 | 64 | 45 | 31 | 48 | 81  | 57 | 33 | 70 | 72 | 14 | 32 | 125 | 108 | 109 | 103 | 103 | 78                     | 4              | 1                   |     |
| 15   | 82 | 62 | 53 | 79 | 56 | 52 | 70 | 48 | 33 | 51 | 88  | 62 | 36 | 73 | 75 | 14 | 36 | 136 | 115 | 118 | 109 | 109 | 85                     | 4              | 1                   |     |
| 16   | 88 | 67 | 58 | 85 | 60 | 56 | 75 | 52 | 36 | 55 | 95  | 67 | 39 | 79 | 81 | 14 | 42 | 146 | 125 | 127 | 117 | 119 | 91                     | 5              | 1                   |     |
| 17   | 94 | 71 | 62 | 92 | 64 | 59 | 80 | 56 | 38 | 57 | 101 | 72 | 41 | 82 | 84 | 14 | 48 | 156 | 133 | 136 | 122 | 123 | 98                     | 5              | 1                   | 1   |

Single Inlet

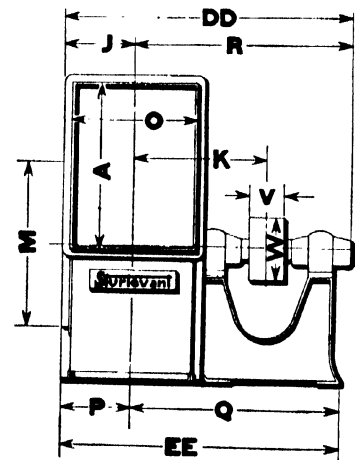
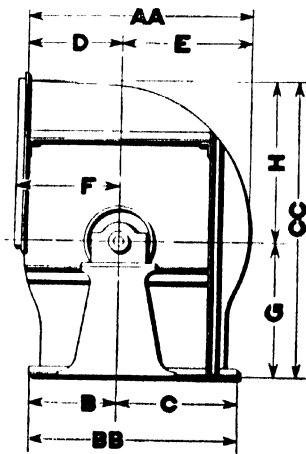
## Multivane Fan—Design 3

Single Width

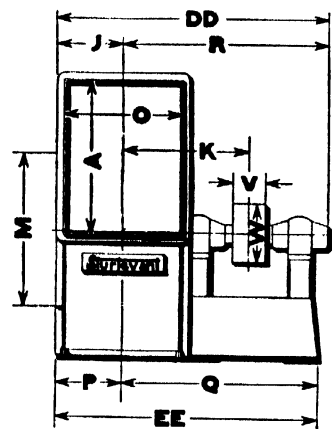
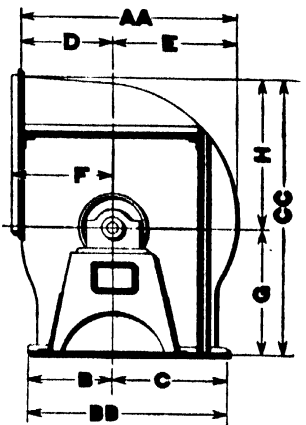
Full Housing

Top Horizontal Discharge

Overhung Wheel



| Size | A  | B  | C  | D  | E  | F  | G  | H  | J  | K  | M  | O  | P  | Q  | R  | V  | W  | AA | BB | CC  | DD | EE | Extreme Wheel Diameter | Shaft Diameter | Anchor Bolts |     |
|------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|----|----|------------------------|----------------|--------------|-----|
|      |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |                        |                | Hanger       | Fan |
| 2    | 13 | 7  | 9  | 7  | 10 | 8  | 11 | 12 | 5  | 11 | 13 | 10 | 6  | 18 | 19 | 3  | 6  | 17 | 16 | 23  | 25 | 25 | 13                     | 1              | 1            | 1   |
| 3    | 16 | 8  | 11 | 9  | 12 | 10 | 14 | 15 | 7  | 14 | 17 | 12 | 8  | 22 | 23 | 4  | 7  | 22 | 20 | 29  | 30 | 30 | 16                     | 1              | 1            | 1   |
| 4    | 19 | 10 | 13 | 11 | 15 | 12 | 16 | 18 | 8  | 15 | 20 | 14 | 9  | 25 | 26 | 5  | 8  | 26 | 23 | 35  | 34 | 34 | 19                     | 1              | 1            | 1   |
| 5    | 22 | 11 | 15 | 13 | 17 | 14 | 18 | 21 | 9  | 17 | 24 | 17 | 10 | 27 | 28 | 5  | 10 | 31 | 27 | 40  | 38 | 38 | 23                     | 1              | 1            | 1   |
| 6    | 25 | 13 | 17 | 15 | 20 | 17 | 20 | 24 | 11 | 20 | 27 | 19 | 12 | 33 | 33 | 6  | 12 | 35 | 30 | 45  | 45 | 45 | 26                     | 1              | 1            | 1   |
| 6    | 28 | 14 | 19 | 17 | 22 | 19 | 23 | 27 | 12 | 22 | 30 | 22 | 13 | 35 | 35 | 6  | 13 | 39 | 34 | 51  | 47 | 49 | 29                     | 1              | 1            | 1   |
| 7    | 31 | 15 | 21 | 18 | 25 | 20 | 25 | 30 | 14 | 24 | 34 | 24 | 14 | 39 | 38 | 7  | 14 | 41 | 37 | 56  | 52 | 53 | 32                     | 1              | 1            | 1   |
| 8    | 38 | 18 | 26 | 22 | 30 | 24 | 30 | 36 | 16 | 28 | 40 | 29 | 16 | 44 | 44 | 9  | 16 | 53 | 44 | 67  | 60 | 61 | 39                     | 2              | 1            | 1   |
| 9    | 44 | 22 | 30 | 26 | 35 | 28 | 35 | 43 | 18 | 32 | 47 | 34 | 20 | 50 | 50 | 10 | 18 | 62 | 53 | 78  | 69 | 71 | 45                     | 2              | 1            | 1   |
| 10   | 50 | 25 | 34 | 30 | 40 | 32 | 40 | 49 | 21 | 36 | 54 | 38 | 22 | 55 | 55 | 10 | 20 | 70 | 59 | 89  | 76 | 78 | 52                     | 2              | 1            | 1   |
| 11   | 56 | 28 | 38 | 33 | 45 | 36 | 45 | 55 | 23 | 40 | 61 | 43 | 25 | 61 | 61 | 12 | 22 | 79 | 66 | 100 | 84 | 86 | 58                     | 2              | 1            | 1   |



| Size | A  | B  | C  | D  | E  | F  | G  | H  | J  | K  | M   | O  | P  | Q  | R  | V  | W  | AA  | BB  | CC  | DD  | EE  | Extreme Wheel Diameter | Shaft Diameter | Anchor Bolts |     |
|------|----|----|----|----|----|----|----|----|----|----|-----|----|----|----|----|----|----|-----|-----|-----|-----|-----|------------------------|----------------|--------------|-----|
|      |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |     |     |     |     |     |                        |                | Hanger       | Fan |
| 12   | 63 | 32 | 42 | 37 | 50 | 40 | 46 | 61 | 26 | 40 | 68  | 48 | 28 | 59 | 60 | 12 | 24 | 88  | 75  | 108 | 86  | 87  | 65                     | 3              | 1            | 1   |
| 13   | 69 | 35 | 46 | 41 | 55 | 43 | 51 | 67 | 28 | 44 | 74  | 53 | 30 | 65 | 67 | 13 | 28 | 97  | 81  | 118 | 95  | 96  | 72                     | 3              | 1            | 1   |
| 14   | 75 | 40 | 50 | 45 | 60 | 47 | 55 | 73 | 31 | 48 | 81  | 57 | 33 | 70 | 72 | 13 | 32 | 106 | 100 | 129 | 103 | 103 | 78                     | 4              | 1            | 1   |
| 15   | 82 | 43 | 53 | 48 | 66 | 52 | 60 | 79 | 33 | 51 | 88  | 62 | 36 | 73 | 75 | 14 | 36 | 114 | 107 | 140 | 109 | 109 | 85                     | 4              | 1            | 1   |
| 16   | 88 | 48 | 58 | 52 | 71 | 56 | 64 | 85 | 36 | 55 | 95  | 67 | 39 | 79 | 81 | 14 | 42 | 123 | 117 | 150 | 117 | 119 | 91                     | 5              | 1            | 1   |
| 17   | 94 | 52 | 62 | 56 | 76 | 59 | 69 | 92 | 38 | 57 | 101 | 72 | 41 | 82 | 84 | 14 | 48 | 132 | 124 | 161 | 122 | 123 | 98                     | 5              | 1            | 1   |

Single Inlet

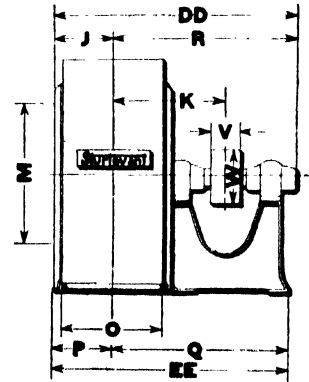
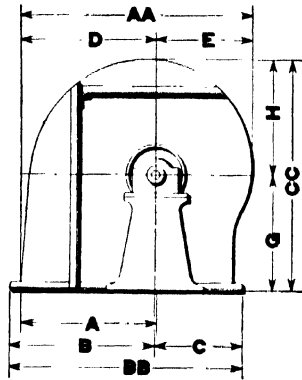
## Multivane Fan—Design 3

Single Width

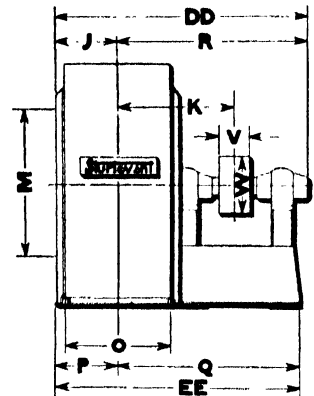
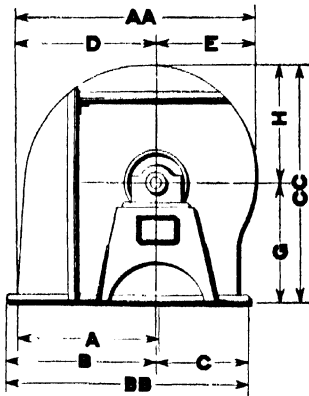
Full Housing

Down Blast Discharge

Overhung Wheel



| Size  | A  | B  | C  | D  | E  | G  | H  | J  | K  | M  | O  | P  | Q  | R  | V  | W  | AA | BB | CC | DD | EE | Extreme Wheel Diameter | Shaft Diameter | Anchor Bolts Hanger | Fan |
|-------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|------------------------|----------------|---------------------|-----|
| 2     | 12 | 14 | 8  | 12 | 8  | 11 | 10 | 5  | 11 | 13 | 9  | 6  | 18 | 19 | 3  | 6  | 21 | 22 | 21 | 25 | 25 | 13                     | 1              | 1                   | 1   |
| 3     | 15 | 17 | 10 | 15 | 10 | 14 | 12 | 7  | 14 | 17 | 11 | 8  | 22 | 23 | 4  | 7  | 26 | 28 | 26 | 30 | 30 | 16                     | 1              | 1                   | 1   |
| 4     | 18 | 20 | 12 | 18 | 13 | 16 | 15 | 8  | 15 | 20 | 14 | 9  | 25 | 26 | 5  | 8  | 31 | 32 | 31 | 34 | 34 | 19                     | 1              | 1                   | 1   |
| 5     | 21 | 24 | 14 | 21 | 15 | 18 | 17 | 9  | 17 | 24 | 16 | 10 | 27 | 28 | 5  | 10 | 37 | 38 | 36 | 38 | 38 | 23                     | 1              | 1                   | 1   |
| 6     | 25 | 27 | 15 | 24 | 17 | 20 | 20 | 11 | 20 | 27 | 19 | 12 | 33 | 33 | 6  | 12 | 42 | 42 | 41 | 45 | 45 | 26                     | 1              | 1                   | 1   |
| 6 1/2 | 28 | 30 | 17 | 28 | 19 | 23 | 22 | 12 | 22 | 30 | 21 | 13 | 35 | 35 | 6  | 13 | 47 | 47 | 46 | 47 | 49 | 29                     | 1              | 1                   | 1   |
| 7     | 31 | 33 | 18 | 31 | 21 | 25 | 25 | 14 | 24 | 34 | 23 | 14 | 39 | 38 | 7  | 14 | 52 | 52 | 51 | 52 | 53 | 32                     | 1              | 1                   | 1   |
| 8     | 37 | 39 | 21 | 37 | 26 | 30 | 30 | 16 | 28 | 40 | 28 | 16 | 44 | 44 | 9  | 16 | 63 | 61 | 61 | 60 | 61 | 39                     | 2              | 1                   | 1   |
| 9     | 43 | 47 | 25 | 43 | 30 | 35 | 35 | 18 | 32 | 47 | 33 | 20 | 50 | 50 | 10 | 18 | 73 | 72 | 71 | 69 | 71 | 45                     | 2              | 1                   | 1   |
| 10    | 50 | 53 | 28 | 49 | 34 | 40 | 40 | 21 | 36 | 54 | 38 | 22 | 55 | 55 | 10 | 20 | 84 | 81 | 81 | 76 | 78 | 52                     | 2              | 1                   | 1   |
| 11    | 56 | 59 | 31 | 55 | 39 | 45 | 45 | 23 | 40 | 61 | 42 | 25 | 61 | 61 | 12 | 22 | 94 | 90 | 91 | 84 | 86 | 58                     | 2              | 1                   | 1   |



| Size | A  | B  | C  | D  | E  | G  | H  | J  | K  | M   | O  | P  | Q  | R  | V  | W  | AA  | BB  | CC  | DD  | EE  | Extreme Wheel Diameter | Shaft Diameter | Anchor Bolts Hanger | Fan |
|------|----|----|----|----|----|----|----|----|----|-----|----|----|----|----|----|----|-----|-----|-----|-----|-----|------------------------|----------------|---------------------|-----|
| 12   | 62 | 65 | 36 | 61 | 43 | 41 | 50 | 26 | 40 | 68  | 47 | 28 | 59 | 60 | 12 | 24 | 104 | 101 | 91  | 86  | 87  | 65                     | 3              | 1                   | 1   |
| 13   | 68 | 72 | 39 | 67 | 47 | 45 | 55 | 28 | 44 | 74  | 52 | 30 | 65 | 67 | 13 | 28 | 115 | 111 | 100 | 95  | 96  | 72                     | 3              | 1                   | 1   |
| 14   | 75 | 78 | 50 | 73 | 51 | 49 | 60 | 31 | 48 | 81  | 57 | 33 | 70 | 72 | 13 | 32 | 125 | 128 | 109 | 103 | 103 | 78                     | 4              | 1                   | 1   |
| 15   | 81 | 84 | 53 | 79 | 56 | 53 | 66 | 33 | 51 | 88  | 61 | 36 | 73 | 75 | 14 | 36 | 136 | 138 | 119 | 109 | 109 | 85                     | 4              | 1                   | 1   |
| 16   | 87 | 91 | 58 | 85 | 60 | 57 | 71 | 36 | 55 | 95  | 66 | 39 | 79 | 81 | 14 | 42 | 146 | 150 | 128 | 117 | 119 | 91                     | 5              | 1                   | 1   |
| 17   | 93 | 98 | 62 | 92 | 64 | 61 | 76 | 38 | 57 | 101 | 71 | 41 | 82 | 84 | 14 | 48 | 156 | 160 | 137 | 122 | 123 | 98                     | 5              | 1                   | 1   |

Single Inlet

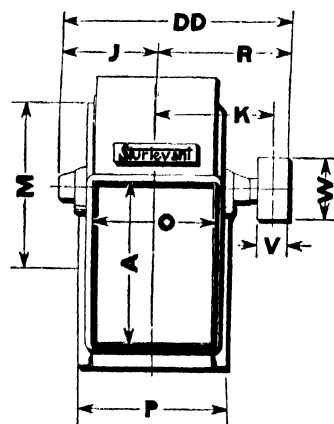
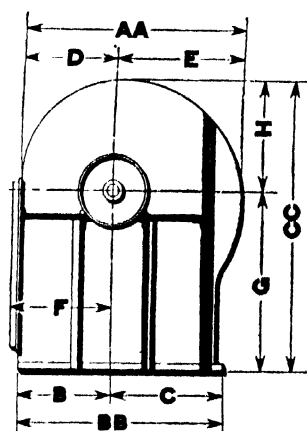
## Multivane Fan—Design 3

Single Width

Full Housing

Bottom Horizontal Discharge

Overhung Pulley



| Size            | A                | B                | C                | D                | E                | F                | G                | H                | J                | K                | M                 | O                | P                | R                | V                | W  | AA                | BB                | CC                | DD                | Extreme Wheel Diameter | Shaft Diameter  | Anchor Bolts |
|-----------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|------------------|------------------|------------------|------------------|----|-------------------|-------------------|-------------------|-------------------|------------------------|-----------------|--------------|
| 2               | 13               | 7 $\frac{1}{2}$  | 9 $\frac{1}{2}$  | 7 $\frac{1}{2}$  | 10 $\frac{1}{2}$ | 8 $\frac{1}{2}$  | 14 $\frac{1}{2}$ | 8 $\frac{1}{2}$  | 11               | 11 $\frac{1}{2}$ | 13 $\frac{1}{2}$  | 10 $\frac{1}{2}$ | 12 $\frac{1}{2}$ | 13               | 3 $\frac{1}{2}$  | 6  | 17 $\frac{1}{2}$  | 17 $\frac{1}{2}$  | 23 $\frac{1}{2}$  | 24                | 13 $\frac{1}{2}$       | 1 $\frac{1}{2}$ | 1            |
| 3               | 16 $\frac{1}{2}$ | 9 $\frac{1}{2}$  | 11 $\frac{1}{2}$ | 9 $\frac{1}{2}$  | 12 $\frac{1}{2}$ | 10 $\frac{1}{2}$ | 17 $\frac{1}{2}$ | 10 $\frac{1}{2}$ | 12 $\frac{1}{2}$ | 12 $\frac{1}{2}$ | 17 $\frac{1}{2}$  | 12 $\frac{1}{2}$ | 16 $\frac{1}{2}$ | 14 $\frac{1}{2}$ | 4                | 7  | 22 $\frac{1}{2}$  | 21                | 28 $\frac{1}{2}$  | 26 $\frac{1}{2}$  | 16 $\frac{1}{2}$       | 1 $\frac{1}{2}$ | 1            |
| 4               | 19 $\frac{1}{2}$ | 11 $\frac{1}{2}$ | 13               | 11 $\frac{1}{2}$ | 15 $\frac{1}{2}$ | 12 $\frac{1}{2}$ | 21               | 13               | 13 $\frac{1}{2}$ | 14 $\frac{1}{2}$ | 20 $\frac{1}{2}$  | 14 $\frac{1}{2}$ | 18 $\frac{1}{2}$ | 17 $\frac{1}{2}$ | 5                | 8  | 26 $\frac{1}{2}$  | 21 $\frac{1}{2}$  | 34                | 30 $\frac{1}{2}$  | 19 $\frac{1}{2}$       | 1 $\frac{1}{2}$ | 1            |
| 5               | 22 $\frac{1}{2}$ | 13 $\frac{1}{2}$ | 15 $\frac{1}{2}$ | 13 $\frac{1}{2}$ | 17 $\frac{1}{2}$ | 14 $\frac{1}{2}$ | 24 $\frac{1}{2}$ | 15 $\frac{1}{2}$ | 15 $\frac{1}{2}$ | 16 $\frac{1}{2}$ | 21                | 17 $\frac{1}{2}$ | 21 $\frac{1}{2}$ | 18 $\frac{1}{2}$ | 5                | 10 | 31 $\frac{1}{2}$  | 28 $\frac{1}{2}$  | 39 $\frac{1}{2}$  | 31 $\frac{1}{2}$  | 23                     | 1 $\frac{1}{2}$ | 1            |
| 6               | 25 $\frac{1}{2}$ | 15 $\frac{1}{2}$ | 17 $\frac{1}{2}$ | 15 $\frac{1}{2}$ | 20 $\frac{1}{2}$ | 17 $\frac{1}{2}$ | 27 $\frac{1}{2}$ | 17 $\frac{1}{2}$ | 17 $\frac{1}{2}$ | 18 $\frac{1}{2}$ | 27 $\frac{1}{2}$  | 19 $\frac{1}{2}$ | 24 $\frac{1}{2}$ | 21 $\frac{1}{2}$ | 6                | 12 | 35 $\frac{1}{2}$  | 32 $\frac{1}{2}$  | 44 $\frac{1}{2}$  | 38 $\frac{1}{2}$  | 26 $\frac{1}{2}$       | 1 $\frac{1}{2}$ | 2            |
| 6 $\frac{1}{2}$ | 28 $\frac{1}{2}$ | 17               | 19 $\frac{1}{2}$ | 17               | 22 $\frac{1}{2}$ | 19               | 30 $\frac{1}{2}$ | 19 $\frac{1}{2}$ | 19 $\frac{1}{2}$ | 20 $\frac{1}{2}$ | 30 $\frac{1}{2}$  | 22               | 26 $\frac{1}{2}$ | 23 $\frac{1}{2}$ | 6 $\frac{1}{2}$  | 13 | 39 $\frac{1}{2}$  | 36 $\frac{1}{2}$  | 49 $\frac{1}{2}$  | 42 $\frac{1}{2}$  | 29 $\frac{1}{2}$       | 1 $\frac{1}{2}$ | 2            |
| 7               | 31 $\frac{1}{2}$ | 18 $\frac{1}{2}$ | 21 $\frac{1}{2}$ | 18 $\frac{1}{2}$ | 25 $\frac{1}{2}$ | 20 $\frac{1}{2}$ | 33 $\frac{1}{2}$ | 21 $\frac{1}{2}$ | 20 $\frac{1}{2}$ | 21 $\frac{1}{2}$ | 34 $\frac{1}{2}$  | 24 $\frac{1}{2}$ | 29               | 25 $\frac{1}{2}$ | 7 $\frac{1}{2}$  | 14 | 44 $\frac{1}{2}$  | 40 $\frac{1}{2}$  | 55 $\frac{1}{2}$  | 46                | 32 $\frac{1}{2}$       | 1 $\frac{1}{2}$ | 2            |
| 8               | 38 $\frac{1}{2}$ | 22 $\frac{1}{2}$ | 26 $\frac{1}{2}$ | 22 $\frac{1}{2}$ | 30 $\frac{1}{2}$ | 24 $\frac{1}{2}$ | 39 $\frac{1}{2}$ | 26               | 23 $\frac{1}{2}$ | 25 $\frac{1}{2}$ | 40 $\frac{1}{2}$  | 29 $\frac{1}{2}$ | 33 $\frac{1}{2}$ | 30               | 9                | 16 | 53 $\frac{1}{2}$  | 48 $\frac{1}{2}$  | 65 $\frac{1}{2}$  | 53 $\frac{1}{2}$  | 39 $\frac{1}{2}$       | 2 $\frac{1}{2}$ | 3            |
| 9               | 41 $\frac{1}{2}$ | 26 $\frac{1}{2}$ | 30 $\frac{1}{2}$ | 26 $\frac{1}{2}$ | 35 $\frac{1}{2}$ | 28 $\frac{1}{2}$ | 46               | 30 $\frac{1}{2}$ | 26 $\frac{1}{2}$ | 28 $\frac{1}{2}$ | 47 $\frac{1}{2}$  | 34               | 40 $\frac{1}{2}$ | 34 $\frac{1}{2}$ | 10 $\frac{1}{2}$ | 18 | 62                | 57 $\frac{1}{2}$  | 76 $\frac{1}{2}$  | 61                | 45 $\frac{1}{2}$       | 2 $\frac{1}{2}$ | 3            |
| 10              | 50 $\frac{1}{2}$ | 30 $\frac{1}{2}$ | 34 $\frac{1}{2}$ | 30 $\frac{1}{2}$ | 40 $\frac{1}{2}$ | 32 $\frac{1}{2}$ | 52 $\frac{1}{2}$ | 34 $\frac{1}{2}$ | 30 $\frac{1}{2}$ | 32               | 54 $\frac{1}{2}$  | 38 $\frac{1}{2}$ | 45 $\frac{1}{2}$ | 37 $\frac{1}{2}$ | 10 $\frac{1}{2}$ | 20 | 70 $\frac{1}{2}$  | 64 $\frac{1}{2}$  | 86 $\frac{1}{2}$  | 67 $\frac{1}{2}$  | 52 $\frac{1}{2}$       | 2 $\frac{1}{2}$ | 4            |
| 11              | 56 $\frac{1}{2}$ | 33 $\frac{1}{2}$ | 38               | 33 $\frac{1}{2}$ | 45 $\frac{1}{2}$ | 36 $\frac{1}{2}$ | 58 $\frac{1}{2}$ | 39               | 33 $\frac{1}{2}$ | 35 $\frac{1}{2}$ | 61 $\frac{1}{2}$  | 43 $\frac{1}{2}$ | 50               | 41 $\frac{1}{2}$ | 12               | 22 | 79 $\frac{1}{2}$  | 71 $\frac{1}{2}$  | 97 $\frac{1}{2}$  | 71 $\frac{1}{2}$  | 58 $\frac{1}{2}$       | 2 $\frac{1}{2}$ | 4            |
| 12              | 63 $\frac{1}{2}$ | 37 $\frac{1}{2}$ | 42 $\frac{1}{2}$ | 37 $\frac{1}{2}$ | 50 $\frac{1}{2}$ | 40 $\frac{1}{2}$ | 64 $\frac{1}{2}$ | 43 $\frac{1}{2}$ | 37               | 39               | 68                | 48 $\frac{1}{2}$ | 56 $\frac{1}{2}$ | 45               | 12               | 21 | 88 $\frac{1}{2}$  | 80 $\frac{1}{2}$  | 108               | 82                | 65 $\frac{1}{2}$       | 3 $\frac{1}{2}$ | 5            |
| 13              | 69 $\frac{1}{2}$ | 41 $\frac{1}{2}$ | 46 $\frac{1}{2}$ | 41 $\frac{1}{2}$ | 55 $\frac{1}{2}$ | 43 $\frac{1}{2}$ | 71               | 47 $\frac{1}{2}$ | 41 $\frac{1}{2}$ | 43 $\frac{1}{2}$ | 74 $\frac{1}{2}$  | 53               | 61 $\frac{1}{2}$ | 50 $\frac{1}{2}$ | 13 $\frac{1}{2}$ | 28 | 97 $\frac{1}{2}$  | 87 $\frac{1}{2}$  | 118 $\frac{1}{2}$ | 91 $\frac{1}{2}$  | 72                     | 3 $\frac{1}{2}$ | 5            |
| 14              | 75 $\frac{1}{2}$ | 45 $\frac{1}{2}$ | 50 $\frac{1}{2}$ | 45 $\frac{1}{2}$ | 60 $\frac{1}{2}$ | 47 $\frac{1}{2}$ | 77 $\frac{1}{2}$ | 51 $\frac{1}{2}$ | 45 $\frac{1}{2}$ | 46 $\frac{1}{2}$ | 81 $\frac{1}{2}$  | 57 $\frac{1}{2}$ | 67 $\frac{1}{2}$ | 53 $\frac{1}{2}$ | 13 $\frac{1}{2}$ | 32 | 106               | 95 $\frac{1}{2}$  | 129 $\frac{1}{2}$ | 98 $\frac{1}{2}$  | 78 $\frac{1}{2}$       | 4 $\frac{1}{2}$ | 5            |
| 15              | 82               | 48 $\frac{1}{2}$ | 53 $\frac{1}{2}$ | 48 $\frac{1}{2}$ | 66               | 52 $\frac{1}{2}$ | 83 $\frac{1}{2}$ | 56 $\frac{1}{2}$ | 47 $\frac{1}{2}$ | 49 $\frac{1}{2}$ | 88 $\frac{1}{2}$  | 62 $\frac{1}{2}$ | 72               | 56 $\frac{1}{2}$ | 14 $\frac{1}{2}$ | 36 | 114 $\frac{1}{2}$ | 102 $\frac{1}{2}$ | 139 $\frac{1}{2}$ | 104 $\frac{1}{2}$ | 85 $\frac{1}{2}$       | 4 $\frac{1}{2}$ | 5            |
| 16              | 88 $\frac{1}{2}$ | 52 $\frac{1}{2}$ | 58 $\frac{1}{2}$ | 52 $\frac{1}{2}$ | 71               | 56 $\frac{1}{2}$ | 89 $\frac{1}{2}$ | 60 $\frac{1}{2}$ | 51 $\frac{1}{2}$ | 53 $\frac{1}{2}$ | 95                | 67 $\frac{1}{2}$ | 78 $\frac{1}{2}$ | 60 $\frac{1}{2}$ | 14 $\frac{1}{2}$ | 42 | 123 $\frac{1}{2}$ | 111 $\frac{1}{2}$ | 150 $\frac{1}{2}$ | 112 $\frac{1}{2}$ | 91 $\frac{1}{2}$       | 5               | 5            |
| 17              | 91 $\frac{1}{2}$ | 56 $\frac{1}{2}$ | 62 $\frac{1}{2}$ | 56 $\frac{1}{2}$ | 76 $\frac{1}{2}$ | 59 $\frac{1}{2}$ | 96               | 64 $\frac{1}{2}$ | 53 $\frac{1}{2}$ | 55 $\frac{1}{2}$ | 101 $\frac{1}{2}$ | 72 $\frac{1}{2}$ | 83 $\frac{1}{2}$ | 63 $\frac{1}{2}$ | 14 $\frac{1}{2}$ | 48 | 132 $\frac{1}{2}$ | 118 $\frac{1}{2}$ | 160 $\frac{1}{2}$ | 116 $\frac{1}{2}$ | 98 $\frac{1}{2}$       | 5               | 1            |

Single Inlet

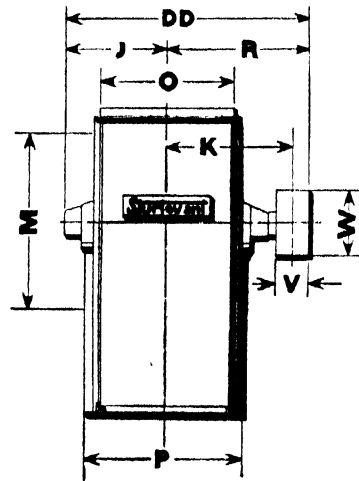
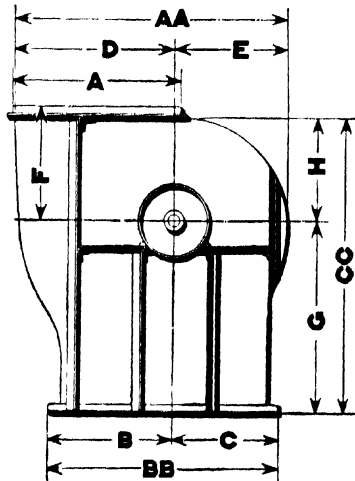
## Multivane Fan—Design 3

Single Width

Full Housing

Up Blast Discharge

Overhung Pulley



| Size            | A                | B                | C                | D                | E                | F                | G                | H                | J                | K                | M                 | O                | P                | R                | V                | W  | AA                | BB                | CC                | DD                | Extreme Wheel Diameter | Shaft Diameter  | Anchor Bolts  |
|-----------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|------------------|------------------|------------------|------------------|----|-------------------|-------------------|-------------------|-------------------|------------------------|-----------------|---------------|
| 2               | 13               | 10 $\frac{1}{2}$ | 8 $\frac{1}{2}$  | 12 $\frac{1}{2}$ | 8 $\frac{1}{2}$  | 8 $\frac{1}{2}$  | 12 $\frac{1}{2}$ | 7 $\frac{1}{2}$  | 11               | 11 $\frac{1}{2}$ | 13 $\frac{1}{2}$  | 10 $\frac{1}{2}$ | 12 $\frac{1}{2}$ | 13               | 3 $\frac{1}{2}$  | 6  | 21 $\frac{1}{2}$  | 19                | 19 $\frac{1}{2}$  | 24                | 13 $\frac{1}{2}$       | 1 $\frac{1}{2}$ | $\frac{1}{2}$ |
| 3               | 16 $\frac{1}{2}$ | 13               | 10 $\frac{1}{2}$ | 15 $\frac{1}{2}$ | 10 $\frac{1}{2}$ | 10 $\frac{1}{2}$ | 14 $\frac{1}{2}$ | 9 $\frac{1}{2}$  | 12 $\frac{1}{2}$ | 12 $\frac{1}{2}$ | 17 $\frac{1}{2}$  | 12 $\frac{1}{2}$ | 16 $\frac{1}{2}$ | 14 $\frac{1}{2}$ | 4                | 7  | 26 $\frac{1}{2}$  | 23 $\frac{1}{2}$  | 21 $\frac{1}{2}$  | 26 $\frac{1}{2}$  | 16 $\frac{1}{2}$       | 1 $\frac{1}{2}$ | $\frac{1}{2}$ |
| 4               | 19 $\frac{1}{2}$ | 15               | 12               | 18 $\frac{1}{2}$ | 13               | 12 $\frac{1}{2}$ | 17 $\frac{1}{2}$ | 11 $\frac{1}{2}$ | 13 $\frac{1}{2}$ | 14 $\frac{1}{2}$ | 20 $\frac{1}{2}$  | 14 $\frac{1}{2}$ | 18 $\frac{1}{2}$ | 17 $\frac{1}{2}$ | 5                | 8  | 31 $\frac{1}{2}$  | 27                | 28 $\frac{1}{2}$  | 30 $\frac{1}{2}$  | 19 $\frac{1}{2}$       | 1 $\frac{1}{2}$ | $\frac{1}{2}$ |
| 5               | 22 $\frac{1}{2}$ | 17 $\frac{1}{2}$ | 14               | 21 $\frac{1}{2}$ | 15 $\frac{1}{2}$ | 14 $\frac{1}{2}$ | 20 $\frac{1}{2}$ | 13 $\frac{1}{2}$ | 15 $\frac{1}{2}$ | 16 $\frac{1}{2}$ | 24                | 17 $\frac{1}{2}$ | 21 $\frac{1}{2}$ | 18 $\frac{1}{2}$ | 5                | 10 | 36 $\frac{1}{2}$  | 31 $\frac{1}{2}$  | 33 $\frac{1}{2}$  | 34 $\frac{1}{2}$  | 23                     | 1 $\frac{1}{2}$ | $\frac{1}{2}$ |
| 6               | 25 $\frac{1}{2}$ | 20               | 15 $\frac{1}{2}$ | 24 $\frac{1}{2}$ | 17 $\frac{1}{2}$ | 17 $\frac{1}{2}$ | 22 $\frac{1}{2}$ | 15 $\frac{1}{2}$ | 17 $\frac{1}{2}$ | 18 $\frac{1}{2}$ | 27 $\frac{1}{2}$  | 19 $\frac{1}{2}$ | 24 $\frac{1}{2}$ | 21 $\frac{1}{2}$ | 6                | 12 | 42                | 35 $\frac{1}{2}$  | 37 $\frac{1}{2}$  | 38 $\frac{1}{2}$  | 26 $\frac{1}{2}$       | 1 $\frac{1}{2}$ | $\frac{1}{2}$ |
| 6 $\frac{1}{2}$ | 28 $\frac{1}{2}$ | 22 $\frac{1}{2}$ | 17               | 27 $\frac{1}{2}$ | 19 $\frac{1}{2}$ | 19               | 25 $\frac{1}{2}$ | 17               | 19 $\frac{1}{2}$ | 20 $\frac{1}{2}$ | 30 $\frac{1}{2}$  | 22               | 26 $\frac{1}{2}$ | 23 $\frac{1}{2}$ | 6 $\frac{1}{2}$  | 13 | 47 $\frac{1}{2}$  | 39 $\frac{1}{2}$  | 42 $\frac{1}{2}$  | 42 $\frac{1}{2}$  | 29 $\frac{1}{2}$       | 1 $\frac{1}{2}$ | $\frac{1}{2}$ |
| 7               | 31 $\frac{1}{2}$ | 24 $\frac{1}{2}$ | 18 $\frac{1}{2}$ | 30 $\frac{1}{2}$ | 21 $\frac{1}{2}$ | 20 $\frac{1}{2}$ | 28               | 18 $\frac{1}{2}$ | 20 $\frac{1}{2}$ | 21 $\frac{1}{2}$ | 34 $\frac{1}{2}$  | 24 $\frac{1}{2}$ | 29               | 25 $\frac{1}{2}$ | 7 $\frac{1}{2}$  | 14 | 52 $\frac{1}{2}$  | 43                | 46 $\frac{1}{2}$  | 46                | 32 $\frac{1}{2}$       | 1 $\frac{1}{2}$ | $\frac{1}{2}$ |
| 8               | 38 $\frac{1}{2}$ | 29               | 21 $\frac{1}{2}$ | 36 $\frac{1}{2}$ | 26               | 24 $\frac{1}{2}$ | 33 $\frac{1}{2}$ | 22 $\frac{1}{2}$ | 23 $\frac{1}{2}$ | 25 $\frac{1}{2}$ | 40 $\frac{1}{2}$  | 29 $\frac{1}{2}$ | 33 $\frac{1}{2}$ | 30               | 9                | 16 | 62 $\frac{1}{2}$  | 50 $\frac{1}{2}$  | 55 $\frac{1}{2}$  | 53 $\frac{1}{2}$  | 39 $\frac{1}{2}$       | 2 $\frac{1}{2}$ | $\frac{1}{2}$ |
| 9               | 41 $\frac{1}{2}$ | 31 $\frac{1}{2}$ | 25 $\frac{1}{2}$ | 43               | 30 $\frac{1}{2}$ | 28 $\frac{1}{2}$ | 38 $\frac{1}{2}$ | 26 $\frac{1}{2}$ | 26 $\frac{1}{2}$ | 28 $\frac{1}{2}$ | 47 $\frac{1}{2}$  | 34               | 40 $\frac{1}{2}$ | 34 $\frac{1}{2}$ | 10 $\frac{1}{2}$ | 18 | 73 $\frac{1}{2}$  | 60                | 64 $\frac{1}{2}$  | 61                | 45 $\frac{1}{2}$       | 2 $\frac{1}{2}$ | $\frac{1}{2}$ |
| 10              | 50 $\frac{1}{2}$ | 39               | 28 $\frac{1}{2}$ | 49 $\frac{1}{2}$ | 34 $\frac{1}{2}$ | 32 $\frac{1}{2}$ | 43 $\frac{1}{2}$ | 30 $\frac{1}{2}$ | 30 $\frac{1}{2}$ | 32               | 54 $\frac{1}{2}$  | 38 $\frac{1}{2}$ | 45 $\frac{1}{2}$ | 37 $\frac{1}{2}$ | 10 $\frac{1}{2}$ | 20 | 83 $\frac{1}{2}$  | 67 $\frac{1}{2}$  | 73 $\frac{1}{2}$  | 67 $\frac{1}{2}$  | 52 $\frac{1}{2}$       | 2 $\frac{1}{2}$ | $\frac{1}{2}$ |
| 11              | 56 $\frac{1}{2}$ | 43 $\frac{1}{2}$ | 31 $\frac{1}{2}$ | 55 $\frac{1}{2}$ | 39               | 36 $\frac{1}{2}$ | 49               | 33 $\frac{1}{2}$ | 33 $\frac{1}{2}$ | 35 $\frac{1}{2}$ | 61 $\frac{1}{2}$  | 43 $\frac{1}{2}$ | 50               | 41 $\frac{1}{2}$ | 12               | 22 | 94 $\frac{1}{2}$  | 75                | 82 $\frac{1}{2}$  | 74 $\frac{1}{2}$  | 58 $\frac{1}{2}$       | 2 $\frac{1}{2}$ | $\frac{1}{2}$ |
| 12              | 63 $\frac{1}{2}$ | 49               | 36               | 61 $\frac{1}{2}$ | 43 $\frac{1}{2}$ | 40 $\frac{1}{2}$ | 54 $\frac{1}{2}$ | 37 $\frac{1}{2}$ | 37               | 39               | 68                | 48 $\frac{1}{2}$ | 56 $\frac{1}{2}$ | 45               | 12               | 24 | 104 $\frac{1}{2}$ | 85                | 91 $\frac{1}{2}$  | 82                | 65 $\frac{1}{2}$       | 3 $\frac{1}{2}$ | $\frac{1}{2}$ |
| 13              | 69 $\frac{1}{2}$ | 53 $\frac{1}{2}$ | 39 $\frac{1}{2}$ | 67 $\frac{1}{2}$ | 47 $\frac{1}{2}$ | 43 $\frac{1}{2}$ | 59 $\frac{1}{2}$ | 41 $\frac{1}{2}$ | 41 $\frac{1}{2}$ | 43 $\frac{1}{2}$ | 74 $\frac{1}{2}$  | 53               | 61 $\frac{1}{2}$ | 50 $\frac{1}{2}$ | 13 $\frac{1}{2}$ | 28 | 115 $\frac{1}{2}$ | 93                | 100 $\frac{1}{2}$ | 91 $\frac{1}{2}$  | 72                     | 3 $\frac{1}{2}$ | $\frac{1}{2}$ |
| 14              | 75 $\frac{1}{2}$ | 58               | 50 $\frac{1}{2}$ | 73 $\frac{1}{2}$ | 51 $\frac{1}{2}$ | 47 $\frac{1}{2}$ | 64 $\frac{1}{2}$ | 45 $\frac{1}{2}$ | 45 $\frac{1}{2}$ | 46 $\frac{1}{2}$ | 81 $\frac{1}{2}$  | 57 $\frac{1}{2}$ | 67 $\frac{1}{2}$ | 53 $\frac{1}{2}$ | 13 $\frac{1}{2}$ | 32 | 125 $\frac{1}{2}$ | 108 $\frac{1}{2}$ | 109 $\frac{1}{2}$ | 98 $\frac{1}{2}$  | 78 $\frac{1}{2}$       | 4 $\frac{1}{2}$ | $\frac{1}{2}$ |
| 15              | 82               | 62               | 53 $\frac{1}{2}$ | 79 $\frac{1}{2}$ | 56 $\frac{1}{2}$ | 52 $\frac{1}{2}$ | 70               | 48 $\frac{1}{2}$ | 47 $\frac{1}{2}$ | 49 $\frac{1}{2}$ | 88 $\frac{1}{2}$  | 62 $\frac{1}{2}$ | 72               | 56 $\frac{1}{2}$ | 14 $\frac{1}{2}$ | 36 | 136               | 115 $\frac{1}{2}$ | 118 $\frac{1}{2}$ | 104 $\frac{1}{2}$ | 85 $\frac{1}{2}$       | 4 $\frac{1}{2}$ | $\frac{1}{2}$ |
| 16              | 88 $\frac{1}{2}$ | 67               | 58 $\frac{1}{2}$ | 85 $\frac{1}{2}$ | 60 $\frac{1}{2}$ | 56 $\frac{1}{2}$ | 75 $\frac{1}{2}$ | 52 $\frac{1}{2}$ | 51 $\frac{1}{2}$ | 53 $\frac{1}{2}$ | 95                | 67 $\frac{1}{2}$ | 78 $\frac{1}{2}$ | 60 $\frac{1}{2}$ | 14 $\frac{1}{2}$ | 42 | 146 $\frac{1}{2}$ | 125 $\frac{1}{2}$ | 127 $\frac{1}{2}$ | 112 $\frac{1}{2}$ | 91 $\frac{1}{2}$       | 5               | $\frac{1}{2}$ |
| 17              | 94 $\frac{1}{2}$ | 71               | 62 $\frac{1}{2}$ | 92               | 64 $\frac{1}{2}$ | 59 $\frac{1}{2}$ | 80 $\frac{1}{2}$ | 56 $\frac{1}{2}$ | 53 $\frac{1}{2}$ | 55 $\frac{1}{2}$ | 101 $\frac{1}{2}$ | 72 $\frac{1}{2}$ | 83 $\frac{1}{2}$ | 63 $\frac{1}{2}$ | 14 $\frac{1}{2}$ | 48 | 156 $\frac{1}{2}$ | 133 $\frac{1}{2}$ | 136 $\frac{1}{2}$ | 116 $\frac{1}{2}$ | 98 $\frac{1}{2}$       | 5               | 1             |



Single Inlet

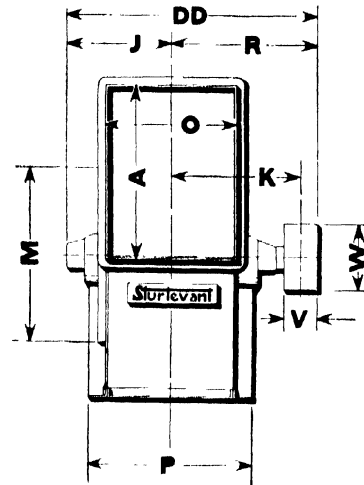
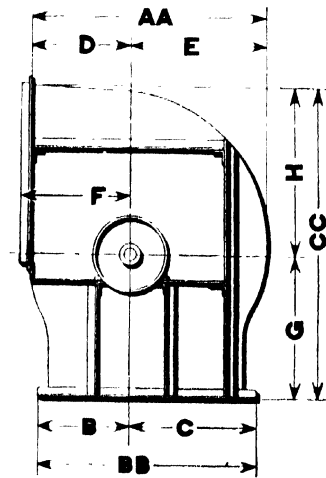
## Multivane Fan—Design 3

Single Width

Full Housing

Top Horizontal Discharge

Overhung Pulley



| Fan Size | A  | B  | C  | D  | E  | F  | G  | H  | J  | K  | M   | O  | P  | R  | V  | W  | AA  | BB  | CC  | EE  | Extreme Wheel Diameter | Shaft Diameter | Anchor Bolts |
|----------|----|----|----|----|----|----|----|----|----|----|-----|----|----|----|----|----|-----|-----|-----|-----|------------------------|----------------|--------------|
| 2        | 13 | 5  | 8  | 7  | 10 | 8  | 10 | 12 | 11 | 11 | 13  | 10 | 6  | 12 | 3  | 6  | 17  | 13  | 23  | 23  | 13                     | 1              | 1            |
| 3        | 16 | 6  | 9  | 9  | 12 | 10 | 13 | 15 | 12 | 12 | 17  | 12 | 16 | 14 | 4  | 7  | 22  | 16  | 28  | 26  | 16                     | 1              | 1            |
| 4        | 19 | 8  | 11 | 11 | 15 | 12 | 15 | 18 | 13 | 14 | 20  | 14 | 18 | 17 | 5  | 8  | 26  | 19  | 33  | 30  | 19                     | 1              | 1            |
| 5        | 22 | 9  | 13 | 13 | 17 | 14 | 17 | 21 | 15 | 16 | 24  | 17 | 21 | 18 | 5  | 10 | 31  | 22  | 39  | 34  | 23                     | 1              | 1            |
| 6        | 25 | 10 | 15 | 15 | 20 | 17 | 19 | 24 | 17 | 18 | 27  | 19 | 24 | 21 | 6  | 12 | 35  | 25  | 44  | 38  | 26                     | 1              | 1            |
| 6 1/2    | 28 | 11 | 17 | 17 | 22 | 19 | 22 | 27 | 19 | 20 | 30  | 22 | 26 | 23 | 6  | 13 | 39  | 28  | 49  | 42  | 29                     | 1              | 1            |
| 7        | 31 | 13 | 19 | 18 | 25 | 20 | 24 | 30 | 20 | 21 | 34  | 24 | 29 | 25 | 7  | 14 | 44  | 32  | 55  | 46  | 32                     | 1              | 1            |
| 8        | 38 | 18 | 26 | 22 | 30 | 24 | 28 | 36 | 23 | 25 | 40  | 29 | 33 | 30 | 9  | 16 | 53  | 44  | 65  | 53  | 39                     | 2              | 1            |
| 9        | 44 | 22 | 30 | 26 | 35 | 28 | 33 | 43 | 26 | 28 | 47  | 34 | 40 | 34 | 10 | 18 | 62  | 53  | 76  | 61  | 45                     | 2              | 1            |
| 10       | 50 | 25 | 34 | 30 | 40 | 32 | 37 | 49 | 30 | 32 | 54  | 38 | 45 | 37 | 10 | 20 | 70  | 59  | 86  | 67  | 52                     | 2              | 1            |
| 11       | 56 | 28 | 38 | 33 | 45 | 36 | 42 | 55 | 33 | 35 | 61  | 43 | 50 | 41 | 12 | 22 | 79  | 66  | 92  | 74  | 58                     | 2              | 1            |
| 12       | 63 | 32 | 42 | 37 | 50 | 40 | 46 | 61 | 37 | 39 | 68  | 48 | 56 | 45 | 12 | 24 | 88  | 75  | 108 | 82  | 65                     | 3              | 1            |
| 13       | 69 | 35 | 46 | 41 | 55 | 43 | 51 | 67 | 41 | 43 | 74  | 53 | 61 | 50 | 13 | 28 | 97  | 81  | 118 | 91  | 72                     | 3              | 1            |
| 14       | 75 | 50 | 50 | 45 | 60 | 47 | 55 | 73 | 45 | 46 | 81  | 57 | 67 | 53 | 13 | 32 | 106 | 100 | 129 | 98  | 78                     | 4              | 1            |
| 15       | 82 | 53 | 53 | 48 | 66 | 52 | 60 | 79 | 47 | 49 | 88  | 62 | 72 | 56 | 14 | 36 | 114 | 107 | 140 | 104 | 85                     | 4              | 1            |
| 16       | 88 | 58 | 58 | 52 | 71 | 56 | 64 | 85 | 51 | 53 | 95  | 67 | 78 | 60 | 14 | 42 | 123 | 117 | 150 | 112 | 91                     | 5              | 1            |
| 17       | 94 | 62 | 62 | 56 | 76 | 59 | 69 | 92 | 53 | 55 | 101 | 72 | 83 | 63 | 14 | 48 | 132 | 124 | 161 | 116 | 98                     | 5              | 1            |

Single Inlet

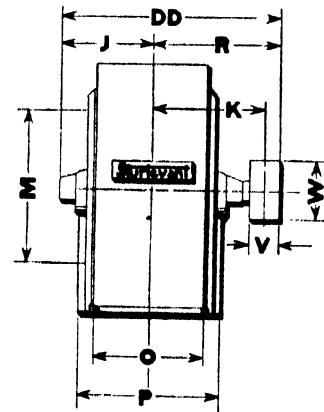
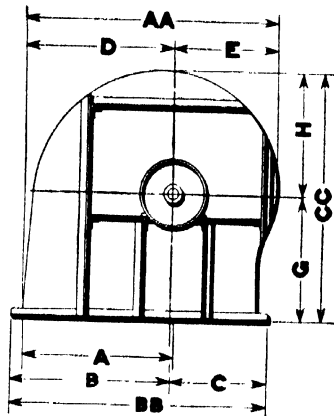
## Multivane Fan—Design 3

Single Width

Full Housing

Down Blast Discharge

Overhung Pulley



| Size            | A                | B                | C                | D                | E                | G  | H                | J                | K                | M                 | O                | P                | R                | V                | W  | AA                | BB                | CC                | DD                | Extreme Wheel Diameter | Shaft Diameter  | Anchor Bolts |
|-----------------|------------------|------------------|------------------|------------------|------------------|----|------------------|------------------|------------------|-------------------|------------------|------------------|------------------|------------------|----|-------------------|-------------------|-------------------|-------------------|------------------------|-----------------|--------------|
| 2               | 12 $\frac{1}{2}$ | 13 $\frac{1}{2}$ | 8 $\frac{1}{2}$  | 12 $\frac{1}{2}$ | 8 $\frac{1}{2}$  | 9  | 10 $\frac{1}{2}$ | 11               | 11 $\frac{1}{2}$ | 13 $\frac{1}{2}$  | 9 $\frac{1}{2}$  | 12 $\frac{1}{2}$ | 13               | 3 $\frac{1}{2}$  | 6  | 21 $\frac{1}{2}$  | 22 $\frac{1}{2}$  | 19 $\frac{1}{2}$  | 21                | 13 $\frac{1}{2}$       | 1 $\frac{1}{2}$ | 1            |
| 3               | 15 $\frac{1}{2}$ | 17 $\frac{1}{2}$ | 10 $\frac{1}{2}$ | 15 $\frac{1}{2}$ | 10 $\frac{1}{2}$ | 11 | 12 $\frac{1}{2}$ | 12 $\frac{1}{2}$ | 12 $\frac{1}{2}$ | 17 $\frac{1}{2}$  | 11 $\frac{1}{2}$ | 16 $\frac{1}{2}$ | 14 $\frac{1}{2}$ | 4                | 7  | 26 $\frac{1}{2}$  | 27 $\frac{1}{2}$  | 23 $\frac{1}{2}$  | 26 $\frac{1}{2}$  | 16 $\frac{1}{2}$       | 1 $\frac{1}{2}$ | 1            |
| 4               | 18 $\frac{1}{2}$ | 20 $\frac{1}{2}$ | 12 $\frac{1}{2}$ | 18 $\frac{1}{2}$ | 13               | 13 | 15 $\frac{1}{2}$ | 13 $\frac{1}{2}$ | 11 $\frac{1}{2}$ | 20 $\frac{1}{2}$  | 14 $\frac{1}{2}$ | 18 $\frac{1}{2}$ | 17 $\frac{1}{2}$ | 5                | 8  | 31 $\frac{1}{2}$  | 32 $\frac{1}{2}$  | 28 $\frac{1}{2}$  | 30 $\frac{1}{2}$  | 19 $\frac{1}{2}$       | 1 $\frac{1}{2}$ | 1            |
| 5               | 21 $\frac{1}{2}$ | 24 $\frac{1}{2}$ | 14 $\frac{1}{2}$ | 21 $\frac{1}{2}$ | 15 $\frac{1}{2}$ | 15 | 17 $\frac{1}{2}$ | 15 $\frac{1}{2}$ | 16 $\frac{1}{2}$ | 24 $\frac{1}{2}$  | 16 $\frac{1}{2}$ | 21 $\frac{1}{2}$ | 18 $\frac{1}{2}$ | 5                | 10 | 36 $\frac{1}{2}$  | 38                | 32 $\frac{1}{2}$  | 34 $\frac{1}{2}$  | 23                     | 1 $\frac{1}{2}$ | 1            |
| 6               | 25               | 27 $\frac{1}{2}$ | 15 $\frac{1}{2}$ | 21 $\frac{1}{2}$ | 17 $\frac{1}{2}$ | 17 | 20 $\frac{1}{2}$ | 17 $\frac{1}{2}$ | 18 $\frac{1}{2}$ | 27 $\frac{1}{2}$  | 19               | 24 $\frac{1}{2}$ | 21 $\frac{1}{2}$ | 6                | 12 | 42                | 42 $\frac{1}{2}$  | 37 $\frac{1}{2}$  | 38 $\frac{1}{2}$  | 26 $\frac{1}{2}$       | 1 $\frac{1}{2}$ | 1            |
| 6 $\frac{1}{2}$ | 28 $\frac{1}{2}$ | 30 $\frac{1}{2}$ | 17 $\frac{1}{2}$ | 27 $\frac{1}{2}$ | 19 $\frac{1}{2}$ | 19 | 22 $\frac{1}{2}$ | 19 $\frac{1}{2}$ | 20 $\frac{1}{2}$ | 30 $\frac{1}{2}$  | 21 $\frac{1}{2}$ | 26 $\frac{1}{2}$ | 23 $\frac{1}{2}$ | 6 $\frac{1}{2}$  | 13 | 47 $\frac{1}{2}$  | 47 $\frac{1}{2}$  | 41 $\frac{1}{2}$  | 42 $\frac{1}{2}$  | 29 $\frac{1}{2}$       | 1 $\frac{1}{2}$ | 1            |
| 7               | 31 $\frac{1}{2}$ | 33 $\frac{1}{2}$ | 18 $\frac{1}{2}$ | 30 $\frac{1}{2}$ | 21 $\frac{1}{2}$ | 21 | 25 $\frac{1}{2}$ | 20 $\frac{1}{2}$ | 21 $\frac{1}{2}$ | 34 $\frac{1}{2}$  | 23 $\frac{1}{2}$ | 29               | 25 $\frac{1}{2}$ | 7 $\frac{1}{2}$  | 14 | 52 $\frac{1}{2}$  | 51 $\frac{1}{2}$  | 46 $\frac{1}{2}$  | 46                | 32 $\frac{1}{2}$       | 1 $\frac{1}{2}$ | 1            |
| 8               | 37 $\frac{1}{2}$ | 39 $\frac{1}{2}$ | 21 $\frac{1}{2}$ | 36 $\frac{1}{2}$ | 26               | 25 | 30 $\frac{1}{2}$ | 23 $\frac{1}{2}$ | 25 $\frac{1}{2}$ | 40 $\frac{1}{2}$  | 28 $\frac{1}{2}$ | 33 $\frac{1}{2}$ | 30               | 9                | 16 | 62 $\frac{1}{2}$  | 60 $\frac{1}{2}$  | 55 $\frac{1}{2}$  | 53 $\frac{1}{2}$  | 39 $\frac{1}{2}$       | 2 $\frac{1}{2}$ | 1            |
| 9               | 43 $\frac{1}{2}$ | 46 $\frac{1}{2}$ | 25 $\frac{1}{2}$ | 43               | 30 $\frac{1}{2}$ | 29 | 35 $\frac{1}{2}$ | 26 $\frac{1}{2}$ | 28 $\frac{1}{2}$ | 47 $\frac{1}{2}$  | 33 $\frac{1}{2}$ | 40 $\frac{1}{2}$ | 34 $\frac{1}{2}$ | 10 $\frac{1}{2}$ | 18 | 73 $\frac{1}{2}$  | 72                | 64 $\frac{1}{2}$  | 61                | 45 $\frac{1}{2}$       | 2 $\frac{1}{2}$ | 1            |
| 10              | 50               | 52 $\frac{1}{2}$ | 28 $\frac{1}{2}$ | 49 $\frac{1}{2}$ | 34 $\frac{1}{2}$ | 33 | 40 $\frac{1}{2}$ | 30 $\frac{1}{2}$ | 32               | 54 $\frac{1}{2}$  | 38               | 45 $\frac{1}{2}$ | 37 $\frac{1}{2}$ | 10 $\frac{1}{2}$ | 20 | 83 $\frac{1}{2}$  | 81 $\frac{1}{2}$  | 73 $\frac{1}{2}$  | 67 $\frac{1}{2}$  | 52 $\frac{1}{2}$       | 2 $\frac{1}{2}$ | 1            |
| 11              | 56 $\frac{1}{2}$ | 58 $\frac{1}{2}$ | 31 $\frac{1}{2}$ | 55 $\frac{1}{2}$ | 39               | 37 | 45 $\frac{1}{2}$ | 33 $\frac{1}{2}$ | 35 $\frac{1}{2}$ | 61 $\frac{1}{2}$  | 42 $\frac{1}{2}$ | 50               | 41 $\frac{1}{2}$ | 12               | 22 | 94 $\frac{1}{2}$  | 90 $\frac{1}{2}$  | 82 $\frac{1}{2}$  | 74 $\frac{1}{2}$  | 58 $\frac{1}{2}$       | 2 $\frac{1}{2}$ | 1            |
| 12              | 62 $\frac{1}{2}$ | 65 $\frac{1}{2}$ | 36               | 61 $\frac{1}{2}$ | 43 $\frac{1}{2}$ | 41 | 50 $\frac{1}{2}$ | 37               | 39               | 68                | 47 $\frac{1}{2}$ | 56 $\frac{1}{2}$ | 45               | 12               | 24 | 104 $\frac{1}{2}$ | 101 $\frac{1}{2}$ | 91 $\frac{1}{2}$  | 82                | 65 $\frac{1}{2}$       | 3 $\frac{1}{2}$ | 1            |
| 13              | 68 $\frac{1}{2}$ | 72               | 39 $\frac{1}{2}$ | 67 $\frac{1}{2}$ | 47 $\frac{1}{2}$ | 45 | 55 $\frac{1}{2}$ | 41 $\frac{1}{2}$ | 43 $\frac{1}{2}$ | 74 $\frac{1}{2}$  | 52 $\frac{1}{2}$ | 61 $\frac{1}{2}$ | 50 $\frac{1}{2}$ | 13 $\frac{1}{2}$ | 28 | 115 $\frac{1}{2}$ | 111 $\frac{1}{2}$ | 100 $\frac{1}{2}$ | 91 $\frac{1}{2}$  | 72                     | 3 $\frac{1}{2}$ | 1            |
| 14              | 75               | 78 $\frac{1}{2}$ | 50 $\frac{1}{2}$ | 73 $\frac{1}{2}$ | 51 $\frac{1}{2}$ | 49 | 60 $\frac{1}{2}$ | 45 $\frac{1}{2}$ | 46 $\frac{1}{2}$ | 81 $\frac{1}{2}$  | 57               | 67 $\frac{1}{2}$ | 53 $\frac{1}{2}$ | 13 $\frac{1}{2}$ | 32 | 125 $\frac{1}{2}$ | 128 $\frac{1}{2}$ | 109 $\frac{1}{2}$ | 98 $\frac{1}{2}$  | 78 $\frac{1}{2}$       | 4 $\frac{1}{2}$ | 1            |
| 15              | 81 $\frac{1}{2}$ | 84 $\frac{1}{2}$ | 53 $\frac{1}{2}$ | 79 $\frac{1}{2}$ | 56 $\frac{1}{2}$ | 53 | 66               | 47 $\frac{1}{2}$ | 49 $\frac{1}{2}$ | 88 $\frac{1}{2}$  | 61 $\frac{1}{2}$ | 72               | 56 $\frac{1}{2}$ | 14 $\frac{1}{2}$ | 36 | 136               | 138 $\frac{1}{2}$ | 119               | 104 $\frac{1}{2}$ | 85 $\frac{1}{2}$       | 4 $\frac{1}{2}$ | 1            |
| 16              | 87 $\frac{1}{2}$ | 91 $\frac{1}{2}$ | 58 $\frac{1}{2}$ | 85 $\frac{1}{2}$ | 60 $\frac{1}{2}$ | 57 | 71               | 51 $\frac{1}{2}$ | 53 $\frac{1}{2}$ | 95                | 66 $\frac{1}{2}$ | 78 $\frac{1}{2}$ | 60 $\frac{1}{2}$ | 14 $\frac{1}{2}$ | 42 | 146 $\frac{1}{2}$ | 150 $\frac{1}{2}$ | 128               | 112 $\frac{1}{2}$ | 91 $\frac{1}{2}$       | 5               | 1            |
| 17              | 93 $\frac{1}{2}$ | 98               | 62 $\frac{1}{2}$ | 92               | 64 $\frac{1}{2}$ | 61 | 76 $\frac{1}{2}$ | 53 $\frac{1}{2}$ | 55 $\frac{1}{2}$ | 101 $\frac{1}{2}$ | 71 $\frac{1}{2}$ | 83 $\frac{1}{2}$ | 63 $\frac{1}{2}$ | 14 $\frac{1}{2}$ | 48 | 156 $\frac{1}{2}$ | 160 $\frac{1}{2}$ | 137 $\frac{1}{2}$ | 116 $\frac{1}{2}$ | 98 $\frac{1}{2}$       | 5               | 1            |

Double Inlet

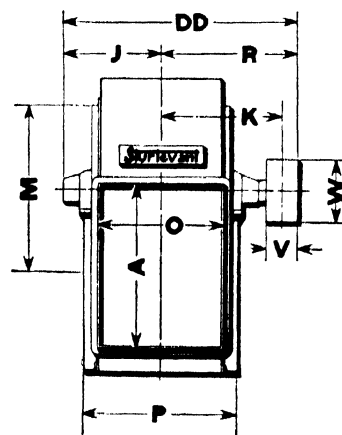
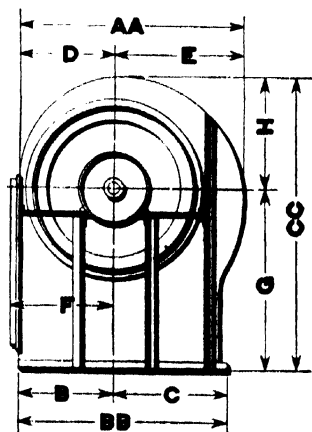
## Multivane Fan—Design 3

Single Width

Full Housing

Bottom Horizontal Discharge

Overhung Pulley



| Size            | A                | B                | C                | D                | E                | F                | G                | H                | J                | K                | M                 | O                | P                | R                | V                | W  | AA                | BB                | CC                | DD                | Extreme Wheel Diameter | Shaft Diameter  | Anchor Bolts  |
|-----------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|------------------|------------------|------------------|------------------|----|-------------------|-------------------|-------------------|-------------------|------------------------|-----------------|---------------|
| 2               | 13               | 7 $\frac{1}{2}$  | 9 $\frac{1}{2}$  | 7 $\frac{1}{2}$  | 10 $\frac{1}{2}$ | 8 $\frac{1}{2}$  | 11 $\frac{1}{2}$ | 8 $\frac{1}{2}$  | 11               | 11 $\frac{1}{2}$ | 13 $\frac{1}{2}$  | 10 $\frac{1}{2}$ | 12 $\frac{1}{2}$ | 13               | 3 $\frac{1}{2}$  | 6  | 17 $\frac{1}{2}$  | 17 $\frac{1}{2}$  | 23 $\frac{1}{2}$  | 21                | 13 $\frac{1}{2}$       | 1 $\frac{1}{2}$ | $\frac{1}{2}$ |
| 3               | 16 $\frac{1}{2}$ | 9 $\frac{1}{2}$  | 11 $\frac{1}{2}$ | 9 $\frac{1}{2}$  | 12 $\frac{1}{2}$ | 10 $\frac{1}{2}$ | 17 $\frac{1}{2}$ | 10 $\frac{1}{2}$ | 12 $\frac{1}{2}$ | 12 $\frac{1}{2}$ | 17 $\frac{1}{2}$  | 12 $\frac{1}{2}$ | 16 $\frac{1}{2}$ | 14 $\frac{1}{2}$ | 4                | 7  | 22 $\frac{1}{2}$  | 21                | 28 $\frac{1}{2}$  | 26 $\frac{1}{2}$  | 16 $\frac{1}{2}$       | 1 $\frac{1}{2}$ | $\frac{1}{2}$ |
| 4               | 19 $\frac{1}{2}$ | 11 $\frac{1}{2}$ | 13               | 11 $\frac{1}{2}$ | 15 $\frac{1}{2}$ | 12 $\frac{1}{2}$ | 21               | 13               | 13 $\frac{1}{2}$ | 14 $\frac{1}{2}$ | 20 $\frac{1}{2}$  | 14 $\frac{1}{2}$ | 18 $\frac{1}{2}$ | 17 $\frac{1}{2}$ | 5                | 8  | 26 $\frac{1}{2}$  | 24 $\frac{1}{2}$  | 34                | 30 $\frac{1}{2}$  | 19 $\frac{1}{2}$       | 1 $\frac{1}{2}$ | $\frac{1}{2}$ |
| 5               | 22 $\frac{1}{2}$ | 13 $\frac{1}{2}$ | 15 $\frac{1}{2}$ | 13 $\frac{1}{2}$ | 17 $\frac{1}{2}$ | 14 $\frac{1}{2}$ | 24 $\frac{1}{2}$ | 15 $\frac{1}{2}$ | 15 $\frac{1}{2}$ | 16 $\frac{1}{2}$ | 24                | 17 $\frac{1}{2}$ | 21 $\frac{1}{2}$ | 18 $\frac{1}{2}$ | 5                | 10 | 31 $\frac{1}{2}$  | 28 $\frac{1}{2}$  | 39 $\frac{1}{2}$  | 34 $\frac{1}{2}$  | 23                     | 1 $\frac{1}{2}$ | $\frac{1}{2}$ |
| 6               | 25 $\frac{1}{2}$ | 15 $\frac{1}{2}$ | 17 $\frac{1}{2}$ | 15 $\frac{1}{2}$ | 20 $\frac{1}{2}$ | 17 $\frac{1}{2}$ | 27 $\frac{1}{2}$ | 17 $\frac{1}{2}$ | 17 $\frac{1}{2}$ | 18 $\frac{1}{2}$ | 27 $\frac{1}{2}$  | 19 $\frac{1}{2}$ | 24 $\frac{1}{2}$ | 21 $\frac{1}{2}$ | 6                | 12 | 35 $\frac{1}{2}$  | 32 $\frac{1}{2}$  | 41 $\frac{1}{2}$  | 38 $\frac{1}{2}$  | 26 $\frac{1}{2}$       | 1 $\frac{1}{2}$ | $\frac{1}{2}$ |
| 6 $\frac{1}{2}$ | 28 $\frac{1}{2}$ | 17               | 19 $\frac{1}{2}$ | 17               | 22 $\frac{1}{2}$ | 19               | 30 $\frac{1}{2}$ | 19 $\frac{1}{2}$ | 19 $\frac{1}{2}$ | 20 $\frac{1}{2}$ | 30 $\frac{1}{2}$  | 22               | 26 $\frac{1}{2}$ | 23 $\frac{1}{2}$ | 6 $\frac{1}{2}$  | 13 | 39 $\frac{1}{2}$  | 36 $\frac{1}{2}$  | 49 $\frac{1}{2}$  | 42 $\frac{1}{2}$  | 29 $\frac{1}{2}$       | 1 $\frac{1}{2}$ | $\frac{1}{2}$ |
| 7               | 31 $\frac{1}{2}$ | 18 $\frac{1}{2}$ | 21 $\frac{1}{2}$ | 18 $\frac{1}{2}$ | 25 $\frac{1}{2}$ | 20 $\frac{1}{2}$ | 33 $\frac{1}{2}$ | 21 $\frac{1}{2}$ | 20 $\frac{1}{2}$ | 21 $\frac{1}{2}$ | 34 $\frac{1}{2}$  | 24 $\frac{1}{2}$ | 29               | 25 $\frac{1}{2}$ | 7 $\frac{1}{2}$  | 14 | 41 $\frac{1}{2}$  | 40 $\frac{1}{2}$  | 55 $\frac{1}{2}$  | 46                | 32 $\frac{1}{2}$       | 1 $\frac{1}{2}$ | $\frac{1}{2}$ |
| 8               | 38 $\frac{1}{2}$ | 22 $\frac{1}{2}$ | 26 $\frac{1}{2}$ | 22 $\frac{1}{2}$ | 30 $\frac{1}{2}$ | 24 $\frac{1}{2}$ | 39 $\frac{1}{2}$ | 26               | 23 $\frac{1}{2}$ | 25 $\frac{1}{2}$ | 40 $\frac{1}{2}$  | 29 $\frac{1}{2}$ | 33 $\frac{1}{2}$ | 30               | 9                | 16 | 53 $\frac{1}{2}$  | 48 $\frac{1}{2}$  | 65 $\frac{1}{2}$  | 53 $\frac{1}{2}$  | 39 $\frac{1}{2}$       | 2 $\frac{1}{2}$ | $\frac{1}{2}$ |
| 9               | 44 $\frac{1}{2}$ | 26 $\frac{1}{2}$ | 30 $\frac{1}{2}$ | 26 $\frac{1}{2}$ | 35 $\frac{1}{2}$ | 28 $\frac{1}{2}$ | 46               | 30 $\frac{1}{2}$ | 26 $\frac{1}{2}$ | 28 $\frac{1}{2}$ | 47 $\frac{1}{2}$  | 34               | 40 $\frac{1}{2}$ | 34 $\frac{1}{2}$ | 10 $\frac{1}{2}$ | 18 | 62                | 57 $\frac{1}{2}$  | 76 $\frac{1}{2}$  | 61                | 45 $\frac{1}{2}$       | 2 $\frac{1}{2}$ | $\frac{1}{2}$ |
| 10              | 50 $\frac{1}{2}$ | 30 $\frac{1}{2}$ | 34 $\frac{1}{2}$ | 30 $\frac{1}{2}$ | 40 $\frac{1}{2}$ | 32 $\frac{1}{2}$ | 52 $\frac{1}{2}$ | 34 $\frac{1}{2}$ | 30 $\frac{1}{2}$ | 32               | 54 $\frac{1}{2}$  | 38 $\frac{1}{2}$ | 45 $\frac{1}{2}$ | 37 $\frac{1}{2}$ | 10 $\frac{1}{2}$ | 20 | 70 $\frac{1}{2}$  | 64 $\frac{1}{2}$  | 86 $\frac{1}{2}$  | 67 $\frac{1}{2}$  | 52 $\frac{1}{2}$       | 2 $\frac{1}{2}$ | $\frac{1}{2}$ |
| 11              | 56 $\frac{1}{2}$ | 33 $\frac{1}{2}$ | 38               | 33 $\frac{1}{2}$ | 44 $\frac{1}{2}$ | 36 $\frac{1}{2}$ | 58 $\frac{1}{2}$ | 39               | 33 $\frac{1}{2}$ | 35 $\frac{1}{2}$ | 61 $\frac{1}{2}$  | 43 $\frac{1}{2}$ | 50               | 41 $\frac{1}{2}$ | 12               | 22 | 79 $\frac{1}{2}$  | 71 $\frac{1}{2}$  | 97 $\frac{1}{2}$  | 74 $\frac{1}{2}$  | 58 $\frac{1}{2}$       | 2 $\frac{1}{2}$ | $\frac{1}{2}$ |
| 12              | 63 $\frac{1}{2}$ | 37 $\frac{1}{2}$ | 42 $\frac{1}{2}$ | 37 $\frac{1}{2}$ | 50 $\frac{1}{2}$ | 40 $\frac{1}{2}$ | 64 $\frac{1}{2}$ | 43 $\frac{1}{2}$ | 37               | 39               | 68                | 48 $\frac{1}{2}$ | 56 $\frac{1}{2}$ | 45               | 12               | 24 | 88 $\frac{1}{2}$  | 80 $\frac{1}{2}$  | 108               | 82                | 65 $\frac{1}{2}$       | 3 $\frac{1}{2}$ | $\frac{1}{2}$ |
| 13              | 69 $\frac{1}{2}$ | 41 $\frac{1}{2}$ | 46 $\frac{1}{2}$ | 41 $\frac{1}{2}$ | 55 $\frac{1}{2}$ | 43 $\frac{1}{2}$ | 71               | 47 $\frac{1}{2}$ | 41 $\frac{1}{2}$ | 43 $\frac{1}{2}$ | 74 $\frac{1}{2}$  | 53               | 61 $\frac{1}{2}$ | 50 $\frac{1}{2}$ | 13 $\frac{1}{2}$ | 28 | 97 $\frac{1}{2}$  | 87 $\frac{1}{2}$  | 118 $\frac{1}{2}$ | 91 $\frac{1}{2}$  | 72                     | 3 $\frac{1}{2}$ | $\frac{1}{2}$ |
| 14              | 75 $\frac{1}{2}$ | 45 $\frac{1}{2}$ | 50 $\frac{1}{2}$ | 45 $\frac{1}{2}$ | 60 $\frac{1}{2}$ | 47 $\frac{1}{2}$ | 77 $\frac{1}{2}$ | 51 $\frac{1}{2}$ | 45 $\frac{1}{2}$ | 46 $\frac{1}{2}$ | 81 $\frac{1}{2}$  | 57 $\frac{1}{2}$ | 67 $\frac{1}{2}$ | 53 $\frac{1}{2}$ | 13 $\frac{1}{2}$ | 32 | 106               | 95 $\frac{1}{2}$  | 129 $\frac{1}{2}$ | 98 $\frac{1}{2}$  | 78 $\frac{1}{2}$       | 4 $\frac{1}{2}$ | $\frac{1}{2}$ |
| 15              | 82               | 48 $\frac{1}{2}$ | 53 $\frac{1}{2}$ | 48 $\frac{1}{2}$ | 66               | 52 $\frac{1}{2}$ | 83 $\frac{1}{2}$ | 56 $\frac{1}{2}$ | 47 $\frac{1}{2}$ | 49 $\frac{1}{2}$ | 88 $\frac{1}{2}$  | 62 $\frac{1}{2}$ | 72               | 56 $\frac{1}{2}$ | 14 $\frac{1}{2}$ | 36 | 114 $\frac{1}{2}$ | 102 $\frac{1}{2}$ | 139 $\frac{1}{2}$ | 104 $\frac{1}{2}$ | 85 $\frac{1}{2}$       | 4 $\frac{1}{2}$ | $\frac{1}{2}$ |
| 16              | 88 $\frac{1}{2}$ | 52 $\frac{1}{2}$ | 58 $\frac{1}{2}$ | 52 $\frac{1}{2}$ | 71               | 56 $\frac{1}{2}$ | 89 $\frac{1}{2}$ | 60 $\frac{1}{2}$ | 51 $\frac{1}{2}$ | 53 $\frac{1}{2}$ | 95                | 67 $\frac{1}{2}$ | 78 $\frac{1}{2}$ | 60 $\frac{1}{2}$ | 14 $\frac{1}{2}$ | 42 | 123 $\frac{1}{2}$ | 111 $\frac{1}{2}$ | 150 $\frac{1}{2}$ | 112 $\frac{1}{2}$ | 91 $\frac{1}{2}$       | 5               | $\frac{1}{2}$ |
| 17              | 91 $\frac{1}{2}$ | 56 $\frac{1}{2}$ | 62 $\frac{1}{2}$ | 56 $\frac{1}{2}$ | 76 $\frac{1}{2}$ | 59 $\frac{1}{2}$ | 96               | 64 $\frac{1}{2}$ | 53 $\frac{1}{2}$ | 55 $\frac{1}{2}$ | 101 $\frac{1}{2}$ | 72 $\frac{1}{2}$ | 83 $\frac{1}{2}$ | 63 $\frac{1}{2}$ | 14 $\frac{1}{2}$ | 48 | 132 $\frac{1}{2}$ | 118 $\frac{1}{2}$ | 160 $\frac{1}{2}$ | 116 $\frac{1}{2}$ | 98 $\frac{1}{2}$       | 5               | 1             |

Double Inlet

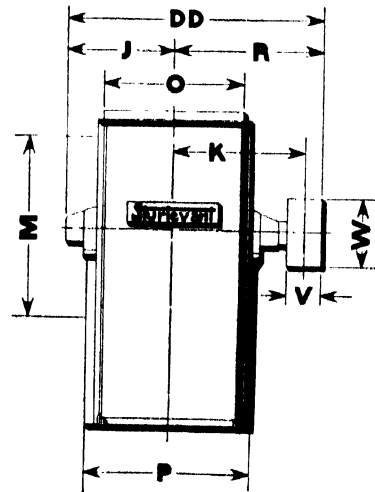
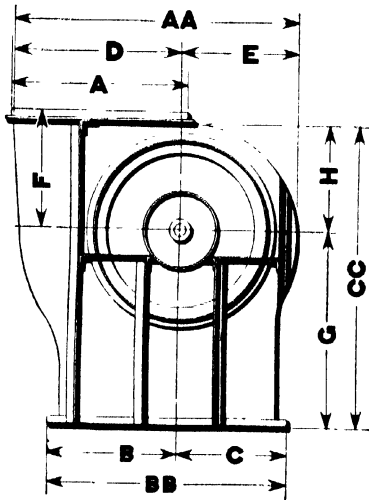
## Multivane Fan—Design 3

Single Width

Full Housing

Up Blast Discharge

Overhung Pulley



| ze              | A                | B                | C                | D                | E                | F                | G                | H                | J                | K                | M                 | O                | P                | R                | V                | W  | AA                | BB                | CC                | DD                | Extreme<br>Wheel<br>Diameter | Shaft<br>Diameter | Anchor<br>Bolts |
|-----------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|------------------|------------------|------------------|------------------|----|-------------------|-------------------|-------------------|-------------------|------------------------------|-------------------|-----------------|
| 2               | 13               | 10 $\frac{1}{2}$ | 8 $\frac{1}{2}$  | 12 $\frac{1}{2}$ | 8 $\frac{1}{2}$  | 8 $\frac{1}{2}$  | 12 $\frac{1}{2}$ | 7 $\frac{1}{2}$  | 11               | 11 $\frac{1}{2}$ | 13 $\frac{1}{2}$  | 10 $\frac{1}{2}$ | 12 $\frac{1}{2}$ | 13               | 3 $\frac{1}{2}$  | 6  | 21 $\frac{1}{2}$  | 19                | 19 $\frac{1}{2}$  | 24                | 13 $\frac{1}{2}$             | 1 $\frac{1}{2}$   | 1               |
| 3               | 16 $\frac{1}{2}$ | 13               | 10 $\frac{1}{2}$ | 15 $\frac{1}{2}$ | 10 $\frac{1}{2}$ | 10 $\frac{1}{2}$ | 14 $\frac{1}{2}$ | 9 $\frac{1}{2}$  | 12 $\frac{1}{2}$ | 12 $\frac{1}{2}$ | 17 $\frac{1}{2}$  | 12 $\frac{1}{2}$ | 16 $\frac{1}{2}$ | 14 $\frac{1}{2}$ | 4                | 7  | 26 $\frac{1}{2}$  | 23 $\frac{1}{2}$  | 24 $\frac{1}{2}$  | 26 $\frac{1}{2}$  | 16 $\frac{1}{2}$             | 1 $\frac{1}{2}$   | 1               |
| 4               | 19 $\frac{1}{2}$ | 15               | 12               | 18 $\frac{1}{2}$ | 13               | 12 $\frac{1}{2}$ | 17 $\frac{1}{2}$ | 11 $\frac{1}{2}$ | 13 $\frac{1}{2}$ | 14 $\frac{1}{2}$ | 20 $\frac{1}{2}$  | 14 $\frac{1}{2}$ | 18 $\frac{1}{2}$ | 17 $\frac{1}{2}$ | 5                | 8  | 31 $\frac{1}{2}$  | 27                | 28 $\frac{1}{2}$  | 30 $\frac{1}{2}$  | 19 $\frac{1}{2}$             | 1 $\frac{1}{2}$   | 1               |
| 5               | 22 $\frac{1}{2}$ | 17 $\frac{1}{2}$ | 14               | 21 $\frac{1}{2}$ | 15 $\frac{1}{2}$ | 14 $\frac{1}{2}$ | 20 $\frac{1}{2}$ | 13 $\frac{1}{2}$ | 15 $\frac{1}{2}$ | 16 $\frac{1}{2}$ | 24                | 17 $\frac{1}{2}$ | 21 $\frac{1}{2}$ | 18 $\frac{1}{2}$ | 5                | 10 | 36 $\frac{1}{2}$  | 31 $\frac{1}{2}$  | 33 $\frac{1}{2}$  | 34 $\frac{1}{2}$  | 23                           | 1 $\frac{1}{2}$   | 1               |
| 6               | 25 $\frac{1}{2}$ | 20               | 15 $\frac{1}{2}$ | 24 $\frac{1}{2}$ | 17 $\frac{1}{2}$ | 17 $\frac{1}{2}$ | 22 $\frac{1}{2}$ | 15 $\frac{1}{2}$ | 17 $\frac{1}{2}$ | 18 $\frac{1}{2}$ | 27 $\frac{1}{2}$  | 19 $\frac{1}{2}$ | 24 $\frac{1}{2}$ | 21 $\frac{1}{2}$ | 6                | 12 | 42                | 35 $\frac{1}{2}$  | 37 $\frac{1}{2}$  | 38 $\frac{1}{2}$  | 26 $\frac{1}{2}$             | 1 $\frac{1}{2}$   | 1               |
| 6 $\frac{1}{2}$ | 28 $\frac{1}{2}$ | 22 $\frac{1}{2}$ | 17               | 27 $\frac{1}{2}$ | 19 $\frac{1}{2}$ | 19               | 25 $\frac{1}{2}$ | 17               | 19 $\frac{1}{2}$ | 20 $\frac{1}{2}$ | 30 $\frac{1}{2}$  | 22               | 26 $\frac{1}{2}$ | 23 $\frac{1}{2}$ | 6 $\frac{1}{2}$  | 13 | 47 $\frac{1}{2}$  | 39 $\frac{1}{2}$  | 42 $\frac{1}{2}$  | 42 $\frac{1}{2}$  | 29 $\frac{1}{2}$             | 1 $\frac{1}{2}$   | 1               |
| 7               | 31 $\frac{1}{2}$ | 24 $\frac{1}{2}$ | 18 $\frac{1}{2}$ | 30 $\frac{1}{2}$ | 21 $\frac{1}{2}$ | 20 $\frac{1}{2}$ | 28               | 18 $\frac{1}{2}$ | 20 $\frac{1}{2}$ | 21 $\frac{1}{2}$ | 34 $\frac{1}{2}$  | 24 $\frac{1}{2}$ | 29               | 25 $\frac{1}{2}$ | 7 $\frac{1}{2}$  | 14 | 52 $\frac{1}{2}$  | 43                | 46 $\frac{1}{2}$  | 46                | 32 $\frac{1}{2}$             | 1 $\frac{1}{2}$   | 1               |
| 8               | 38 $\frac{1}{2}$ | 29               | 21 $\frac{1}{2}$ | 36 $\frac{1}{2}$ | 26               | 24 $\frac{1}{2}$ | 33 $\frac{1}{2}$ | 22 $\frac{1}{2}$ | 23 $\frac{1}{2}$ | 25 $\frac{1}{2}$ | 40 $\frac{1}{2}$  | 29 $\frac{1}{2}$ | 33 $\frac{1}{2}$ | 30               | 9                | 16 | 62 $\frac{1}{2}$  | 50 $\frac{1}{2}$  | 55 $\frac{1}{2}$  | 53 $\frac{1}{2}$  | 39 $\frac{1}{2}$             | 2 $\frac{1}{2}$   | 1               |
| 9               | 41 $\frac{1}{2}$ | 31 $\frac{1}{2}$ | 25 $\frac{1}{2}$ | 43               | 30 $\frac{1}{2}$ | 28 $\frac{1}{2}$ | 38 $\frac{1}{2}$ | 26 $\frac{1}{2}$ | 26 $\frac{1}{2}$ | 28 $\frac{1}{2}$ | 47 $\frac{1}{2}$  | 34               | 40 $\frac{1}{2}$ | 34 $\frac{1}{2}$ | 10 $\frac{1}{2}$ | 18 | 73 $\frac{1}{2}$  | 60                | 64 $\frac{1}{2}$  | 61                | 45 $\frac{1}{2}$             | 2 $\frac{1}{2}$   | 1               |
| 0               | 50 $\frac{1}{2}$ | 39               | 28 $\frac{1}{2}$ | 49 $\frac{1}{2}$ | 34 $\frac{1}{2}$ | 32 $\frac{1}{2}$ | 43 $\frac{1}{2}$ | 30 $\frac{1}{2}$ | 30 $\frac{1}{2}$ | 32               | 54 $\frac{1}{2}$  | 38 $\frac{1}{2}$ | 45 $\frac{1}{2}$ | 37 $\frac{1}{2}$ | 10 $\frac{1}{2}$ | 20 | 83 $\frac{1}{2}$  | 67 $\frac{1}{2}$  | 73 $\frac{1}{2}$  | 67 $\frac{1}{2}$  | 52 $\frac{1}{2}$             | 2 $\frac{1}{2}$   | 1               |
| 1               | 56 $\frac{1}{2}$ | 43 $\frac{1}{2}$ | 31 $\frac{1}{2}$ | 55 $\frac{1}{2}$ | 39               | 36 $\frac{1}{2}$ | 49               | 33 $\frac{1}{2}$ | 33 $\frac{1}{2}$ | 35 $\frac{1}{2}$ | 61 $\frac{1}{2}$  | 43 $\frac{1}{2}$ | 50               | 41 $\frac{1}{2}$ | 12               | 22 | 94 $\frac{1}{2}$  | 75                | 82 $\frac{1}{2}$  | 74 $\frac{1}{2}$  | 58 $\frac{1}{2}$             | 2 $\frac{1}{2}$   | 1               |
| 2               | 63 $\frac{1}{2}$ | 49               | 36               | 61 $\frac{1}{2}$ | 43 $\frac{1}{2}$ | 40 $\frac{1}{2}$ | 54 $\frac{1}{2}$ | 37 $\frac{1}{2}$ | 37               | 39               | 68                | 48 $\frac{1}{2}$ | 56 $\frac{1}{2}$ | 45               | 12               | 24 | 104 $\frac{1}{2}$ | 85                | 91 $\frac{1}{2}$  | 82                | 65 $\frac{1}{2}$             | 3 $\frac{1}{2}$   | 1               |
| 3               | 69 $\frac{1}{2}$ | 53 $\frac{1}{2}$ | 39 $\frac{1}{2}$ | 67 $\frac{1}{2}$ | 47 $\frac{1}{2}$ | 43 $\frac{1}{2}$ | 59 $\frac{1}{2}$ | 41 $\frac{1}{2}$ | 41 $\frac{1}{2}$ | 43 $\frac{1}{2}$ | 74 $\frac{1}{2}$  | 53               | 61 $\frac{1}{2}$ | 50 $\frac{1}{2}$ | 13 $\frac{1}{2}$ | 28 | 115 $\frac{1}{2}$ | 93                | 100 $\frac{1}{2}$ | 91 $\frac{1}{2}$  | 72                           | 3 $\frac{1}{2}$   | 1               |
| 4               | 75 $\frac{1}{2}$ | 58               | 50 $\frac{1}{2}$ | 73 $\frac{1}{2}$ | 51 $\frac{1}{2}$ | 47 $\frac{1}{2}$ | 64 $\frac{1}{2}$ | 45 $\frac{1}{2}$ | 45 $\frac{1}{2}$ | 46 $\frac{1}{2}$ | 81 $\frac{1}{2}$  | 57 $\frac{1}{2}$ | 67 $\frac{1}{2}$ | 53 $\frac{1}{2}$ | 13 $\frac{1}{2}$ | 32 | 125 $\frac{1}{2}$ | 108 $\frac{1}{2}$ | 109 $\frac{1}{2}$ | 98 $\frac{1}{2}$  | 78 $\frac{1}{2}$             | 4 $\frac{1}{2}$   | 1               |
| 5               | 82               | 62               | 53 $\frac{1}{2}$ | 79 $\frac{1}{2}$ | 56 $\frac{1}{2}$ | 52 $\frac{1}{2}$ | 70               | 48 $\frac{1}{2}$ | 47 $\frac{1}{2}$ | 49 $\frac{1}{2}$ | 88 $\frac{1}{2}$  | 62 $\frac{1}{2}$ | 72               | 56 $\frac{1}{2}$ | 14 $\frac{1}{2}$ | 36 | 136               | 115 $\frac{1}{2}$ | 118 $\frac{1}{2}$ | 104 $\frac{1}{2}$ | 85 $\frac{1}{2}$             | 4 $\frac{1}{2}$   | 1               |
| 6               | 88 $\frac{1}{2}$ | 67               | 58 $\frac{1}{2}$ | 85 $\frac{1}{2}$ | 60 $\frac{1}{2}$ | 56 $\frac{1}{2}$ | 75 $\frac{1}{2}$ | 52 $\frac{1}{2}$ | 51 $\frac{1}{2}$ | 53 $\frac{1}{2}$ | 95                | 67 $\frac{1}{2}$ | 78 $\frac{1}{2}$ | 60 $\frac{1}{2}$ | 14 $\frac{1}{2}$ | 42 | 146 $\frac{1}{2}$ | 125 $\frac{1}{2}$ | 127 $\frac{1}{2}$ | 112 $\frac{1}{2}$ | 91 $\frac{1}{2}$             | 5                 | 1               |
| 7               | 91 $\frac{1}{2}$ | 71               | 62 $\frac{1}{2}$ | 92               | 64 $\frac{1}{2}$ | 59 $\frac{1}{2}$ | 80 $\frac{1}{2}$ | 56 $\frac{1}{2}$ | 53 $\frac{1}{2}$ | 55 $\frac{1}{2}$ | 101 $\frac{1}{2}$ | 72 $\frac{1}{2}$ | 83 $\frac{1}{2}$ | 63 $\frac{1}{2}$ | 14 $\frac{1}{2}$ | 48 | 156 $\frac{1}{2}$ | 133 $\frac{1}{2}$ | 136 $\frac{1}{2}$ | 116 $\frac{1}{2}$ | 98 $\frac{1}{2}$             | 5                 | 1               |

Double Inlet

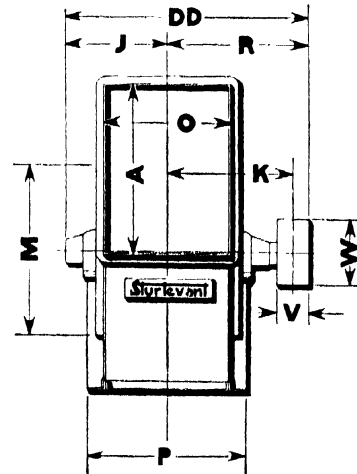
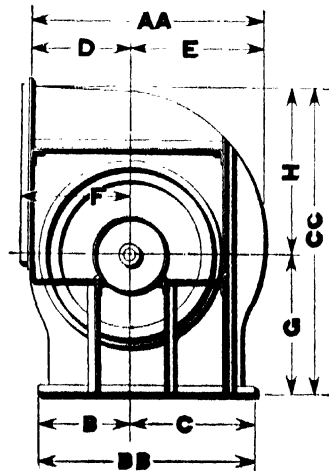
## Multivane Fan—Design 3

Single Width

Full Housing

Top Horizontal Discharge

Overhung Pulley



| Size | A  | B  | C  | D  | E  | F  | G  | H  | J  | K  | M   | O  | P  | R  | V  | W  | AA  | BB  | CC  | DD  | Extreme Wheel Diameter | Shaft Diameter | Anchor Bolts |
|------|----|----|----|----|----|----|----|----|----|----|-----|----|----|----|----|----|-----|-----|-----|-----|------------------------|----------------|--------------|
| 2    | 13 | 7  | 9  | 7  | 10 | 8  | 10 | 12 | 11 | 11 | 13  | 10 | 12 | 13 | 3  | 6  | 17  | 16  | 22  | 21  | 13                     | 1              | 1/2          |
| 3    | 16 | 8  | 11 | 9  | 12 | 10 | 13 | 15 | 12 | 12 | 17  | 12 | 16 | 14 | 4  | 7  | 22  | 20  | 27  | 26  | 16                     | 1              | 1/2          |
| 4    | 19 | 10 | 13 | 11 | 15 | 12 | 15 | 18 | 13 | 11 | 20  | 14 | 18 | 17 | 5  | 8  | 26  | 23  | 30  | 30  | 19                     | 1              | 1/2          |
| 5    | 22 | 11 | 15 | 13 | 17 | 14 | 17 | 21 | 15 | 16 | 21  | 17 | 21 | 17 | 5  | 10 | 31  | 27  | 38  | 31  | 23                     | 1              | 1/2          |
| 6    | 25 | 13 | 17 | 15 | 20 | 17 | 19 | 24 | 17 | 18 | 27  | 19 | 24 | 21 | 6  | 12 | 35  | 30  | 43  | 38  | 26                     | 1              | 1/2          |
| 6    | 28 | 14 | 19 | 17 | 22 | 19 | 22 | 27 | 19 | 20 | 30  | 22 | 26 | 23 | 6  | 13 | 39  | 33  | 48  | 42  | 29                     | 1              | 1/2          |
| 7    | 31 | 15 | 21 | 18 | 25 | 20 | 21 | 30 | 20 | 21 | 34  | 24 | 29 | 25 | 7  | 14 | 44  | 37  | 53  | 46  | 32                     | 1              | 1/2          |
| 8    | 38 | 18 | 26 | 22 | 30 | 24 | 28 | 36 | 23 | 25 | 40  | 29 | 33 | 30 | 9  | 16 | 53  | 44  | 65  | 53  | 39                     | 2              | 1/2          |
| 9    | 41 | 22 | 30 | 26 | 35 | 28 | 33 | 43 | 26 | 28 | 47  | 34 | 40 | 34 | 10 | 18 | 62  | 53  | 76  | 61  | 45                     | 2              | 1/2          |
| 10   | 50 | 25 | 31 | 30 | 40 | 32 | 37 | 49 | 30 | 32 | 54  | 38 | 45 | 37 | 10 | 20 | 70  | 59  | 86  | 67  | 52                     | 2              | 1/2          |
| 11   | 56 | 28 | 38 | 33 | 45 | 36 | 42 | 55 | 33 | 35 | 61  | 43 | 50 | 41 | 12 | 22 | 79  | 66  | 97  | 74  | 58                     | 2              | 1/2          |
| 12   | 63 | 32 | 42 | 37 | 50 | 40 | 46 | 61 | 37 | 39 | 68  | 48 | 56 | 45 | 12 | 24 | 88  | 75  | 108 | 82  | 65                     | 3              | 1/2          |
| 13   | 69 | 35 | 46 | 41 | 55 | 43 | 51 | 67 | 41 | 43 | 74  | 53 | 61 | 50 | 13 | 28 | 97  | 81  | 118 | 91  | 72                     | 3              | 1/2          |
| 14   | 75 | 50 | 50 | 45 | 60 | 47 | 55 | 73 | 45 | 46 | 81  | 57 | 67 | 53 | 13 | 32 | 106 | 100 | 129 | 98  | 78                     | 4              | 1/2          |
| 15   | 82 | 53 | 53 | 48 | 66 | 52 | 60 | 79 | 47 | 49 | 88  | 62 | 72 | 56 | 14 | 36 | 111 | 107 | 140 | 104 | 85                     | 4              | 1/2          |
| 16   | 88 | 58 | 58 | 52 | 71 | 56 | 64 | 85 | 51 | 53 | 95  | 67 | 78 | 60 | 14 | 42 | 123 | 117 | 150 | 112 | 91                     | 5              | 1/2          |
| 17   | 91 | 62 | 62 | 56 | 76 | 59 | 69 | 92 | 53 | 55 | 101 | 72 | 83 | 63 | 14 | 48 | 132 | 124 | 161 | 116 | 98                     | 5              | 1            |

Double Inlet

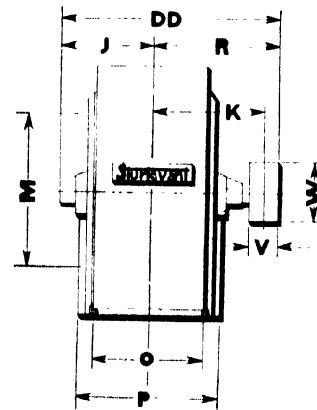
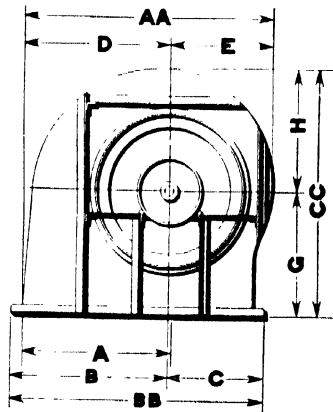
## Multivane Fan—Design 3

Single Width

Full Housing

Down Blast Discharge

Overhung Pulley



| Size            | A                | B                | C                | D                | E                | G  | H                | J                | K                | M                 | O                | P                | R                | V                | W  | AA                | BB                | CC                | DD                | Extreme Wheel Diameter | Shaft Diameter  | Anchor Bolts |
|-----------------|------------------|------------------|------------------|------------------|------------------|----|------------------|------------------|------------------|-------------------|------------------|------------------|------------------|------------------|----|-------------------|-------------------|-------------------|-------------------|------------------------|-----------------|--------------|
| 2               | 12 $\frac{1}{2}$ | 13 $\frac{1}{2}$ | 8 $\frac{1}{2}$  | 12 $\frac{1}{2}$ | 8 $\frac{1}{2}$  | 9  | 10 $\frac{1}{2}$ | 11               | 11 $\frac{1}{2}$ | 13 $\frac{1}{2}$  | 9 $\frac{1}{2}$  | 12 $\frac{1}{2}$ | 13               | 3 $\frac{1}{2}$  | 6  | 21 $\frac{1}{2}$  | 22 $\frac{1}{2}$  | 19 $\frac{1}{2}$  | 24                | 13 $\frac{1}{2}$       | 1 $\frac{1}{2}$ | 1            |
| 3               | 15 $\frac{1}{2}$ | 17 $\frac{1}{2}$ | 10 $\frac{1}{2}$ | 15 $\frac{1}{2}$ | 10 $\frac{1}{2}$ | 11 | 12 $\frac{1}{2}$ | 12 $\frac{1}{2}$ | 12 $\frac{1}{2}$ | 17 $\frac{1}{2}$  | 11 $\frac{1}{2}$ | 16 $\frac{1}{2}$ | 14 $\frac{1}{2}$ | 4                | 7  | 26 $\frac{1}{2}$  | 27 $\frac{1}{2}$  | 23 $\frac{1}{2}$  | 26 $\frac{1}{2}$  | 16 $\frac{1}{2}$       | 1 $\frac{1}{2}$ | 1            |
| 4               | 18 $\frac{1}{2}$ | 20 $\frac{1}{2}$ | 12               | 18 $\frac{1}{2}$ | 13               | 13 | 15 $\frac{1}{2}$ | 13 $\frac{1}{2}$ | 14 $\frac{1}{2}$ | 20 $\frac{1}{2}$  | 14 $\frac{1}{2}$ | 18 $\frac{1}{2}$ | 17 $\frac{1}{2}$ | 5                | 8  | 31 $\frac{1}{2}$  | 32 $\frac{1}{2}$  | 28 $\frac{1}{2}$  | 30 $\frac{1}{2}$  | 19 $\frac{1}{2}$       | 1 $\frac{1}{2}$ | 1            |
| 5               | 21 $\frac{1}{2}$ | 21               | 11               | 21 $\frac{1}{2}$ | 15 $\frac{1}{2}$ | 15 | 17 $\frac{1}{2}$ | 15 $\frac{1}{2}$ | 16 $\frac{1}{2}$ | 24                | 16 $\frac{1}{2}$ | 21 $\frac{1}{2}$ | 18 $\frac{1}{2}$ | 5                | 10 | 36 $\frac{1}{2}$  | 38                | 32 $\frac{1}{2}$  | 34 $\frac{1}{2}$  | 23                     | 1 $\frac{1}{2}$ | 1            |
| 6               | 25               | 27 $\frac{1}{2}$ | 15 $\frac{1}{2}$ | 24 $\frac{1}{2}$ | 17 $\frac{1}{2}$ | 17 | 20 $\frac{1}{2}$ | 17 $\frac{1}{2}$ | 18 $\frac{1}{2}$ | 27 $\frac{1}{2}$  | 19               | 24 $\frac{1}{2}$ | 21 $\frac{1}{2}$ | 6                | 12 | 42                | 42 $\frac{1}{2}$  | 37 $\frac{1}{2}$  | 38 $\frac{1}{2}$  | 26 $\frac{1}{2}$       | 1 $\frac{1}{2}$ | 1            |
| 6 $\frac{1}{2}$ | 28 $\frac{1}{2}$ | 30 $\frac{1}{2}$ | 17               | 27 $\frac{1}{2}$ | 19 $\frac{1}{2}$ | 19 | 22 $\frac{1}{2}$ | 19 $\frac{1}{2}$ | 20 $\frac{1}{2}$ | 30 $\frac{1}{2}$  | 21 $\frac{1}{2}$ | 26 $\frac{1}{2}$ | 23 $\frac{1}{2}$ | 6 $\frac{1}{2}$  | 13 | 47 $\frac{1}{2}$  | 47 $\frac{1}{2}$  | 41 $\frac{1}{2}$  | 42 $\frac{1}{2}$  | 29 $\frac{1}{2}$       | 1 $\frac{1}{2}$ | 1            |
| 7               | 31 $\frac{1}{2}$ | 33 $\frac{1}{2}$ | 18 $\frac{1}{2}$ | 30 $\frac{1}{2}$ | 21 $\frac{1}{2}$ | 21 | 25 $\frac{1}{2}$ | 20 $\frac{1}{2}$ | 21 $\frac{1}{2}$ | 34 $\frac{1}{2}$  | 23 $\frac{1}{2}$ | 29               | 25 $\frac{1}{2}$ | 7 $\frac{1}{2}$  | 14 | 52 $\frac{1}{2}$  | 51 $\frac{1}{2}$  | 46 $\frac{1}{2}$  | 46                | 32 $\frac{1}{2}$       | 1 $\frac{1}{2}$ | 1            |
| 8               | 37 $\frac{1}{2}$ | 39 $\frac{1}{2}$ | 21 $\frac{1}{2}$ | 36 $\frac{1}{2}$ | 26               | 25 | 30 $\frac{1}{2}$ | 23 $\frac{1}{2}$ | 25 $\frac{1}{2}$ | 40 $\frac{1}{2}$  | 28 $\frac{1}{2}$ | 33 $\frac{1}{2}$ | 30               | 9                | 16 | 62 $\frac{1}{2}$  | 60 $\frac{1}{2}$  | 55 $\frac{1}{2}$  | 53 $\frac{1}{2}$  | 39 $\frac{1}{2}$       | 2 $\frac{1}{2}$ | 1            |
| 9               | 43 $\frac{1}{2}$ | 46 $\frac{1}{2}$ | 25 $\frac{1}{2}$ | 43               | 30 $\frac{1}{2}$ | 29 | 35 $\frac{1}{2}$ | 26 $\frac{1}{2}$ | 28 $\frac{1}{2}$ | 47 $\frac{1}{2}$  | 33 $\frac{1}{2}$ | 40 $\frac{1}{2}$ | 34 $\frac{1}{2}$ | 10 $\frac{1}{2}$ | 18 | 73 $\frac{1}{2}$  | 72                | 64 $\frac{1}{2}$  | 61                | 45 $\frac{1}{2}$       | 2 $\frac{1}{2}$ | 1            |
| 10              | 50               | 52 $\frac{1}{2}$ | 28 $\frac{1}{2}$ | 49 $\frac{1}{2}$ | 34 $\frac{1}{2}$ | 33 | 40 $\frac{1}{2}$ | 30 $\frac{1}{2}$ | 32               | 54 $\frac{1}{2}$  | 38               | 45 $\frac{1}{2}$ | 37 $\frac{1}{2}$ | 10 $\frac{1}{2}$ | 20 | 83 $\frac{1}{2}$  | 81 $\frac{1}{2}$  | 73 $\frac{1}{2}$  | 67 $\frac{1}{2}$  | 52 $\frac{1}{2}$       | 2 $\frac{1}{2}$ | 1            |
| 11              | 56 $\frac{1}{2}$ | 58 $\frac{1}{2}$ | 31 $\frac{1}{2}$ | 55 $\frac{1}{2}$ | 39               | 37 | 45 $\frac{1}{2}$ | 33 $\frac{1}{2}$ | 35 $\frac{1}{2}$ | 61 $\frac{1}{2}$  | 42 $\frac{1}{2}$ | 50               | 41 $\frac{1}{2}$ | 12               | 22 | 94 $\frac{1}{2}$  | 90 $\frac{1}{2}$  | 82 $\frac{1}{2}$  | 74 $\frac{1}{2}$  | 58 $\frac{1}{2}$       | 2 $\frac{1}{2}$ | 1            |
| 12              | 62 $\frac{1}{2}$ | 65 $\frac{1}{2}$ | 36               | 61 $\frac{1}{2}$ | 43 $\frac{1}{2}$ | 41 | 50 $\frac{1}{2}$ | 37               | 39               | 68                | 47 $\frac{1}{2}$ | 56 $\frac{1}{2}$ | 45               | 12               | 24 | 104 $\frac{1}{2}$ | 101 $\frac{1}{2}$ | 91 $\frac{1}{2}$  | 82                | 65 $\frac{1}{2}$       | 3 $\frac{1}{2}$ | 1            |
| 13              | 68 $\frac{1}{2}$ | 72               | 39 $\frac{1}{2}$ | 67 $\frac{1}{2}$ | 47 $\frac{1}{2}$ | 45 | 55 $\frac{1}{2}$ | 41 $\frac{1}{2}$ | 43 $\frac{1}{2}$ | 74 $\frac{1}{2}$  | 52 $\frac{1}{2}$ | 61 $\frac{1}{2}$ | 50 $\frac{1}{2}$ | 13 $\frac{1}{2}$ | 28 | 115 $\frac{1}{2}$ | 111 $\frac{1}{2}$ | 100 $\frac{1}{2}$ | 91 $\frac{1}{2}$  | 72                     | 3 $\frac{1}{2}$ | 1            |
| 14              | 75               | 78 $\frac{1}{2}$ | 50 $\frac{1}{2}$ | 73 $\frac{1}{2}$ | 51 $\frac{1}{2}$ | 49 | 60 $\frac{1}{2}$ | 45 $\frac{1}{2}$ | 46 $\frac{1}{2}$ | 81 $\frac{1}{2}$  | 57               | 67 $\frac{1}{2}$ | 53 $\frac{1}{2}$ | 13 $\frac{1}{2}$ | 32 | 125 $\frac{1}{2}$ | 128 $\frac{1}{2}$ | 109 $\frac{1}{2}$ | 98 $\frac{1}{2}$  | 78 $\frac{1}{2}$       | 4 $\frac{1}{2}$ | 1            |
| 15              | 81 $\frac{1}{2}$ | 84 $\frac{1}{2}$ | 53 $\frac{1}{2}$ | 79 $\frac{1}{2}$ | 56 $\frac{1}{2}$ | 53 | 66               | 47 $\frac{1}{2}$ | 49 $\frac{1}{2}$ | 88 $\frac{1}{2}$  | 61 $\frac{1}{2}$ | 72               | 56 $\frac{1}{2}$ | 14 $\frac{1}{2}$ | 36 | 136               | 138 $\frac{1}{2}$ | 119               | 104 $\frac{1}{2}$ | 85 $\frac{1}{2}$       | 4 $\frac{1}{2}$ | 1            |
| 16              | 87 $\frac{1}{2}$ | 91 $\frac{1}{2}$ | 58 $\frac{1}{2}$ | 85 $\frac{1}{2}$ | 60 $\frac{1}{2}$ | 57 | 71               | 51 $\frac{1}{2}$ | 53 $\frac{1}{2}$ | 95                | 66 $\frac{1}{2}$ | 78 $\frac{1}{2}$ | 60 $\frac{1}{2}$ | 14 $\frac{1}{2}$ | 42 | 146 $\frac{1}{2}$ | 150 $\frac{1}{2}$ | 128               | 112 $\frac{1}{2}$ | 91 $\frac{1}{2}$       | 5               | 1            |
| 17              | 93 $\frac{1}{2}$ | 98               | 62 $\frac{1}{2}$ | 92               | 64 $\frac{1}{2}$ | 61 | 76 $\frac{1}{2}$ | 53 $\frac{1}{2}$ | 55 $\frac{1}{2}$ | 101 $\frac{1}{2}$ | 71 $\frac{1}{2}$ | 83 $\frac{1}{2}$ | 63 $\frac{1}{2}$ | 14 $\frac{1}{2}$ | 48 | 156 $\frac{1}{2}$ | 160 $\frac{1}{2}$ | 137 $\frac{1}{2}$ | 116 $\frac{1}{2}$ | 98 $\frac{1}{2}$       | 5               | 1            |

Single Inlet

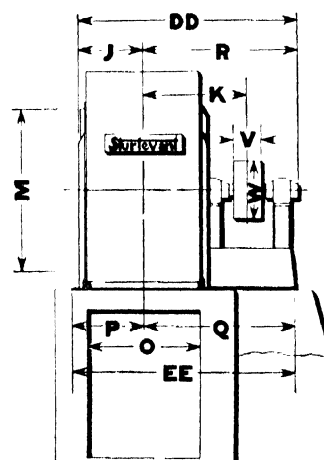
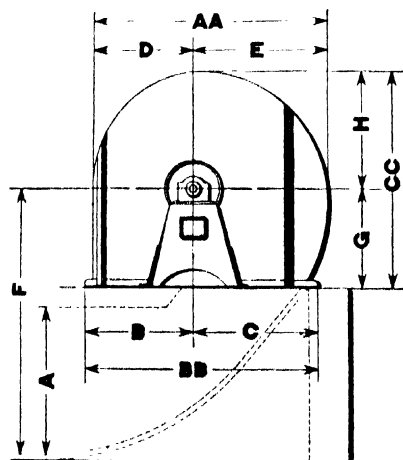
## Multivane Fan—Design 3

Single Width

 $\frac{7}{8}$  Housing

Bottom Horizontal Discharge

Overhung Wheel



| Size | A                | B                | C                | D                | E                 | F                | G                | H                | J                 | K                | M                | O                | P                | Q                | R  | V                 | W                 | AA                | BB                | CC                | DD               | EE              | Extremo<br>Wheel<br>Diameter | Shaft<br>Dia | Anchor Bolts<br>Hanger | Fan |
|------|------------------|------------------|------------------|------------------|-------------------|------------------|------------------|------------------|-------------------|------------------|------------------|------------------|------------------|------------------|----|-------------------|-------------------|-------------------|-------------------|-------------------|------------------|-----------------|------------------------------|--------------|------------------------|-----|
| 1050 | 35 $\frac{1}{4}$ | 39 $\frac{1}{2}$ | 32 $\frac{1}{2}$ | 13 $\frac{1}{2}$ | 86 $\frac{1}{2}$  | 37 $\frac{1}{2}$ | 21 $\frac{1}{2}$ | 33 $\frac{1}{2}$ | 51 $\frac{1}{2}$  | 38 $\frac{1}{2}$ | 22 $\frac{1}{2}$ | 48 $\frac{1}{2}$ | 49 $\frac{1}{2}$ | 10 $\frac{1}{2}$ | 20 | 76 $\frac{1}{2}$  | 75 $\frac{1}{2}$  | 69 $\frac{1}{2}$  | 71 $\frac{1}{2}$  | 71 $\frac{1}{2}$  | 52 $\frac{1}{2}$ | 2 $\frac{1}{2}$ | 1                            | 7            |                        |     |
| 1156 | 39 $\frac{1}{2}$ | 44 $\frac{1}{2}$ | 36 $\frac{1}{2}$ | 14 $\frac{1}{2}$ | 96 $\frac{1}{2}$  | 42 $\frac{1}{2}$ | 23 $\frac{1}{2}$ | 36 $\frac{1}{2}$ | 61 $\frac{1}{2}$  | 42 $\frac{1}{2}$ | 25 $\frac{1}{2}$ | 53 $\frac{1}{2}$ | 54 $\frac{1}{2}$ | 12 $\frac{1}{2}$ | 22 | 85 $\frac{1}{2}$  | 84 $\frac{1}{2}$  | 78 $\frac{1}{2}$  | 78 $\frac{1}{2}$  | 78 $\frac{1}{2}$  | 58 $\frac{1}{2}$ | 2 $\frac{1}{2}$ | 1                            | 7            |                        |     |
| 1262 | 44 $\frac{1}{2}$ | 49 $\frac{1}{2}$ | 40 $\frac{1}{2}$ | 15 $\frac{1}{2}$ | 106 $\frac{1}{2}$ | 47 $\frac{1}{2}$ | 26 $\frac{1}{2}$ | 40 $\frac{1}{2}$ | 68 $\frac{1}{2}$  | 47 $\frac{1}{2}$ | 28 $\frac{1}{2}$ | 59 $\frac{1}{2}$ | 60 $\frac{1}{2}$ | 12 $\frac{1}{2}$ | 24 | 95 $\frac{1}{2}$  | 94 $\frac{1}{2}$  | 86 $\frac{1}{2}$  | 86 $\frac{1}{2}$  | 87 $\frac{1}{2}$  | 65 $\frac{1}{2}$ | 3 $\frac{1}{2}$ | 1                            | 7            |                        |     |
| 1368 | 49 $\frac{1}{2}$ | 54 $\frac{1}{2}$ | 44 $\frac{1}{2}$ | 16 $\frac{1}{2}$ | 116 $\frac{1}{2}$ | 51 $\frac{1}{2}$ | 28 $\frac{1}{2}$ | 44 $\frac{1}{2}$ | 74 $\frac{1}{2}$  | 52 $\frac{1}{2}$ | 30 $\frac{1}{2}$ | 65 $\frac{1}{2}$ | 67 $\frac{1}{2}$ | 13 $\frac{1}{2}$ | 28 | 104 $\frac{1}{2}$ | 103 $\frac{1}{2}$ | 95 $\frac{1}{2}$  | 95 $\frac{1}{2}$  | 96 $\frac{1}{2}$  | 72 $\frac{1}{2}$ | 3 $\frac{1}{2}$ | 1                            | 7            |                        |     |
| 1475 | 53 $\frac{1}{2}$ | 60 $\frac{1}{2}$ | 48 $\frac{1}{2}$ | 17 $\frac{1}{2}$ | 126 $\frac{1}{2}$ | 56 $\frac{1}{2}$ | 31 $\frac{1}{2}$ | 48 $\frac{1}{2}$ | 81 $\frac{1}{2}$  | 57 $\frac{1}{2}$ | 33 $\frac{1}{2}$ | 70 $\frac{1}{2}$ | 72 $\frac{1}{2}$ | 13 $\frac{1}{2}$ | 32 | 114 $\frac{1}{2}$ | 113 $\frac{1}{2}$ | 103 $\frac{1}{2}$ | 103 $\frac{1}{2}$ | 103 $\frac{1}{2}$ | 78 $\frac{1}{2}$ | 4 $\frac{1}{2}$ | 1                            | 7            |                        |     |
| 1581 | 57 $\frac{1}{2}$ | 64 $\frac{1}{2}$ | 52 $\frac{1}{2}$ | 18 $\frac{1}{2}$ | 136 $\frac{1}{2}$ | 61 $\frac{1}{2}$ | 33 $\frac{1}{2}$ | 51 $\frac{1}{2}$ | 88 $\frac{1}{2}$  | 61 $\frac{1}{2}$ | 36 $\frac{1}{2}$ | 73 $\frac{1}{2}$ | 75 $\frac{1}{2}$ | 14 $\frac{1}{2}$ | 36 | 123 $\frac{1}{2}$ | 122 $\frac{1}{2}$ | 111 $\frac{1}{2}$ | 109 $\frac{1}{2}$ | 109 $\frac{1}{2}$ | 85 $\frac{1}{2}$ | 4 $\frac{1}{2}$ | 1                            | 7            |                        |     |
| 1687 | 62 $\frac{1}{2}$ | 70 $\frac{1}{2}$ | 56 $\frac{1}{2}$ | 19 $\frac{1}{2}$ | 146 $\frac{1}{2}$ | 65 $\frac{1}{2}$ | 36 $\frac{1}{2}$ | 55 $\frac{1}{2}$ | 95 $\frac{1}{2}$  | 66 $\frac{1}{2}$ | 39 $\frac{1}{2}$ | 79 $\frac{1}{2}$ | 81 $\frac{1}{2}$ | 14 $\frac{1}{2}$ | 42 | 133 $\frac{1}{2}$ | 132 $\frac{1}{2}$ | 120 $\frac{1}{2}$ | 117 $\frac{1}{2}$ | 119 $\frac{1}{2}$ | 91 $\frac{1}{2}$ | 5 $\frac{1}{2}$ | 1                            | 7            |                        |     |
| 1793 | 66 $\frac{1}{2}$ | 74 $\frac{1}{2}$ | 60 $\frac{1}{2}$ | 20 $\frac{1}{2}$ | 156 $\frac{1}{2}$ | 70 $\frac{1}{2}$ | 38 $\frac{1}{2}$ | 57 $\frac{1}{2}$ | 101 $\frac{1}{2}$ | 71 $\frac{1}{2}$ | 41 $\frac{1}{2}$ | 82 $\frac{1}{2}$ | 84 $\frac{1}{2}$ | 14 $\frac{1}{2}$ | 48 | 142 $\frac{1}{2}$ | 140 $\frac{1}{2}$ | 128 $\frac{1}{2}$ | 122 $\frac{1}{2}$ | 123 $\frac{1}{2}$ | 98 $\frac{1}{2}$ | 5 $\frac{1}{2}$ | 1                            | 1            |                        |     |

Single Inlet

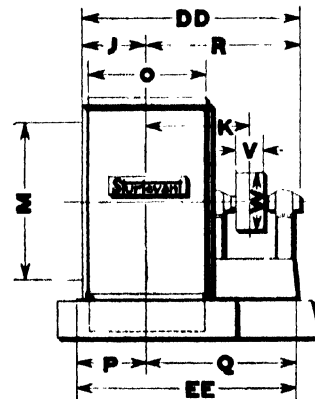
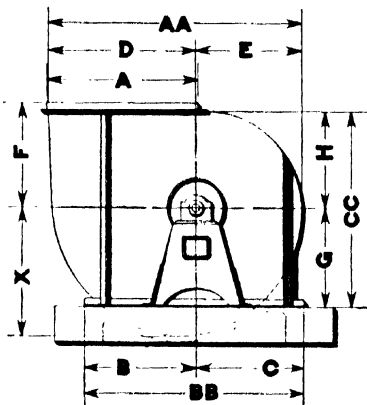
## Multivane Fan—Design 3

Single Width

 $\frac{7}{8}$  Housing

Up Blast Discharge

Overhung Wheel



| Size | A  | B  | C  | D  | E  | F  | G  | H  | J  | K  | M   | O  | P  | Q  | R  | V  | W  | X  | AA  | BB  | CC  | DD  | EE  | Extreme Wheel Diameter | Shaft Diameter | Anchor Bolts Hanger | Anchor Bolts Fan |
|------|----|----|----|----|----|----|----|----|----|----|-----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|------------------------|----------------|---------------------|------------------|
| 10   | 50 | 36 | 28 | 49 | 31 | 32 | 32 | 30 | 21 | 33 | 54  | 38 | 22 | 18 | 49 | 10 | 20 | 40 | 83  | 64  | 62  | 71  | 71  | 52                     | 2              | 1                   | 1                |
| 11   | 56 | 40 | 31 | 55 | 39 | 36 | 35 | 33 | 23 | 36 | 61  | 43 | 25 | 53 | 54 | 12 | 22 | 45 | 94  | 71  | 69  | 78  | 78  | 58                     | 2              | 1                   | 1                |
| 12   | 63 | 45 | 36 | 61 | 43 | 40 | 39 | 37 | 26 | 40 | 68  | 48 | 28 | 59 | 60 | 12 | 24 | 50 | 104 | 81  | 77  | 86  | 87  | 65                     | 3              | 1                   | 1                |
| 13   | 69 | 49 | 39 | 67 | 47 | 43 | 43 | 41 | 28 | 44 | 74  | 53 | 30 | 65 | 67 | 13 | 28 | 55 | 115 | 88  | 84  | 95  | 96  | 72                     | 3              | 1                   | 1                |
| 14   | 75 | 55 | 50 | 73 | 51 | 47 | 47 | 45 | 31 | 48 | 81  | 57 | 33 | 70 | 72 | 13 | 32 | 60 | 125 | 105 | 92  | 103 | 103 | 78                     | 4              | 1                   | 1                |
| 15   | 82 | 59 | 53 | 79 | 56 | 52 | 50 | 48 | 33 | 51 | 88  | 62 | 36 | 73 | 75 | 14 | 36 | 66 | 136 | 113 | 99  | 109 | 109 | 85                     | 4              | 1                   | 1                |
| 16   | 88 | 64 | 58 | 85 | 60 | 56 | 54 | 52 | 36 | 55 | 95  | 67 | 39 | 79 | 81 | 14 | 42 | 71 | 146 | 122 | 107 | 117 | 119 | 91                     | 5              | 1                   | 1                |
| 17   | 94 | 68 | 62 | 92 | 64 | 59 | 58 | 56 | 38 | 57 | 101 | 72 | 41 | 82 | 84 | 14 | 48 | 76 | 156 | 130 | 114 | 122 | 123 | 98                     | 5              | 1                   | 1                |



Single Inlet

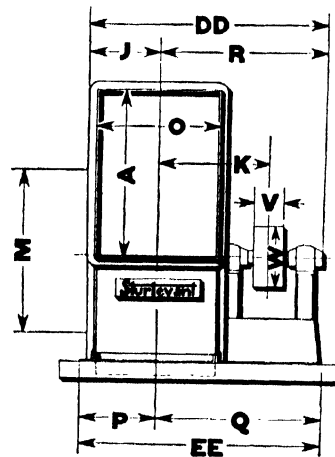
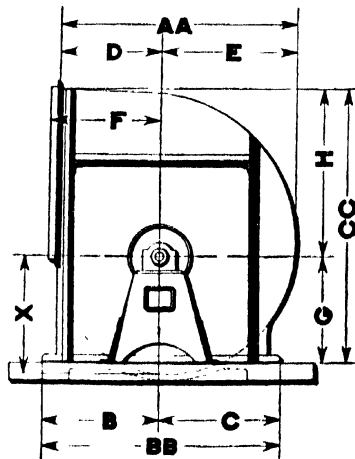
**Multivane Fan—Design 3**

Single Width

 $\frac{7}{8}$  Housing

Top Horizontal Discharge

Overhung Wheel



| Size | A  | B  | C  | D  | E  | F  | G  | H  | J | K  | M   | O  | P  | Q  | R  | V  | W  | X  | AA  | BB  | CC  | DD  | EE  | Extreme Wheel Diameter | Shaft Diameter | Anchor Bolts Hanger | Fan |
|------|----|----|----|----|----|----|----|----|---|----|-----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|------------------------|----------------|---------------------|-----|
| 1050 | 25 | 34 | 30 | 10 | 32 | 42 | 49 | 21 | 3 | 33 | 51  | 38 | 22 | 18 | 49 | 10 | 20 | 34 | 70  | 59  | 81  | 71  | 71  | 52                     | 2 1/8          | 1                   | 7/8 |
| 1156 | 28 | 38 | 33 | 15 | 36 | 35 | 55 | 23 | 1 | 36 | 61  | 43 | 25 | 53 | 51 | 12 | 22 | 39 | 79  | 66  | 91  | 78  | 78  | 58                     | 2 1/8          | 1                   | 7/8 |
| 1263 | 32 | 42 | 37 | 50 | 10 | 39 | 61 | 26 |   | 40 | 68  | 48 | 28 | 59 | 60 | 12 | 24 | 43 | 88  | 75  | 100 | 86  | 87  | 65                     | 3 1/8          | 1                   | 7/8 |
| 1369 | 35 | 46 | 41 | 55 | 13 | 43 | 67 | 28 |   | 44 | 74  | 53 | 30 | 65 | 67 | 13 | 28 | 47 | 97  | 81  | 110 | 95  | 96  | 72                     | 3 1/8          | 1                   | 7/8 |
| 1475 | 50 | 50 | 45 | 60 | 17 | 73 | 31 |    |   | 48 | 81  | 57 | 33 | 70 | 72 | 13 | 32 | 51 | 106 | 100 | 120 | 103 | 103 | 78                     | 4 1/2          | 1                   | 7/8 |
| 1582 | 53 | 53 | 48 | 66 | 52 | 50 | 79 |    |   | 51 | 88  | 62 | 36 | 73 | 75 | 14 | 36 | 56 | 114 | 107 | 130 | 109 | 109 | 85                     | 4 1/2          | 1                   | 7/8 |
| 1688 | 58 | 58 | 52 | 71 | 56 | 51 | 85 |    |   | 55 | 95  | 67 | 39 | 79 | 81 | 14 | 42 | 60 | 123 | 117 | 140 | 117 | 119 | 91                     | 5              | 1 1/4               | 7/8 |
| 1794 | 62 | 62 | 56 | 76 | 59 | 58 | 92 |    |   | 57 | 101 | 72 | 41 | 82 | 84 | 14 | 48 | 64 | 132 | 124 | 150 | 122 | 123 | 98                     | 5              | 1 1/4               | 1   |

Single Inlet

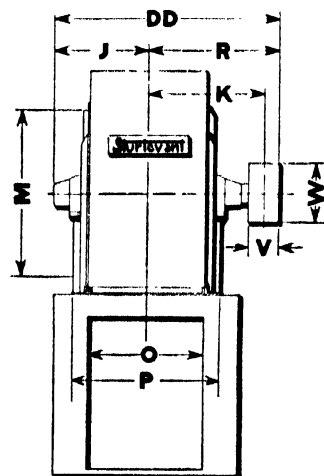
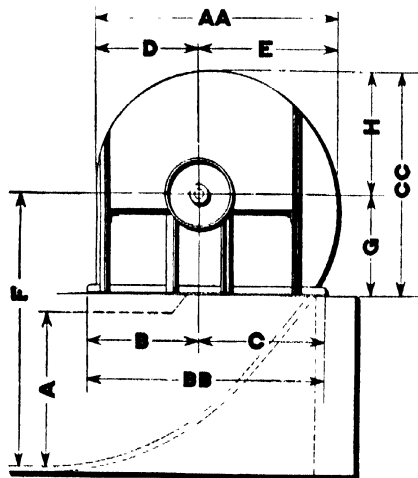
## Multivane Fan—Design 3

Single Width

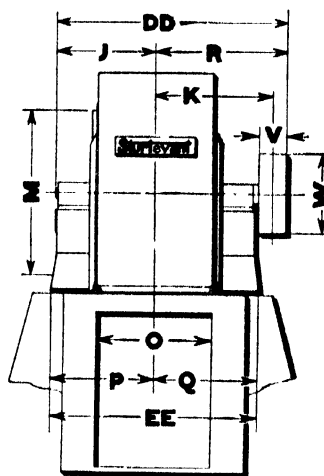
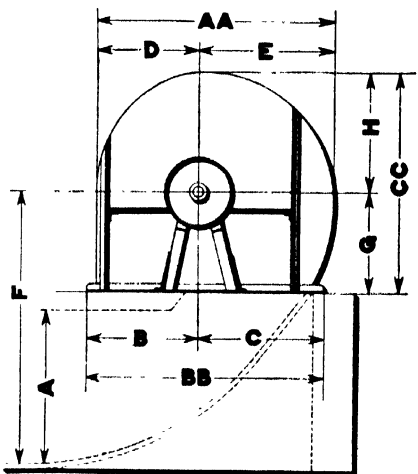
 $\frac{7}{8}$  Housing

Bottom Horizontal Discharge

Overhung Pulley



| Size | A                | B                | C                | D                | E                | F   | G                | H                | J                | K                | M                 | O                | P                | R                | V                | W  | AA                | BB                | CC                | DD                | Extreme Wheel Diameter | Shaft Diameter  | Anchor Bolts |
|------|------------------|------------------|------------------|------------------|------------------|-----|------------------|------------------|------------------|------------------|-------------------|------------------|------------------|------------------|------------------|----|-------------------|-------------------|-------------------|-------------------|------------------------|-----------------|--------------|
| 10   | 50               | 35 $\frac{1}{2}$ | 39 $\frac{1}{2}$ | 32 $\frac{1}{2}$ | 43 $\frac{1}{2}$ | 86  | 32               | 37 $\frac{1}{2}$ | 30 $\frac{1}{2}$ | 32               | 54 $\frac{1}{2}$  | 38               | 45 $\frac{1}{2}$ | 37 $\frac{1}{2}$ | 10 $\frac{1}{2}$ | 20 | 76 $\frac{1}{2}$  | 75 $\frac{1}{2}$  | 69 $\frac{1}{2}$  | 67 $\frac{1}{2}$  | 52 $\frac{1}{2}$       | 2 $\frac{1}{2}$ | 1            |
| 11   | 56 $\frac{1}{2}$ | 39 $\frac{1}{2}$ | 41 $\frac{1}{2}$ | 36 $\frac{1}{2}$ | 49 $\frac{1}{2}$ | 96  | 35 $\frac{1}{2}$ | 42 $\frac{1}{2}$ | 33 $\frac{1}{2}$ | 35 $\frac{1}{2}$ | 61 $\frac{1}{2}$  | 42 $\frac{1}{2}$ | 50 $\frac{1}{2}$ | 41 $\frac{1}{2}$ | 12               | 22 | 85 $\frac{1}{2}$  | 84 $\frac{1}{2}$  | 78 $\frac{1}{2}$  | 74 $\frac{1}{2}$  | 58 $\frac{1}{2}$       | 2 $\frac{1}{2}$ | 1            |
| 12   | 62 $\frac{1}{2}$ | 44 $\frac{1}{2}$ | 49 $\frac{1}{2}$ | 40 $\frac{1}{2}$ | 54 $\frac{1}{2}$ | 106 | 39 $\frac{1}{2}$ | 47 $\frac{1}{2}$ | 37 $\frac{1}{2}$ | 39 $\frac{1}{2}$ | 68 $\frac{1}{2}$  | 47 $\frac{1}{2}$ | 56 $\frac{1}{2}$ | 45 $\frac{1}{2}$ | 12               | 24 | 95 $\frac{1}{2}$  | 94 $\frac{1}{2}$  | 88 $\frac{1}{2}$  | 82 $\frac{1}{2}$  | 65 $\frac{1}{2}$       | 3 $\frac{1}{2}$ | 1            |
| 13   | 68 $\frac{1}{2}$ | 49 $\frac{1}{2}$ | 54 $\frac{1}{2}$ | 44 $\frac{1}{2}$ | 60 $\frac{1}{2}$ | 116 | 43 $\frac{1}{2}$ | 51 $\frac{1}{2}$ | 41 $\frac{1}{2}$ | 43 $\frac{1}{2}$ | 7 $\frac{1}{2}$   | 52 $\frac{1}{2}$ | 61 $\frac{1}{2}$ | 50 $\frac{1}{2}$ | 13 $\frac{1}{2}$ | 28 | 104 $\frac{1}{2}$ | 103 $\frac{1}{2}$ | 95 $\frac{1}{2}$  | 91 $\frac{1}{2}$  | 72 $\frac{1}{2}$       | 3 $\frac{1}{2}$ | 1            |
| 14   | 75 $\frac{1}{2}$ | 5 $\frac{1}{2}$  | 60 $\frac{1}{2}$ | 48 $\frac{1}{2}$ | 65 $\frac{1}{2}$ | 126 | 47 $\frac{1}{2}$ | 56 $\frac{1}{2}$ | 45 $\frac{1}{2}$ | 46 $\frac{1}{2}$ | 81 $\frac{1}{2}$  | 57 $\frac{1}{2}$ | 67 $\frac{1}{2}$ | 53 $\frac{1}{2}$ | 13 $\frac{1}{2}$ | 32 | 114 $\frac{1}{2}$ | 113 $\frac{1}{2}$ | 103 $\frac{1}{2}$ | 98 $\frac{1}{2}$  | 78 $\frac{1}{2}$       | 4 $\frac{1}{2}$ | 1            |
| 15   | 81 $\frac{1}{2}$ | 57 $\frac{1}{2}$ | 64 $\frac{1}{2}$ | 52 $\frac{1}{2}$ | 71 $\frac{1}{2}$ | 136 | 50 $\frac{1}{2}$ | 61 $\frac{1}{2}$ | 47 $\frac{1}{2}$ | 49 $\frac{1}{2}$ | 88 $\frac{1}{2}$  | 61 $\frac{1}{2}$ | 72 $\frac{1}{2}$ | 56 $\frac{1}{2}$ | 14 $\frac{1}{2}$ | 36 | 123 $\frac{1}{2}$ | 122 $\frac{1}{2}$ | 111 $\frac{1}{2}$ | 104 $\frac{1}{2}$ | 85 $\frac{1}{2}$       | 4 $\frac{1}{2}$ | 1            |
| 16   | 87 $\frac{1}{2}$ | 62 $\frac{1}{2}$ | 70 $\frac{1}{2}$ | 56 $\frac{1}{2}$ | 76 $\frac{1}{2}$ | 146 | 54 $\frac{1}{2}$ | 65 $\frac{1}{2}$ | 51 $\frac{1}{2}$ | 53 $\frac{1}{2}$ | 95 $\frac{1}{2}$  | 66 $\frac{1}{2}$ | 78 $\frac{1}{2}$ | 60 $\frac{1}{2}$ | 14 $\frac{1}{2}$ | 42 | 133 $\frac{1}{2}$ | 132 $\frac{1}{2}$ | 120 $\frac{1}{2}$ | 112 $\frac{1}{2}$ | 91 $\frac{1}{2}$       | 5 $\frac{1}{2}$ | 1            |
| 17   | 93 $\frac{1}{2}$ | 66 $\frac{1}{2}$ | 74 $\frac{1}{2}$ | 60 $\frac{1}{2}$ | 82 $\frac{1}{2}$ | 156 | 58 $\frac{1}{2}$ | 70 $\frac{1}{2}$ | 53 $\frac{1}{2}$ | 55 $\frac{1}{2}$ | 101 $\frac{1}{2}$ | 71 $\frac{1}{2}$ | 83 $\frac{1}{2}$ | 63 $\frac{1}{2}$ | 14 $\frac{1}{2}$ | 48 | 142 $\frac{1}{2}$ | 140 $\frac{1}{2}$ | 128 $\frac{1}{2}$ | 116 $\frac{1}{2}$ | 98 $\frac{1}{2}$       | 5 $\frac{1}{2}$ | 1            |



| Size  | A                 | B                 | C                | D                 | E                 | F                | G                 | H                | J                 | M                 | O                | P                | Q                 | AA                | BB                | CC                | EE                | Extreme Wheel Diameter | Shaft Dia. | Anchor Bolts |
|-------|-------------------|-------------------|------------------|-------------------|-------------------|------------------|-------------------|------------------|-------------------|-------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------------------------|------------|--------------|
| 18100 | 70 $\frac{1}{2}$  | 79 $\frac{1}{2}$  | 64 $\frac{1}{2}$ | 87 $\frac{1}{2}$  | 166 $\frac{1}{2}$ | 62               | 75 $\frac{1}{2}$  | 65 $\frac{1}{2}$ | 108 $\frac{1}{2}$ | 76                | 65 $\frac{1}{2}$ | 65 $\frac{1}{2}$ | 152 $\frac{1}{2}$ | 119 $\frac{1}{2}$ | 137 $\frac{1}{2}$ | 130 $\frac{1}{2}$ | 104 $\frac{1}{2}$ | 5 $\frac{1}{2}$        | 1          | 1            |
| 20112 | 78 $\frac{1}{2}$  | 88 $\frac{1}{2}$  | 72 $\frac{1}{2}$ | 98 $\frac{1}{2}$  | 185 $\frac{1}{2}$ | 68 $\frac{1}{2}$ | 84 $\frac{1}{2}$  | 70 $\frac{1}{2}$ | 122 $\frac{1}{2}$ | 85 $\frac{1}{2}$  | 71 $\frac{1}{2}$ | 71 $\frac{1}{2}$ | 171 $\frac{1}{2}$ | 167 $\frac{1}{2}$ | 153 $\frac{1}{2}$ | 142 $\frac{1}{2}$ | 118               | 6                      | 1          | 1            |
| 22125 | 86 $\frac{1}{2}$  | 98 $\frac{1}{2}$  | 80 $\frac{1}{2}$ | 109 $\frac{1}{2}$ | 204 $\frac{1}{2}$ | 75 $\frac{1}{2}$ | 93 $\frac{1}{2}$  | 75 $\frac{1}{2}$ | 135 $\frac{1}{2}$ | 95 $\frac{1}{2}$  | 77 $\frac{1}{2}$ | 77 $\frac{1}{2}$ | 190 $\frac{1}{2}$ | 185 $\frac{1}{2}$ | 168 $\frac{1}{2}$ | 154 $\frac{1}{2}$ | 131               | 6                      | 1          | 1            |
| 24137 | 94 $\frac{1}{2}$  | 107 $\frac{1}{2}$ | 88 $\frac{1}{2}$ | 120 $\frac{1}{2}$ | 223 $\frac{1}{2}$ | 81 $\frac{1}{2}$ | 103 $\frac{1}{2}$ | 79 $\frac{1}{2}$ | 149 $\frac{1}{2}$ | 104 $\frac{1}{2}$ | 82 $\frac{1}{2}$ | 82 $\frac{1}{2}$ | 209 $\frac{1}{2}$ | 202 $\frac{1}{2}$ | 184 $\frac{1}{2}$ | 165 $\frac{1}{2}$ | 144               | 6                      | 1          | 1            |
| 26150 | 102 $\frac{1}{2}$ | 117 $\frac{1}{2}$ | 96 $\frac{1}{2}$ | 131 $\frac{1}{2}$ | 242 $\frac{1}{2}$ | 88 $\frac{1}{2}$ | 112 $\frac{1}{2}$ | 84 $\frac{1}{2}$ | 162 $\frac{1}{2}$ | 114               | 88 $\frac{1}{2}$ | 88 $\frac{1}{2}$ | 228 $\frac{1}{2}$ | 220 $\frac{1}{2}$ | 200 $\frac{1}{2}$ | 176 $\frac{1}{2}$ | 157               | 6                      | 1          | 1            |

Single Inlet

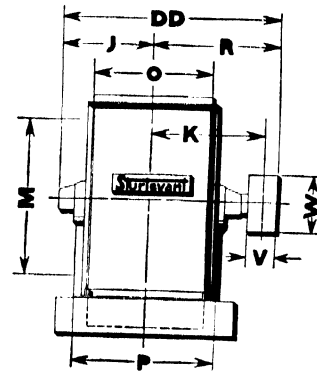
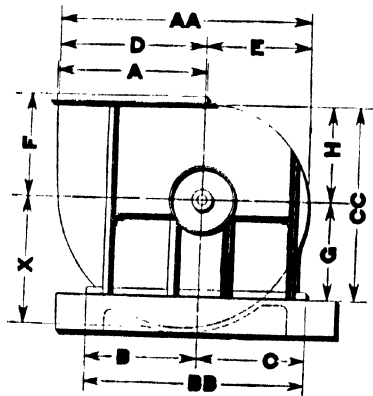
## Multivane Fan—Design 3

Single Width

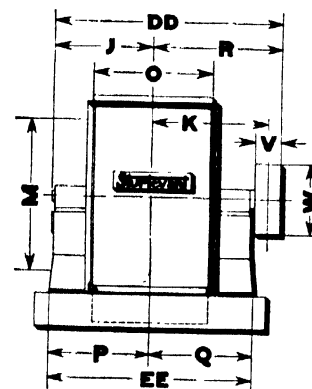
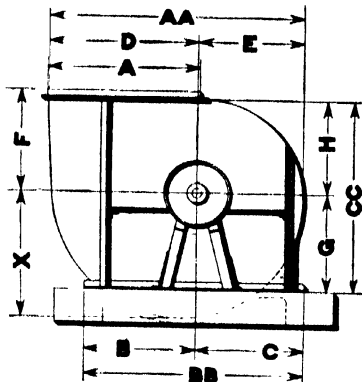
 $\frac{7}{8}$  Housing

Up Blast Discharge

Overhung Pulley



| Size | A  | B  | C  | D  | E  | F  | G  | H  | J  | K  | M   | O  | P  | R  | V  | W  | X  | AA  | BB  | CC  | DD  | Extreme Wheel Diameter | Shaft Diameter | Anchor Bolts |
|------|----|----|----|----|----|----|----|----|----|----|-----|----|----|----|----|----|----|-----|-----|-----|-----|------------------------|----------------|--------------|
| 10   | 50 | 36 | 28 | 19 | 31 | 32 | 32 | 30 | 30 | 32 | 54  | 38 | 45 | 37 | 10 | 20 | 40 | 83  | 64  | 62  | 67  | 52                     | 2 1/8          | 1            |
| 11   | 56 | 40 | 31 | 25 | 39 | 36 | 35 | 33 | 33 | 35 | 61  | 43 | 50 | 41 | 12 | 22 | 45 | 94  | 71  | 69  | 74  | 58                     | 2 1/8          | 1            |
| 12   | 63 | 45 | 36 | 28 | 43 | 40 | 39 | 37 | 37 | 39 | 68  | 48 | 56 | 45 | 12 | 24 | 50 | 104 | 81  | 77  | 82  | 65                     | 3 1/8          | 1            |
| 13   | 69 | 49 | 39 | 31 | 47 | 43 | 43 | 41 | 41 | 43 | 71  | 53 | 61 | 50 | 13 | 28 | 55 | 115 | 89  | 84  | 91  | 72                     | 3 1/8          | 1            |
| 14   | 75 | 53 | 43 | 34 | 51 | 47 | 47 | 45 | 45 | 46 | 81  | 57 | 67 | 53 | 13 | 32 | 60 | 125 | 105 | 92  | 98  | 78                     | 3 1/8          | 1            |
| 15   | 82 | 59 | 47 | 37 | 56 | 52 | 50 | 48 | 47 | 49 | 88  | 62 | 72 | 56 | 14 | 36 | 66 | 136 | 113 | 99  | 104 | 85                     | 4              | 1            |
| 16   | 88 | 61 | 58 | 40 | 60 | 56 | 54 | 52 | 51 | 53 | 95  | 67 | 78 | 60 | 14 | 42 | 71 | 146 | 122 | 107 | 112 | 91                     | 5              | 1            |
| 17   | 94 | 68 | 62 | 44 | 64 | 59 | 58 | 56 | 53 | 55 | 101 | 72 | 83 | 63 | 14 | 48 | 76 | 156 | 130 | 114 | 116 | 98                     | 5              | 1            |



| Size | A   | B   | C  | D   | E   | F  | G  | H  | J  | M   | O   | P  | Q  | N   | AA  | BB  | CC  | EE  | Extreme Wheel Diameter | Shaft Diameter | Anchor Bolts |
|------|-----|-----|----|-----|-----|----|----|----|----|-----|-----|----|----|-----|-----|-----|-----|-----|------------------------|----------------|--------------|
| 18   | 100 | 72  | 66 | 98  | 69  | 63 | 62 | 60 | 65 | 108 | 76  | 65 | 65 | 81  | 167 | 138 | 122 | 130 | 104                    | 5              | 1 1/4        |
| 20   | 113 | 81  | 73 | 110 | 77  | 72 | 68 | 67 | 70 | 122 | 86  | 71 | 71 | 91  | 188 | 151 | 136 | 142 | 118                    | 6              | 1 1/4        |
| 22   | 125 | 90  | 81 | 122 | 86  | 79 | 75 | 75 | 75 | 135 | 96  | 77 | 77 | 101 | 209 | 171 | 150 | 154 | 131                    | 6              | 1 1/4        |
| 24   | 138 | 98  | 88 | 131 | 95  | 87 | 81 | 82 | 79 | 149 | 105 | 82 | 82 | 111 | 229 | 187 | 161 | 165 | 144                    | 6              | 1 1/4        |
| 26   | 150 | 108 | 96 | 147 | 103 | 94 | 88 | 90 | 81 | 162 | 115 | 88 | 88 | 121 | 250 | 204 | 178 | 176 | 157                    | 6              | 1 1/4        |

Single Inlet

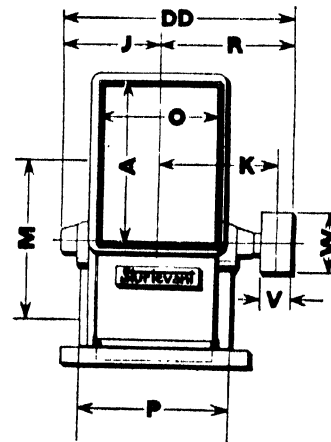
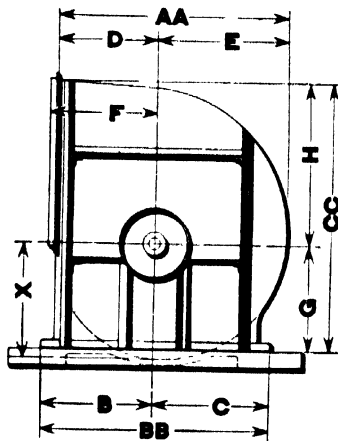
## Multivane Fan—Design 3

Single Width

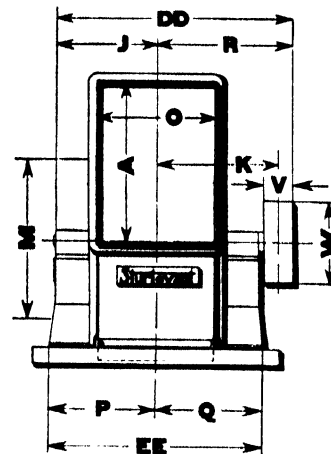
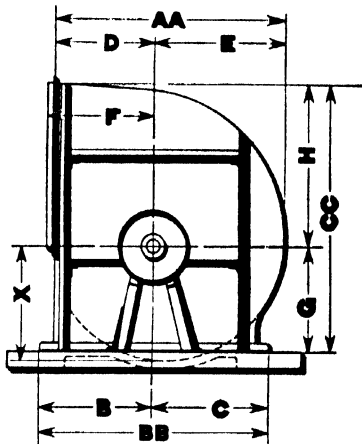
 $\frac{7}{8}$  Housing

Top Horizontal Discharge

Overhung Pulley



| Size | A                | B                | C                | D                | E                | F                | G                | H                | J                | K                | M                 | O                | P                | R                | V                | W  | X                | AA                | BB                | CC                | DD                | Extreme Wheel Diameter | Shaft Diameter  | Anchor Bolts |
|------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|------------------|------------------|------------------|------------------|----|------------------|-------------------|-------------------|-------------------|-------------------|------------------------|-----------------|--------------|
| 10   | 50 $\frac{1}{2}$ | 25 $\frac{1}{2}$ | 31 $\frac{1}{2}$ | 30 $\frac{1}{2}$ | 40 $\frac{1}{2}$ | 32 $\frac{1}{2}$ | 32               | 49 $\frac{1}{2}$ | 30 $\frac{1}{2}$ | 32               | 54 $\frac{1}{2}$  | 38 $\frac{1}{2}$ | 45 $\frac{1}{2}$ | 37 $\frac{1}{2}$ | 10 $\frac{1}{2}$ | 20 | 34 $\frac{1}{2}$ | 70 $\frac{1}{2}$  | 59 $\frac{1}{2}$  | 81 $\frac{1}{2}$  | 67 $\frac{1}{2}$  | 52 $\frac{1}{2}$       | 2 $\frac{1}{8}$ | 7            |
| 11   | 56 $\frac{1}{2}$ | 28 $\frac{1}{2}$ | 38 $\frac{1}{2}$ | 33 $\frac{1}{2}$ | 45 $\frac{1}{2}$ | 36 $\frac{1}{2}$ | 35 $\frac{1}{2}$ | 55 $\frac{1}{2}$ | 33 $\frac{1}{2}$ | 35 $\frac{1}{2}$ | 61 $\frac{1}{2}$  | 43 $\frac{1}{2}$ | 50 $\frac{1}{2}$ | 41 $\frac{1}{2}$ | 12 $\frac{1}{2}$ | 22 | 39 $\frac{1}{2}$ | 79 $\frac{1}{2}$  | 66 $\frac{1}{2}$  | 91 $\frac{1}{2}$  | 74 $\frac{1}{2}$  | 58 $\frac{1}{2}$       | 2 $\frac{1}{8}$ | 7            |
| 12   | 63 $\frac{1}{2}$ | 32 $\frac{1}{2}$ | 42 $\frac{1}{2}$ | 37 $\frac{1}{2}$ | 50 $\frac{1}{2}$ | 40 $\frac{1}{2}$ | 39 $\frac{1}{2}$ | 61 $\frac{1}{2}$ | 37 $\frac{1}{2}$ | 39 $\frac{1}{2}$ | 68 $\frac{1}{2}$  | 48 $\frac{1}{2}$ | 56 $\frac{1}{2}$ | 45 $\frac{1}{2}$ | 12 $\frac{1}{2}$ | 24 | 43 $\frac{1}{2}$ | 88 $\frac{1}{2}$  | 75 $\frac{1}{2}$  | 100 $\frac{1}{2}$ | 82 $\frac{1}{2}$  | 65 $\frac{1}{2}$       | 3 $\frac{1}{8}$ | 7            |
| 13   | 69 $\frac{1}{2}$ | 35 $\frac{1}{2}$ | 46 $\frac{1}{2}$ | 41 $\frac{1}{2}$ | 55 $\frac{1}{2}$ | 43 $\frac{1}{2}$ | 43 $\frac{1}{2}$ | 67 $\frac{1}{2}$ | 41 $\frac{1}{2}$ | 43 $\frac{1}{2}$ | 74 $\frac{1}{2}$  | 53 $\frac{1}{2}$ | 61 $\frac{1}{2}$ | 50 $\frac{1}{2}$ | 13 $\frac{1}{2}$ | 28 | 47 $\frac{1}{2}$ | 97 $\frac{1}{2}$  | 81 $\frac{1}{2}$  | 110 $\frac{1}{2}$ | 91 $\frac{1}{2}$  | 72 $\frac{1}{2}$       | 3 $\frac{1}{8}$ | 7            |
| 14   | 75 $\frac{1}{2}$ | 50 $\frac{1}{2}$ | 50 $\frac{1}{2}$ | 45 $\frac{1}{2}$ | 60 $\frac{1}{2}$ | 47 $\frac{1}{2}$ | 47 $\frac{1}{2}$ | 73 $\frac{1}{2}$ | 45 $\frac{1}{2}$ | 46 $\frac{1}{2}$ | 81 $\frac{1}{2}$  | 57 $\frac{1}{2}$ | 67 $\frac{1}{2}$ | 53 $\frac{1}{2}$ | 13 $\frac{1}{2}$ | 32 | 51 $\frac{1}{2}$ | 106 $\frac{1}{2}$ | 100 $\frac{1}{2}$ | 120 $\frac{1}{2}$ | 98 $\frac{1}{2}$  | 78 $\frac{1}{2}$       | 4 $\frac{1}{8}$ | 7            |
| 15   | 82 $\frac{1}{2}$ | 53 $\frac{1}{2}$ | 53 $\frac{1}{2}$ | 48 $\frac{1}{2}$ | 66 $\frac{1}{2}$ | 52 $\frac{1}{2}$ | 50 $\frac{1}{2}$ | 79 $\frac{1}{2}$ | 47 $\frac{1}{2}$ | 49 $\frac{1}{2}$ | 88 $\frac{1}{2}$  | 62 $\frac{1}{2}$ | 72 $\frac{1}{2}$ | 56 $\frac{1}{2}$ | 14 $\frac{1}{2}$ | 36 | 56 $\frac{1}{2}$ | 114 $\frac{1}{2}$ | 107 $\frac{1}{2}$ | 130 $\frac{1}{2}$ | 104 $\frac{1}{2}$ | 85 $\frac{1}{2}$       | 4 $\frac{1}{8}$ | 7            |
| 16   | 88 $\frac{1}{2}$ | 58 $\frac{1}{2}$ | 58 $\frac{1}{2}$ | 52 $\frac{1}{2}$ | 71 $\frac{1}{2}$ | 56 $\frac{1}{2}$ | 54 $\frac{1}{2}$ | 85 $\frac{1}{2}$ | 51 $\frac{1}{2}$ | 53 $\frac{1}{2}$ | 95 $\frac{1}{2}$  | 67 $\frac{1}{2}$ | 78 $\frac{1}{2}$ | 60 $\frac{1}{2}$ | 14 $\frac{1}{2}$ | 42 | 60 $\frac{1}{2}$ | 123 $\frac{1}{2}$ | 117 $\frac{1}{2}$ | 140 $\frac{1}{2}$ | 112 $\frac{1}{2}$ | 91 $\frac{1}{2}$       | 5 $\frac{1}{8}$ | 7            |
| 17   | 94 $\frac{1}{2}$ | 62 $\frac{1}{2}$ | 62 $\frac{1}{2}$ | 56 $\frac{1}{2}$ | 76 $\frac{1}{2}$ | 59 $\frac{1}{2}$ | 58 $\frac{1}{2}$ | 92 $\frac{1}{2}$ | 53 $\frac{1}{2}$ | 55 $\frac{1}{2}$ | 101 $\frac{1}{2}$ | 72 $\frac{1}{2}$ | 83 $\frac{1}{2}$ | 63 $\frac{1}{2}$ | 14 $\frac{1}{2}$ | 48 | 64 $\frac{1}{2}$ | 132 $\frac{1}{2}$ | 124 $\frac{1}{2}$ | 150 $\frac{1}{2}$ | 116 $\frac{1}{2}$ | 98 $\frac{1}{2}$       | 5 $\frac{1}{8}$ | 1            |



| Size | AA                | B                | C                | D                | E                 | F                | G                | H                 | J                | M                 | O                 | P                | Q                | X                 | AA                | BB                | CC                | EE                | Extreme Wheel Diameter | Shaft Diameter  | Anchor Bolts    |
|------|-------------------|------------------|------------------|------------------|-------------------|------------------|------------------|-------------------|------------------|-------------------|-------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------------------------|-----------------|-----------------|
| 18   | 100 $\frac{1}{2}$ | 66 $\frac{1}{2}$ | 66 $\frac{1}{2}$ | 60 $\frac{1}{2}$ | 81 $\frac{1}{2}$  | 63 $\frac{1}{2}$ | 62               | 98 $\frac{1}{2}$  | 65 $\frac{1}{2}$ | 108 $\frac{1}{2}$ | 76 $\frac{1}{2}$  | 65 $\frac{1}{2}$ | 65 $\frac{1}{2}$ | 69 $\frac{1}{2}$  | 141 $\frac{1}{2}$ | 132 $\frac{1}{2}$ | 160 $\frac{1}{2}$ | 130 $\frac{1}{2}$ | 104 $\frac{1}{2}$      | 5 $\frac{1}{2}$ | 1 $\frac{1}{2}$ |
| 20   | 113 $\frac{1}{2}$ | 73 $\frac{1}{2}$ | 73 $\frac{1}{2}$ | 67 $\frac{1}{2}$ | 91 $\frac{1}{2}$  | 72 $\frac{1}{2}$ | 68 $\frac{1}{2}$ | 110 $\frac{1}{2}$ | 70 $\frac{1}{2}$ | 122 $\frac{1}{2}$ | 86 $\frac{1}{2}$  | 71 $\frac{1}{2}$ | 71 $\frac{1}{2}$ | 77 $\frac{1}{2}$  | 158 $\frac{1}{2}$ | 147 $\frac{1}{2}$ | 178 $\frac{1}{2}$ | 142 $\frac{1}{2}$ | 118                    | 6               | 1 $\frac{1}{2}$ |
| 22   | 125 $\frac{1}{2}$ | 81 $\frac{1}{2}$ | 81 $\frac{1}{2}$ | 75 $\frac{1}{2}$ | 101 $\frac{1}{2}$ | 79 $\frac{1}{2}$ | 75               | 122 $\frac{1}{2}$ | 75               | 135 $\frac{1}{2}$ | 96 $\frac{1}{2}$  | 77 $\frac{1}{2}$ | 77 $\frac{1}{2}$ | 86 $\frac{1}{2}$  | 176 $\frac{1}{2}$ | 162 $\frac{1}{2}$ | 197 $\frac{1}{2}$ | 154 $\frac{1}{2}$ | 131                    | 6               | 1 $\frac{1}{2}$ |
| 24   | 138 $\frac{1}{2}$ | 88 $\frac{1}{2}$ | 88 $\frac{1}{2}$ | 82 $\frac{1}{2}$ | 111 $\frac{1}{2}$ | 87 $\frac{1}{2}$ | 81               | 134 $\frac{1}{2}$ | 79 $\frac{1}{2}$ | 149 $\frac{1}{2}$ | 105 $\frac{1}{2}$ | 82 $\frac{1}{2}$ | 82 $\frac{1}{2}$ | 95 $\frac{1}{2}$  | 194 $\frac{1}{2}$ | 177 $\frac{1}{2}$ | 216 $\frac{1}{2}$ | 165 $\frac{1}{2}$ | 144                    | 6               | 1 $\frac{1}{2}$ |
| 26   | 150 $\frac{1}{2}$ | 96 $\frac{1}{2}$ | 96 $\frac{1}{2}$ | 90 $\frac{1}{2}$ | 121 $\frac{1}{2}$ | 94 $\frac{1}{2}$ | 88               | 147 $\frac{1}{2}$ | 84 $\frac{1}{2}$ | 162 $\frac{1}{2}$ | 115               | 88 $\frac{1}{2}$ | 88 $\frac{1}{2}$ | 103 $\frac{1}{2}$ | 211 $\frac{1}{2}$ | 192 $\frac{1}{2}$ | 235 $\frac{1}{2}$ | 176 $\frac{1}{2}$ | 157                    | 6               | 1 $\frac{1}{2}$ |

Double Inlet

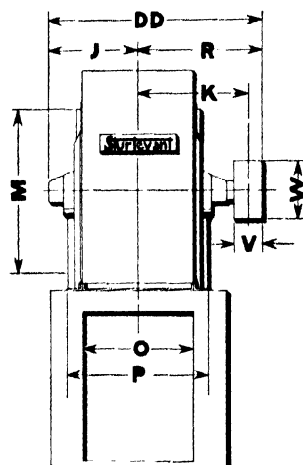
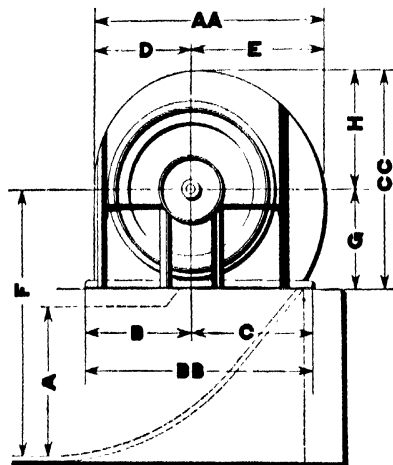
## Multivane Fan—Design 3

Single Width

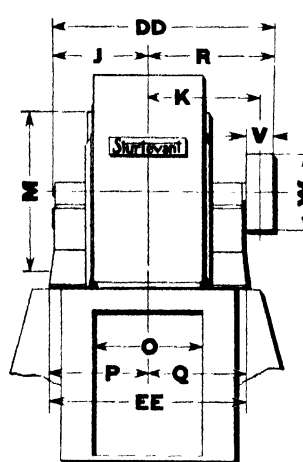
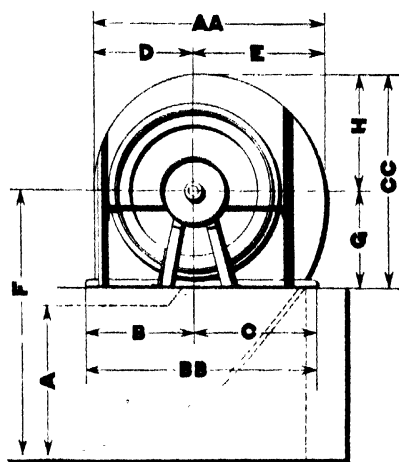
7/8 Housing

Bottom Horizontal Discharge

Overhung Pulley



| Size | A  | B  | C  | D  | E  | F   | G  | H  | J  | K  | M   | O  | P  | R  | V  | W  | AA  | BB  | CC  | DD  | Extreme Wheel Diameter | Shaft Diameter | Anchor Bolts |
|------|----|----|----|----|----|-----|----|----|----|----|-----|----|----|----|----|----|-----|-----|-----|-----|------------------------|----------------|--------------|
| 10   | 50 | 35 | 39 | 32 | 13 | 86  | 32 | 37 | 30 | 32 | 54  | 38 | 15 | 37 | 10 | 20 | 76  | 75  | 69  | 67  | 52                     | 2 1/8          | 1            |
| 11   | 56 | 39 | 44 | 36 | 19 | 96  | 35 | 42 | 33 | 35 | 61  | 42 | 50 | 41 | 12 | 22 | 85  | 81  | 78  | 74  | 58                     | 2 1/8          | 1            |
| 12   | 62 | 41 | 49 | 40 | 25 | 106 | 39 | 47 | 37 | 39 | 68  | 47 | 56 | 45 | 12 | 24 | 95  | 94  | 86  | 82  | 65                     | 3 1/8          | 1            |
| 13   | 68 | 49 | 51 | 44 | 30 | 116 | 43 | 51 | 41 | 43 | 74  | 52 | 61 | 50 | 13 | 28 | 101 | 103 | 95  | 91  | 72                     | 3 1/8          | 1            |
| 14   | 75 | 53 | 60 | 48 | 35 | 126 | 47 | 56 | 45 | 46 | 81  | 57 | 67 | 53 | 13 | 32 | 111 | 113 | 103 | 98  | 78                     | 4 1/8          | 1            |
| 15   | 81 | 57 | 64 | 52 | 40 | 136 | 50 | 61 | 47 | 49 | 88  | 61 | 72 | 56 | 14 | 36 | 123 | 122 | 111 | 104 | 85                     | 4 1/8          | 1            |
| 16   | 87 | 62 | 70 | 56 | 45 | 146 | 54 | 65 | 51 | 53 | 95  | 66 | 78 | 60 | 14 | 42 | 133 | 132 | 120 | 112 | 91                     | 5              | 1            |
| 17   | 93 | 66 | 74 | 60 | 50 | 156 | 58 | 70 | 53 | 55 | 101 | 71 | 83 | 63 | 14 | 48 | 142 | 140 | 128 | 116 | 98                     | 5              | 1            |



| Size | A   | B   | C   | D  | E   | F   | G  | H   | J  | M   | O   | P  | Q  | AA  | BB  | CC  | EE  | Extreme Wheel Diameter | Shaft Dia. | Ped. | Fan |
|------|-----|-----|-----|----|-----|-----|----|-----|----|-----|-----|----|----|-----|-----|-----|-----|------------------------|------------|------|-----|
| 18   | 100 | 70  | 79  | 61 | 87  | 166 | 62 | 75  | 65 | 108 | 76  | 65 | 65 | 152 | 119 | 137 | 130 | 101                    | 5 1/8      | 1    | 1   |
| 20   | 112 | 78  | 88  | 72 | 98  | 183 | 68 | 84  | 70 | 122 | 85  | 71 | 71 | 171 | 147 | 153 | 142 | 118                    | 6          | 1    | 1   |
| 22   | 125 | 86  | 98  | 80 | 109 | 204 | 75 | 93  | 75 | 135 | 95  | 77 | 77 | 190 | 185 | 168 | 151 | 131                    | 6          | 1    | 1   |
| 24   | 137 | 91  | 107 | 88 | 120 | 223 | 81 | 103 | 79 | 149 | 104 | 82 | 82 | 209 | 202 | 181 | 165 | 141                    | 6          | 1    | 1   |
| 26   | 150 | 102 | 117 | 96 | 131 | 242 | 88 | 112 | 84 | 162 | 114 | 88 | 88 | 228 | 220 | 200 | 176 | 157                    | 6          | 1    | 1   |

Double Inlet

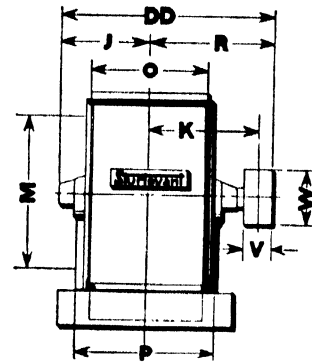
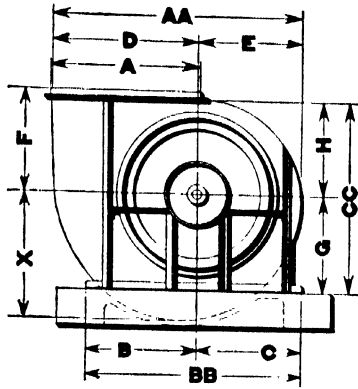
# Multivane Fan—Design 3

Single Width

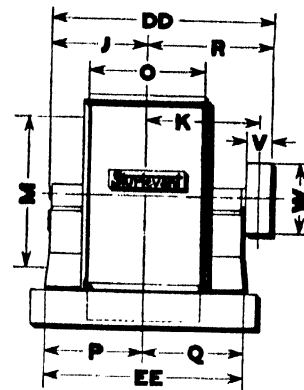
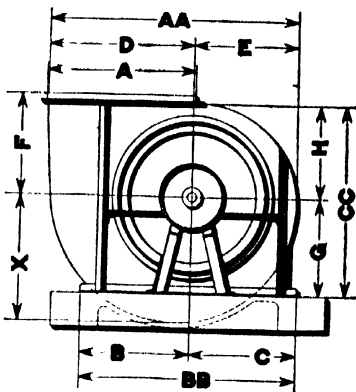
7/8 Housing

Up Blast Discharge

Overhung Pulley



| Size | A                   | B                   | C                   | D                   | E                   | F                   | G                   | H                   | J                   | K                   | M                    | O                   | P                   | R                   | V                   | W                   | X                   | AA                   | BB                   | CC                   | DD                   | Extreme Wheel Diameter | Shaft Diameter | Anchor Bolts |
|------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|----------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|----------------------|----------------------|----------------------|----------------------|------------------------|----------------|--------------|
| 10   | 50 <sub>1 1/2</sub> | 36 <sub>1 1/2</sub> | 28 <sub>1 1/2</sub> | 19 <sub>1 1/2</sub> | 31 <sub>1 1/2</sub> | 32 <sub>1 1/2</sub> | 32 <sub>1 1/2</sub> | 30 <sub>1 1/2</sub> | 30 <sub>1 1/2</sub> | 32 <sub>1 1/2</sub> | 51 <sub>1 1/2</sub>  | 38 <sub>1 1/2</sub> | 45 <sub>1 1/2</sub> | 37 <sub>1 1/2</sub> | 10 <sub>1 1/2</sub> | 20 <sub>1 1/2</sub> | 40 <sub>1 1/2</sub> | 83 <sub>1 1/2</sub>  | 64 <sub>1 1/2</sub>  | 62 <sub>1 1/2</sub>  | 67 <sub>1 1/2</sub>  | 52 <sub>1 1/2</sub>    | 2 1/8          | 7            |
| 11   | 56 <sub>1 1/2</sub> | 40 <sub>1 1/2</sub> | 31 <sub>1 1/2</sub> | 22 <sub>1 1/2</sub> | 35 <sub>1 1/2</sub> | 36 <sub>1 1/2</sub> | 35 <sub>1 1/2</sub> | 33 <sub>1 1/2</sub> | 33 <sub>1 1/2</sub> | 35 <sub>1 1/2</sub> | 61 <sub>1 1/2</sub>  | 43 <sub>1 1/2</sub> | 50 <sub>1 1/2</sub> | 41 <sub>1 1/2</sub> | 12 <sub>1 1/2</sub> | 22 <sub>1 1/2</sub> | 45 <sub>1 1/2</sub> | 94 <sub>1 1/2</sub>  | 71 <sub>1 1/2</sub>  | 69 <sub>1 1/2</sub>  | 74 <sub>1 1/2</sub>  | 58 <sub>1 1/2</sub>    | 2 1/8          | 7            |
| 12   | 63 <sub>1 1/2</sub> | 45 <sub>1 1/2</sub> | 36 <sub>1 1/2</sub> | 25 <sub>1 1/2</sub> | 40 <sub>1 1/2</sub> | 41 <sub>1 1/2</sub> | 39 <sub>1 1/2</sub> | 37 <sub>1 1/2</sub> | 37 <sub>1 1/2</sub> | 39 <sub>1 1/2</sub> | 68 <sub>1 1/2</sub>  | 48 <sub>1 1/2</sub> | 56 <sub>1 1/2</sub> | 45 <sub>1 1/2</sub> | 12 <sub>1 1/2</sub> | 24 <sub>1 1/2</sub> | 50 <sub>1 1/2</sub> | 104 <sub>1 1/2</sub> | 81 <sub>1 1/2</sub>  | 77 <sub>1 1/2</sub>  | 82 <sub>1 1/2</sub>  | 65 <sub>1 1/2</sub>    | 3 1/8          | 7            |
| 13   | 69 <sub>1 1/2</sub> | 49 <sub>1 1/2</sub> | 39 <sub>1 1/2</sub> | 28 <sub>1 1/2</sub> | 44 <sub>1 1/2</sub> | 45 <sub>1 1/2</sub> | 43 <sub>1 1/2</sub> | 41 <sub>1 1/2</sub> | 41 <sub>1 1/2</sub> | 43 <sub>1 1/2</sub> | 74 <sub>1 1/2</sub>  | 53 <sub>1 1/2</sub> | 61 <sub>1 1/2</sub> | 50 <sub>1 1/2</sub> | 13 <sub>1 1/2</sub> | 28 <sub>1 1/2</sub> | 55 <sub>1 1/2</sub> | 115 <sub>1 1/2</sub> | 89 <sub>1 1/2</sub>  | 84 <sub>1 1/2</sub>  | 91 <sub>1 1/2</sub>  | 72 <sub>1 1/2</sub>    | 3 1/8          | 7            |
| 14   | 75 <sub>1 1/2</sub> | 55 <sub>1 1/2</sub> | 50 <sub>1 1/2</sub> | 31 <sub>1 1/2</sub> | 51 <sub>1 1/2</sub> | 52 <sub>1 1/2</sub> | 50 <sub>1 1/2</sub> | 47 <sub>1 1/2</sub> | 45 <sub>1 1/2</sub> | 46 <sub>1 1/2</sub> | 81 <sub>1 1/2</sub>  | 47 <sub>1 1/2</sub> | 49 <sub>1 1/2</sub> | 88 <sub>1 1/2</sub> | 13 <sub>1 1/2</sub> | 32 <sub>1 1/2</sub> | 60 <sub>1 1/2</sub> | 125 <sub>1 1/2</sub> | 105 <sub>1 1/2</sub> | 92 <sub>1 1/2</sub>  | 98 <sub>1 1/2</sub>  | 78 <sub>1 1/2</sub>    | 4 1/8          | 7            |
| 15   | 82 <sub>1 1/2</sub> | 59 <sub>1 1/2</sub> | 53 <sub>1 1/2</sub> | 34 <sub>1 1/2</sub> | 54 <sub>1 1/2</sub> | 55 <sub>1 1/2</sub> | 51 <sub>1 1/2</sub> | 49 <sub>1 1/2</sub> | 49 <sub>1 1/2</sub> | 51 <sub>1 1/2</sub> | 88 <sub>1 1/2</sub>  | 62 <sub>1 1/2</sub> | 72 <sub>1 1/2</sub> | 56 <sub>1 1/2</sub> | 14 <sub>1 1/2</sub> | 36 <sub>1 1/2</sub> | 66 <sub>1 1/2</sub> | 136 <sub>1 1/2</sub> | 113 <sub>1 1/2</sub> | 99 <sub>1 1/2</sub>  | 104 <sub>1 1/2</sub> | 85 <sub>1 1/2</sub>    | 4 1/8          | 7            |
| 16   | 88 <sub>1 1/2</sub> | 64 <sub>1 1/2</sub> | 58 <sub>1 1/2</sub> | 37 <sub>1 1/2</sub> | 59 <sub>1 1/2</sub> | 60 <sub>1 1/2</sub> | 56 <sub>1 1/2</sub> | 54 <sub>1 1/2</sub> | 52 <sub>1 1/2</sub> | 51 <sub>1 1/2</sub> | 95 <sub>1 1/2</sub>  | 67 <sub>1 1/2</sub> | 78 <sub>1 1/2</sub> | 60 <sub>1 1/2</sub> | 14 <sub>1 1/2</sub> | 42 <sub>1 1/2</sub> | 71 <sub>1 1/2</sub> | 146 <sub>1 1/2</sub> | 122 <sub>1 1/2</sub> | 107 <sub>1 1/2</sub> | 112 <sub>1 1/2</sub> | 91 <sub>1 1/2</sub>    | 5              | 1            |
| 17   | 94 <sub>1 1/2</sub> | 68 <sub>1 1/2</sub> | 62 <sub>1 1/2</sub> | 40 <sub>1 1/2</sub> | 64 <sub>1 1/2</sub> | 65 <sub>1 1/2</sub> | 58 <sub>1 1/2</sub> | 56 <sub>1 1/2</sub> | 53 <sub>1 1/2</sub> | 55 <sub>1 1/2</sub> | 101 <sub>1 1/2</sub> | 72 <sub>1 1/2</sub> | 83 <sub>1 1/2</sub> | 63 <sub>1 1/2</sub> | 14 <sub>1 1/2</sub> | 48 <sub>1 1/2</sub> | 76 <sub>1 1/2</sub> | 156 <sub>1 1/2</sub> | 130 <sub>1 1/2</sub> | 114 <sub>1 1/2</sub> | 116 <sub>1 1/2</sub> | 98 <sub>1 1/2</sub>    | 5              | 1            |



| Size | A   | B   | C  | D   | E   | F  | G  | H  | J  | M   | O   | P  | Q  | X   | AA  | BB  | CC  | EE  | Extreme Wheel Diameter | Shaft Dia. | Anchor Bolts |
|------|-----|-----|----|-----|-----|----|----|----|----|-----|-----|----|----|-----|-----|-----|-----|-----|------------------------|------------|--------------|
| 8    | 100 | 72  | 66 | 98  | 69  | 63 | 62 | 60 | 65 | 108 | 76  | 65 | 65 | 81  | 167 | 138 | 122 | 130 | 104                    | 5          | 1            |
| 10   | 113 | 81  | 73 | 110 | 77  | 72 | 68 | 67 | 70 | 122 | 86  | 71 | 71 | 91  | 188 | 154 | 136 | 142 | 118                    | 6          | 1            |
| 12   | 125 | 90  | 81 | 122 | 86  | 79 | 75 | 75 | 75 | 135 | 96  | 77 | 77 | 101 | 209 | 171 | 150 | 154 | 131                    | 6          | 1            |
| 14   | 138 | 98  | 88 | 134 | 95  | 87 | 81 | 82 | 79 | 149 | 105 | 82 | 82 | 111 | 229 | 187 | 164 | 165 | 144                    | 6          | 1            |
| 16   | 150 | 108 | 96 | 147 | 103 | 94 | 88 | 90 | 84 | 162 | 115 | 88 | 88 | 121 | 250 | 204 | 178 | 176 | 157                    | 6          | 1            |

Double Inlet

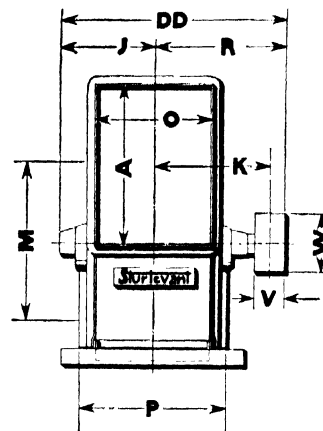
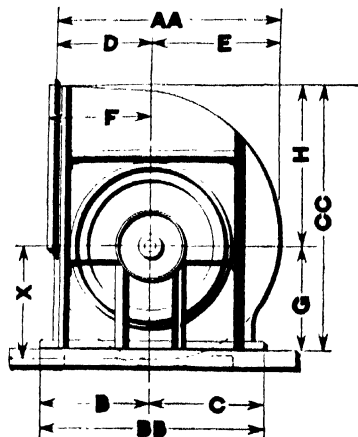
## Multivane Fan—Design 3

Single Width

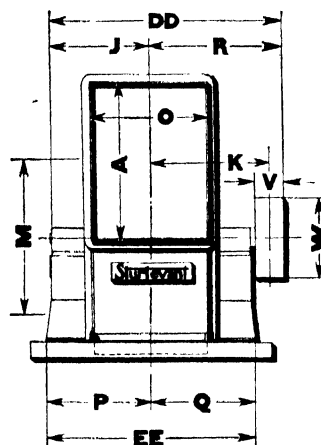
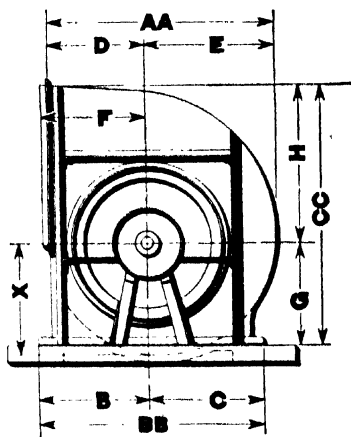
 $\frac{7}{8}$  Housing

Top Horizontal Discharge

Overhung Pulley



| Size | A  | B  | C  | D  | E  | F  | G  | H  | J  | K  | M   | O  | P  | R  | V   | W  | X  | AA  | BB  | CC  | DD  | Extreme Wheel Diameter | Shaft Diameter | Anchor Bolts |
|------|----|----|----|----|----|----|----|----|----|----|-----|----|----|----|-----|----|----|-----|-----|-----|-----|------------------------|----------------|--------------|
| 10   | 50 | 25 | 34 | 30 | 40 | 32 | 32 | 49 | 30 | 32 | 54  | 38 | 45 | 37 | 101 | 20 | 34 | 70  | 59  | 81  | 67  | 52                     | 2 1/8          | 1            |
| 11   | 56 | 28 | 38 | 33 | 45 | 36 | 35 | 55 | 33 | 35 | 61  | 43 | 50 | 41 | 12  | 22 | 39 | 79  | 66  | 91  | 74  | 58                     | 2 1/8          | 1            |
| 12   | 63 | 32 | 42 | 37 | 50 | 40 | 39 | 61 | 37 | 39 | 68  | 48 | 56 | 45 | 12  | 21 | 43 | 88  | 75  | 100 | 82  | 65                     | 3 1/8          | 1            |
| 13   | 69 | 35 | 46 | 41 | 55 | 43 | 43 | 67 | 41 | 43 | 74  | 53 | 61 | 50 | 13  | 28 | 47 | 97  | 81  | 110 | 91  | 72                     | 3 1/8          | 1            |
| 14   | 75 | 50 | 50 | 45 | 60 | 47 | 47 | 73 | 45 | 46 | 81  | 57 | 67 | 53 | 13  | 32 | 51 | 106 | 100 | 120 | 98  | 78                     | 4 1/2          | 1            |
| 15   | 82 | 53 | 53 | 48 | 66 | 52 | 50 | 79 | 49 | 49 | 88  | 62 | 72 | 56 | 14  | 36 | 56 | 114 | 107 | 130 | 104 | 85                     | 4 1/2          | 1            |
| 16   | 88 | 58 | 58 | 52 | 71 | 56 | 54 | 85 | 51 | 53 | 95  | 67 | 78 | 60 | 14  | 42 | 60 | 123 | 117 | 140 | 112 | 91                     | 5              | 1            |
| 17   | 91 | 62 | 62 | 56 | 76 | 59 | 58 | 92 | 53 | 55 | 101 | 72 | 83 | 63 | 14  | 48 | 61 | 132 | 124 | 150 | 116 | 98                     | 5              | 1            |



| Size | A   | B  | C  | D  | E   | F  | G  | H   | J  | M   | O   | P  | Q  | X   | AA  | BB  | CC  | EE  | Extreme Wheel Diameter | Shaft Dia. | Anchor Bolts |
|------|-----|----|----|----|-----|----|----|-----|----|-----|-----|----|----|-----|-----|-----|-----|-----|------------------------|------------|--------------|
| 18   | 100 | 66 | 66 | 60 | 81  | 63 | 62 | 98  | 65 | 108 | 76  | 65 | 65 | 69  | 111 | 132 | 160 | 130 | 104                    | 5 1/2      | 1 1/2        |
| 20   | 113 | 73 | 73 | 67 | 91  | 72 | 68 | 110 | 70 | 122 | 86  | 71 | 71 | 77  | 158 | 147 | 178 | 142 | 118                    | 6          | 1 1/2        |
| 22   | 125 | 81 | 81 | 75 | 101 | 79 | 75 | 122 | 75 | 135 | 96  | 77 | 77 | 86  | 176 | 162 | 197 | 154 | 131                    | 6          | 1 1/2        |
| 24   | 138 | 88 | 88 | 82 | 111 | 87 | 81 | 134 | 79 | 149 | 105 | 82 | 82 | 95  | 194 | 177 | 216 | 165 | 144                    | 6          | 1 1/2        |
| 26   | 150 | 96 | 96 | 90 | 121 | 94 | 88 | 147 | 84 | 162 | 115 | 88 | 88 | 103 | 211 | 192 | 235 | 176 | 157                    | 6          | 1 1/2        |

Double Inlet

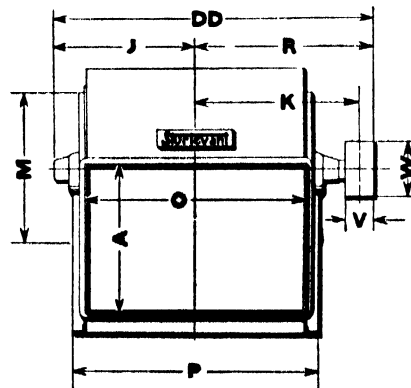
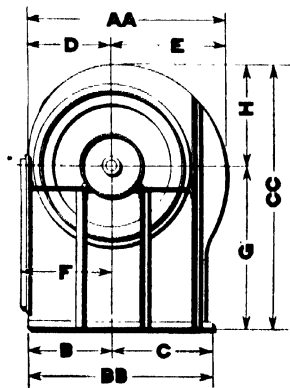
**Multivane Fan—Design 3**

Double Width

Full Housing

Bottom Horizontal Discharge

Overhung Pulley



| Fan Size        | A                | B                | C                | D                | E                | F                | G                | H                | J                | K                 | M                 | O                 | P                 | R                 | V                | W               | AA                | BB                | CC                | DD                | Extreme Wheel Diameter | Shaft Diameter  | Anchor Pedestals | Bolts Fan       |
|-----------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------------------|-----------------|-------------------|-------------------|-------------------|-------------------|------------------------|-----------------|------------------|-----------------|
| 2               | 13               | 7 $\frac{1}{2}$  | 9 $\frac{1}{2}$  | 7 $\frac{1}{2}$  | 10 $\frac{1}{2}$ | 8 $\frac{1}{2}$  | 14 $\frac{1}{2}$ | 8 $\frac{1}{2}$  | 14 $\frac{1}{2}$ | 15 $\frac{1}{2}$  | 13 $\frac{1}{2}$  | 19 $\frac{1}{2}$  | 22 $\frac{1}{2}$  | 17 $\frac{1}{2}$  | 3 $\frac{1}{2}$  | 7               | 17 $\frac{1}{2}$  | 17 $\frac{1}{2}$  | 23 $\frac{1}{2}$  | 32 $\frac{1}{2}$  | 13 $\frac{1}{2}$       | 1 $\frac{1}{2}$ |                  | 1 $\frac{1}{2}$ |
| 3               | 16 $\frac{1}{2}$ | 9 $\frac{1}{2}$  | 11 $\frac{1}{2}$ | 9 $\frac{1}{2}$  | 12 $\frac{1}{2}$ | 10 $\frac{1}{2}$ | 17 $\frac{1}{2}$ | 10 $\frac{1}{2}$ | 17 $\frac{1}{2}$ | 18 $\frac{1}{2}$  | 17 $\frac{1}{2}$  | 24 $\frac{1}{2}$  | 28                | 20 $\frac{1}{2}$  | 4                | 8 $\frac{1}{2}$ | 22 $\frac{1}{2}$  | 21                | 28 $\frac{1}{2}$  | 37 $\frac{1}{2}$  | 16 $\frac{1}{2}$       | 1 $\frac{1}{2}$ |                  | 1 $\frac{1}{2}$ |
| 4               | 19 $\frac{1}{2}$ | 11 $\frac{1}{2}$ | 13 $\frac{1}{2}$ | 11 $\frac{1}{2}$ | 15 $\frac{1}{2}$ | 12 $\frac{1}{2}$ | 21 $\frac{1}{2}$ | 13               | 20               | 22 $\frac{1}{2}$  | 20 $\frac{1}{2}$  | 29 $\frac{1}{2}$  | 32 $\frac{1}{2}$  | 24 $\frac{1}{2}$  | 5                | 11              | 26 $\frac{1}{2}$  | 24 $\frac{1}{2}$  | 34                | 44 $\frac{1}{2}$  | 19 $\frac{1}{2}$       | 1 $\frac{1}{2}$ |                  | 1 $\frac{1}{2}$ |
| 5               | 22 $\frac{1}{2}$ | 13 $\frac{1}{2}$ | 15 $\frac{1}{2}$ | 13 $\frac{1}{2}$ | 17 $\frac{1}{2}$ | 14 $\frac{1}{2}$ | 24 $\frac{1}{2}$ | 15 $\frac{1}{2}$ | 22 $\frac{1}{2}$ | 25 $\frac{1}{2}$  | 24                | 33 $\frac{1}{2}$  | 38 $\frac{1}{2}$  | 28 $\frac{1}{2}$  | 6 $\frac{1}{2}$  | 12              | 31 $\frac{1}{2}$  | 28 $\frac{1}{2}$  | 39 $\frac{1}{2}$  | 51 $\frac{1}{2}$  | 23                     | 1 $\frac{1}{2}$ |                  | 1 $\frac{1}{2}$ |
| 6               | 25 $\frac{1}{2}$ | 15 $\frac{1}{2}$ | 17 $\frac{1}{2}$ | 15 $\frac{1}{2}$ | 20 $\frac{1}{2}$ | 17 $\frac{1}{2}$ | 27 $\frac{1}{2}$ | 17 $\frac{1}{2}$ | 25 $\frac{1}{2}$ | 28 $\frac{1}{2}$  | 27 $\frac{1}{2}$  | 38 $\frac{1}{2}$  | 43 $\frac{1}{2}$  | 31 $\frac{1}{2}$  | 6 $\frac{1}{2}$  | 14              | 35 $\frac{1}{2}$  | 32 $\frac{1}{2}$  | 44 $\frac{1}{2}$  | 57 $\frac{1}{2}$  | 26 $\frac{1}{2}$       | 1 $\frac{1}{2}$ |                  | 1 $\frac{1}{2}$ |
| 6 $\frac{1}{2}$ | 28 $\frac{1}{2}$ | 17 $\frac{1}{2}$ | 19 $\frac{1}{2}$ | 17 $\frac{1}{2}$ | 22 $\frac{1}{2}$ | 19 $\frac{1}{2}$ | 30 $\frac{1}{2}$ | 19 $\frac{1}{2}$ | 29               | 31 $\frac{1}{2}$  | 30 $\frac{1}{2}$  | 43 $\frac{1}{2}$  | 48                | 35 $\frac{1}{2}$  | 7                | 16              | 39 $\frac{1}{2}$  | 36 $\frac{1}{2}$  | 49 $\frac{1}{2}$  | 64 $\frac{1}{2}$  | 29 $\frac{1}{2}$       | 2 $\frac{1}{2}$ |                  | 1 $\frac{1}{2}$ |
| 7               | 31 $\frac{1}{2}$ | 18 $\frac{1}{2}$ | 21 $\frac{1}{2}$ | 18 $\frac{1}{2}$ | 25 $\frac{1}{2}$ | 20 $\frac{1}{2}$ | 33 $\frac{1}{2}$ | 21 $\frac{1}{2}$ | 31 $\frac{1}{2}$ | 34 $\frac{1}{2}$  | 34 $\frac{1}{2}$  | 48 $\frac{1}{2}$  | 52 $\frac{1}{2}$  | 38 $\frac{1}{2}$  | 8                | 18              | 44 $\frac{1}{2}$  | 40 $\frac{1}{2}$  | 55 $\frac{1}{2}$  | 69 $\frac{1}{2}$  | 32 $\frac{1}{2}$       | 2 $\frac{1}{2}$ |                  | 1 $\frac{1}{2}$ |
| 8               | 38 $\frac{1}{2}$ | 22 $\frac{1}{2}$ | 26 $\frac{1}{2}$ | 22 $\frac{1}{2}$ | 30 $\frac{1}{2}$ | 24 $\frac{1}{2}$ | 39 $\frac{1}{2}$ | 26               | 36 $\frac{1}{2}$ | 40 $\frac{1}{2}$  | 40 $\frac{1}{2}$  | 57 $\frac{1}{2}$  | 62 $\frac{1}{2}$  | 45 $\frac{1}{2}$  | 10               | 22              | 53 $\frac{1}{2}$  | 48 $\frac{1}{2}$  | 65 $\frac{1}{2}$  | 92 $\frac{1}{2}$  | 39 $\frac{1}{2}$       | 2 $\frac{1}{2}$ |                  | 1 $\frac{1}{2}$ |
| 9               | 44 $\frac{1}{2}$ | 26 $\frac{1}{2}$ | 30 $\frac{1}{2}$ | 26 $\frac{1}{2}$ | 35 $\frac{1}{2}$ | 28 $\frac{1}{2}$ | 46 $\frac{1}{2}$ | 30 $\frac{1}{2}$ | 42 $\frac{1}{2}$ | 47 $\frac{1}{2}$  | 47 $\frac{1}{2}$  | 67 $\frac{1}{2}$  | 73 $\frac{1}{2}$  | 53 $\frac{1}{2}$  | 12 $\frac{1}{2}$ | 24              | 62                | 57 $\frac{1}{2}$  | 76 $\frac{1}{2}$  | 95 $\frac{1}{2}$  | 45 $\frac{1}{2}$       | 2 $\frac{1}{2}$ |                  | 1 $\frac{1}{2}$ |
| 10              | 50 $\frac{1}{2}$ | 30 $\frac{1}{2}$ | 34 $\frac{1}{2}$ | 30 $\frac{1}{2}$ | 40 $\frac{1}{2}$ | 32 $\frac{1}{2}$ | 52 $\frac{1}{2}$ | 34 $\frac{1}{2}$ | 47 $\frac{1}{2}$ | 52 $\frac{1}{2}$  | 54 $\frac{1}{2}$  | 76 $\frac{1}{2}$  | 83 $\frac{1}{2}$  | 59 $\frac{1}{2}$  | 13 $\frac{1}{2}$ | 28              | 70 $\frac{1}{2}$  | 64 $\frac{1}{2}$  | 86 $\frac{1}{2}$  | 106 $\frac{1}{2}$ | 52 $\frac{1}{2}$       | 2 $\frac{1}{2}$ |                  | 1 $\frac{1}{2}$ |
| 11              | 56 $\frac{1}{2}$ | 33 $\frac{1}{2}$ | 38 $\frac{1}{2}$ | 33 $\frac{1}{2}$ | 45 $\frac{1}{2}$ | 36 $\frac{1}{2}$ | 58 $\frac{1}{2}$ | 39               | 53 $\frac{1}{2}$ | 58 $\frac{1}{2}$  | 61 $\frac{1}{2}$  | 86 $\frac{1}{2}$  | 92 $\frac{1}{2}$  | 65 $\frac{1}{2}$  | 14               | 32              | 79 $\frac{1}{2}$  | 71 $\frac{1}{2}$  | 97 $\frac{1}{2}$  | 119 $\frac{1}{2}$ | 58 $\frac{1}{2}$       | 3 $\frac{1}{2}$ |                  | 1 $\frac{1}{2}$ |
| 12              | 63 $\frac{1}{2}$ | 37 $\frac{1}{2}$ | 42 $\frac{1}{2}$ | 37 $\frac{1}{2}$ | 50 $\frac{1}{2}$ | 40 $\frac{1}{2}$ | 64 $\frac{1}{2}$ | 43 $\frac{1}{2}$ | 59 $\frac{1}{2}$ | 65 $\frac{1}{2}$  | 68                | 95 $\frac{1}{2}$  | 104 $\frac{1}{2}$ | 73 $\frac{1}{2}$  | 15 $\frac{1}{2}$ | 36              | 88 $\frac{1}{2}$  | 80 $\frac{1}{2}$  | 108               | 133 $\frac{1}{2}$ | 65 $\frac{1}{2}$       | 3 $\frac{1}{2}$ |                  | 1 $\frac{1}{2}$ |
| 13              | 69 $\frac{1}{2}$ | 41 $\frac{1}{2}$ | 46 $\frac{1}{2}$ | 41 $\frac{1}{2}$ | 55 $\frac{1}{2}$ | 43 $\frac{1}{2}$ | 71 $\frac{1}{2}$ | 47 $\frac{1}{2}$ | 64 $\frac{1}{2}$ | 70 $\frac{1}{2}$  | 74 $\frac{1}{2}$  | 105 $\frac{1}{2}$ | 113 $\frac{1}{2}$ | 78 $\frac{1}{2}$  | 15 $\frac{1}{2}$ | 40              | 97 $\frac{1}{2}$  | 87 $\frac{1}{2}$  | 118 $\frac{1}{2}$ | 142 $\frac{1}{2}$ | 72                     | 3 $\frac{1}{2}$ |                  | 1 $\frac{1}{2}$ |
| 14              | 75 $\frac{1}{2}$ | 45 $\frac{1}{2}$ | 50 $\frac{1}{2}$ | 45 $\frac{1}{2}$ | 60 $\frac{1}{2}$ | 47 $\frac{1}{2}$ | 77 $\frac{1}{2}$ | 51 $\frac{1}{2}$ | 70 $\frac{1}{2}$ | 76 $\frac{1}{2}$  | 81 $\frac{1}{2}$  | 114 $\frac{1}{2}$ | 124 $\frac{1}{2}$ | 84 $\frac{1}{2}$  | 16               | 42              | 106               | 95 $\frac{1}{2}$  | 129 $\frac{1}{2}$ | 155               | 78 $\frac{1}{2}$       | 4 $\frac{1}{2}$ |                  | 1 $\frac{1}{2}$ |
| 15              | 82 $\frac{1}{2}$ | 48 $\frac{1}{2}$ | 53 $\frac{1}{2}$ | 48 $\frac{1}{2}$ | 66 $\frac{1}{2}$ | 52 $\frac{1}{2}$ | 83 $\frac{1}{2}$ | 56 $\frac{1}{2}$ | 76 $\frac{1}{2}$ | 82 $\frac{1}{2}$  | 88 $\frac{1}{2}$  | 124 $\frac{1}{2}$ | 133 $\frac{1}{2}$ | 90 $\frac{1}{2}$  | 16               | 46              | 114 $\frac{1}{2}$ | 102 $\frac{1}{2}$ | 139 $\frac{1}{2}$ | 167 $\frac{1}{2}$ | 85 $\frac{1}{2}$       | 5               |                  | 1 $\frac{1}{2}$ |
| *16             | 88 $\frac{1}{2}$ | 52 $\frac{1}{2}$ | 58 $\frac{1}{2}$ | 52 $\frac{1}{2}$ | 71 $\frac{1}{2}$ | 56 $\frac{1}{2}$ | 89 $\frac{1}{2}$ | 60 $\frac{1}{2}$ | 90 $\frac{1}{2}$ | 99 $\frac{1}{2}$  | 95                | 133 $\frac{1}{2}$ | 190 $\frac{1}{2}$ | 107 $\frac{1}{2}$ | 16 $\frac{1}{2}$ | 48              | 123 $\frac{1}{2}$ | 111 $\frac{1}{2}$ | 150 $\frac{1}{2}$ | 197 $\frac{1}{2}$ | 91 $\frac{1}{2}$       | 6               | 1 $\frac{1}{2}$  | 1               |
| *17             | 94 $\frac{1}{2}$ | 56 $\frac{1}{2}$ | 62 $\frac{1}{2}$ | 56 $\frac{1}{2}$ | 76 $\frac{1}{2}$ | 59 $\frac{1}{2}$ | 96 $\frac{1}{2}$ | 64 $\frac{1}{2}$ | 95               | 105 $\frac{1}{2}$ | 101 $\frac{1}{2}$ | 143 $\frac{1}{2}$ | 200 $\frac{1}{2}$ | 114 $\frac{1}{2}$ | 19               | 52              | 132 $\frac{1}{2}$ | 118 $\frac{1}{2}$ | 160 $\frac{1}{2}$ | 209 $\frac{1}{2}$ | 98 $\frac{1}{2}$       | 6               | 1 $\frac{1}{2}$  | 1               |

\* These sizes differ from others, in that they have independent pedestals.



Double Inlet

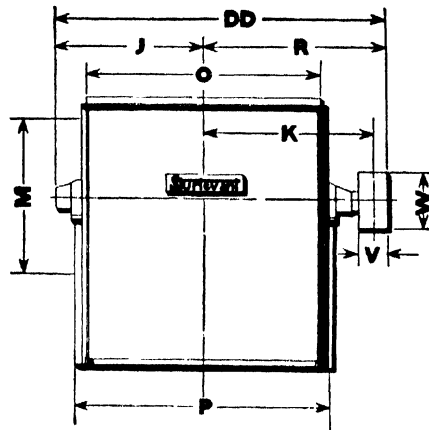
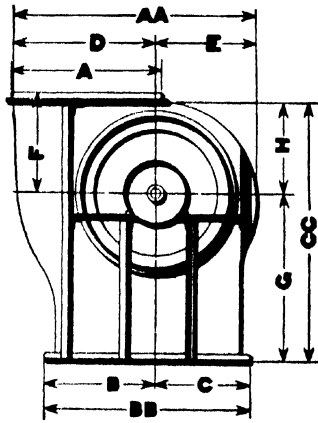
## Multivane Fan—Design 3

Double Width

Full Housing

Up Blast Discharge

Overhung Pulley



| Fan Size | A  | B  | C  | D  | E  | F  | G  | H  | J  | K   | M   | O   | P   | R   | V  | W  | AA  | BB  | CC  | DD  | Extreme Wheel Diameter | Shaft Dia. | Anchor Bolts Pedestal | Anchor Bolts Fan |
|----------|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|----|----|-----|-----|-----|-----|------------------------|------------|-----------------------|------------------|
| 2        | 13 | 10 | 8  | 12 | 8  | 8  | 12 | 7  | 14 | 15  | 13  | 19  | 22  | 17  | 3  | 7  | 21  | 19  | 19  | 32  | 13                     | 1          |                       | 1                |
| 3        | 16 | 13 | 10 | 15 | 10 | 10 | 14 | 9  | 17 | 18  | 17  | 21  | 28  | 20  | 4  | 8  | 26  | 23  | 24  | 37  | 16                     | 1          |                       | 1                |
| 4        | 19 | 15 | 12 | 18 | 13 | 12 | 17 | 11 | 20 | 22  | 20  | 29  | 32  | 24  | 5  | 11 | 31  | 27  | 28  | 44  | 19                     | 1          |                       | 1                |
| 5        | 22 | 17 | 14 | 21 | 15 | 14 | 20 | 13 | 22 | 25  | 24  | 33  | 38  | 28  | 6  | 12 | 36  | 31  | 33  | 51  | 23                     | 1          |                       | 1                |
| 6        | 25 | 20 | 15 | 24 | 17 | 17 | 22 | 15 | 25 | 28  | 27  | 38  | 43  | 31  | 6  | 14 | 42  | 35  | 37  | 57  | 26                     | 1          |                       | 1                |
| 6        | 28 | 22 | 17 | 27 | 19 | 19 | 25 | 17 | 29 | 31  | 30  | 43  | 48  | 35  | 7  | 16 | 47  | 39  | 43  | 64  | 29                     | 2          |                       | 1                |
| 7        | 31 | 24 | 18 | 30 | 21 | 20 | 28 | 18 | 31 | 34  | 34  | 48  | 52  | 38  | 8  | 18 | 52  | 43  | 46  | 69  | 32                     | 2          |                       | 1                |
| 8        | 38 | 29 | 21 | 36 | 26 | 24 | 33 | 22 | 36 | 40  | 40  | 57  | 62  | 45  | 10 | 22 | 62  | 50  | 55  | 92  | 39                     | 2          |                       | 1                |
| 9        | 41 | 34 | 25 | 43 | 30 | 28 | 38 | 26 | 42 | 47  | 47  | 67  | 73  | 53  | 12 | 24 | 73  | 60  | 64  | 95  | 45                     | 2          |                       | 1                |
| 10       | 50 | 39 | 28 | 49 | 34 | 32 | 43 | 30 | 47 | 52  | 51  | 76  | 83  | 59  | 13 | 28 | 83  | 67  | 73  | 106 | 52                     | 2          |                       | 1                |
| 11       | 56 | 43 | 31 | 55 | 39 | 36 | 49 | 33 | 53 | 58  | 61  | 86  | 92  | 65  | 14 | 32 | 94  | 75  | 82  | 119 | 58                     | 3          |                       | 1                |
| 12       | 63 | 49 | 36 | 61 | 43 | 40 | 54 | 37 | 59 | 65  | 68  | 95  | 104 | 73  | 15 | 36 | 104 | 85  | 91  | 133 | 65                     | 3          |                       | 1                |
| 13       | 69 | 53 | 39 | 67 | 47 | 43 | 59 | 41 | 64 | 70  | 74  | 105 | 113 | 78  | 15 | 40 | 115 | 93  | 100 | 142 | 72                     | 3          |                       | 1                |
| 14       | 75 | 58 | 50 | 73 | 51 | 47 | 64 | 45 | 70 | 76  | 81  | 114 | 124 | 84  | 16 | 42 | 125 | 108 | 109 | 155 | 78                     | 4          |                       | 1                |
| 15       | 82 | 62 | 53 | 79 | 56 | 52 | 70 | 48 | 76 | 82  | 88  | 121 | 133 | 90  | 16 | 46 | 136 | 115 | 118 | 167 | 85                     | 5          |                       | 1                |
| *16      | 88 | 67 | 58 | 85 | 60 | 56 | 75 | 52 | 90 | 99  | 95  | 133 | 150 | 107 | 16 | 48 | 146 | 125 | 127 | 197 | 91                     | 6          | 1                     | 1                |
| *17      | 94 | 71 | 62 | 92 | 64 | 59 | 80 | 56 | 95 | 105 | 101 | 143 | 200 | 114 | 19 | 52 | 156 | 133 | 136 | 209 | 98                     | 6          | 1                     | 1                |

\*These sizes differ from others, in that they have independent pedestals.

Double Inlet

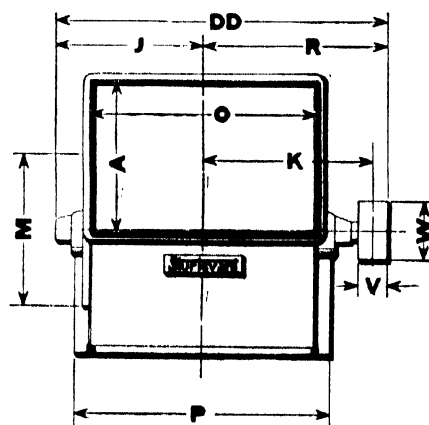
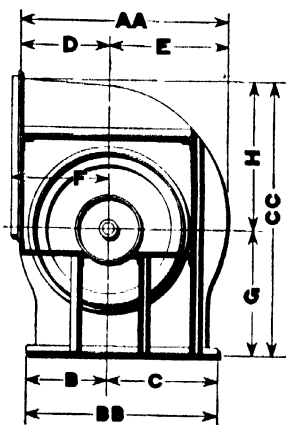
## Multivane Fan—Design 3

Double Width

Full Housing

Top Horizontal Discharge

Overhung Pulley



| Fan Size | A  | B  | C  | D  | E  | F  | G  | H  | J  | K   | M   | O   | P   | R   | V  | W  | AA  | BB  | CC  | DD  | Extreme Wheel Diameter | Shaft Diameter | Anchor Bolts |     |
|----------|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|----|----|-----|-----|-----|-----|------------------------|----------------|--------------|-----|
|          |    |    |    |    |    |    |    |    |    |     |     |     |     |     |    |    |     |     |     |     |                        |                | Pedestal     | Fan |
| 2        | 13 | 7  | 9  | 7  | 10 | 8  | 10 | 12 | 14 | 15  | 13  | 19  | 22  | 17  | 3  | 7  | 17  | 16  | 23  | 32  | 13                     | 1              |              |     |
| 3        | 16 | 8  | 11 | 9  | 12 | 10 | 13 | 15 | 17 | 18  | 17  | 24  | 28  | 20  | 4  | 8  | 22  | 20  | 28  | 37  | 16                     | 1              |              |     |
| 4        | 19 | 10 | 13 | 11 | 15 | 12 | 15 | 18 | 20 | 22  | 20  | 29  | 32  | 24  | 5  | 11 | 26  | 23  | 33  | 44  | 19                     | 1              |              |     |
| 5        | 22 | 11 | 15 | 13 | 17 | 14 | 17 | 21 | 22 | 25  | 24  | 33  | 38  | 28  | 6  | 12 | 31  | 27  | 39  | 51  | 23                     | 1              |              |     |
| 6        | 25 | 13 | 17 | 15 | 20 | 17 | 19 | 24 | 25 | 28  | 27  | 38  | 43  | 31  | 6  | 14 | 35  | 30  | 44  | 57  | 26                     | 1              |              |     |
| 6        | 28 | 14 | 19 | 17 | 22 | 19 | 22 | 27 | 29 | 31  | 30  | 43  | 48  | 35  | 7  | 16 | 39  | 33  | 49  | 64  | 29                     | 2              |              |     |
| 7        | 31 | 15 | 21 | 18 | 25 | 20 | 24 | 30 | 31 | 34  | 34  | 48  | 52  | 38  | 8  | 18 | 44  | 37  | 55  | 69  | 32                     | 2              |              |     |
| 8        | 38 | 18 | 26 | 22 | 30 | 24 | 28 | 36 | 36 | 40  | 40  | 57  | 62  | 45  | 10 | 22 | 53  | 44  | 65  | 92  | 39                     | 2              |              |     |
| 9        | 44 | 22 | 30 | 26 | 35 | 28 | 33 | 43 | 42 | 47  | 47  | 67  | 73  | 53  | 12 | 24 | 62  | 53  | 76  | 95  | 45                     | 2              |              |     |
| 10       | 50 | 25 | 34 | 30 | 40 | 32 | 37 | 49 | 47 | 52  | 54  | 76  | 83  | 59  | 13 | 28 | 70  | 59  | 86  | 106 | 52                     | 2              |              |     |
| 11       | 56 | 28 | 38 | 33 | 45 | 36 | 42 | 55 | 53 | 58  | 61  | 86  | 92  | 65  | 14 | 32 | 79  | 66  | 97  | 119 | 58                     | 3              |              |     |
| 12       | 63 | 32 | 42 | 37 | 50 | 40 | 46 | 61 | 59 | 65  | 68  | 95  | 104 | 73  | 15 | 36 | 88  | 75  | 108 | 133 | 65                     | 3              |              |     |
| 13       | 69 | 35 | 46 | 41 | 55 | 43 | 51 | 67 | 64 | 70  | 74  | 105 | 113 | 78  | 15 | 40 | 97  | 81  | 118 | 142 | 72                     | 3              |              |     |
| 14       | 75 | 50 | 50 | 45 | 60 | 47 | 55 | 73 | 70 | 76  | 81  | 114 | 124 | 84  | 16 | 42 | 106 | 100 | 129 | 155 | 78                     | 4              |              |     |
| 15       | 82 | 53 | 53 | 48 | 66 | 52 | 60 | 79 | 76 | 82  | 88  | 124 | 133 | 90  | 16 | 46 | 114 | 107 | 140 | 167 | 85                     | 5              |              |     |
| *16      | 88 | 58 | 58 | 52 | 77 | 56 | 64 | 85 | 90 | 99  | 95  | 133 | 190 | 107 | 16 | 48 | 123 | 117 | 150 | 197 | 91                     | 6              | 1            |     |
| *17      | 94 | 62 | 62 | 56 | 76 | 59 | 69 | 92 | 95 | 105 | 101 | 143 | 200 | 114 | 19 | 52 | 132 | 124 | 161 | 209 | 98                     | 6              | 1            | 1   |

\*These sizes differ from others in that they have independent pedestals.

Double Inlet

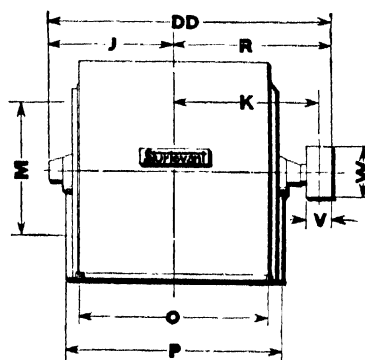
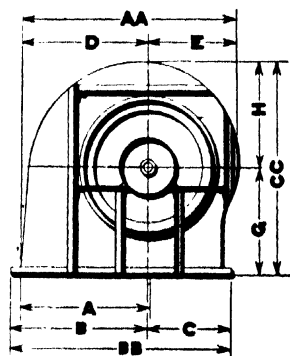
## Multivane Fan—Design 3

Double Width

Full Housing

Down Blast Discharge

Overhung Pulley



| Size | A   | B   | C   | D   | E   | G  | H   | J   | K    | M    | O    | P    | R    | V   | W  | AA   | BB   | CC   | DD   | Extreme Wheel Diameter | Shaft Diameter | Anchor Bolts |     |
|------|-----|-----|-----|-----|-----|----|-----|-----|------|------|------|------|------|-----|----|------|------|------|------|------------------------|----------------|--------------|-----|
|      |     |     |     |     |     |    |     |     |      |      |      |      |      |     |    |      |      |      |      |                        |                | Pedestal     | Fan |
| 2    | 12½ | 13½ | 8½  | 12½ | 8½  | 9  | 10½ | 14½ | 15½  | 13½  | 19   | 22½  | 17½  | 3½  | 7  | 21½  | 22½  | 19½  | 32½  | 13½                    | 1½             |              | ½   |
| 3    | 15½ | 17½ | 10½ | 15½ | 10½ | 11 | 12½ | 17½ | 18½  | 17½  | 23½  | 28   | 20½  | 4   | 8½ | 26½  | 27½  | 23½  | 37½  | 16½                    | 1½             |              | ½   |
| 4    | 18½ | 20½ | 12½ | 18½ | 13  | 13 | 15½ | 20  | 22½  | 20½  | 28½  | 32½  | 24½  | 5   | 11 | 31½  | 32½  | 28½  | 44½  | 19½                    | 1½             |              | ½   |
| 5    | 21½ | 24  | 14  | 21½ | 15½ | 15 | 17½ | 22½ | 25½  | 24   | 33½  | 38½  | 28½  | 6½  | 12 | 36½  | 38   | 32½  | 51½  | 23                     | 1½             |              | ½   |
| 6    | 25  | 27½ | 15½ | 24½ | 17½ | 17 | 23½ | 25½ | 28½  | 27½  | 38   | 43½  | 31½  | 6½  | 14 | 42   | 42½  | 37½  | 57½  | 26½                    | 1½             |              | ½   |
| 6½   | 28½ | 30½ | 17  | 27½ | 19½ | 19 | 22½ | 29  | 31½  | 30½  | 42½  | 48   | 35½  | 7   | 16 | 47½  | 47½  | 41½  | 64½  | 29½                    | 2½             |              | ½   |
| 7    | 31½ | 33½ | 18½ | 30½ | 21½ | 21 | 25½ | 31½ | 34½  | 34½  | 47½  | 52½  | 38½  | 8   | 18 | 52½  | 51½  | 46½  | 69½  | 32½                    | 2½             |              | ½   |
| 8    | 37½ | 39½ | 21½ | 36½ | 26  | 25 | 30½ | 36½ | 40½  | 40½  | 57   | 62½  | 45½  | 10  | 22 | 62½  | 60½  | 55½  | 92½  | 39½                    | 2½             |              | ½   |
| 9    | 43½ | 46½ | 25½ | 43  | 30½ | 29 | 35½ | 42½ | 47   | 47½  | 66½  | 73½  | 53½  | 12½ | 24 | 73½  | 72   | 64½  | 95½  | 45½                    | 2½             |              | ½   |
| 10   | 50  | 52½ | 28½ | 49½ | 34½ | 33 | 40½ | 47½ | 52½  | 54½  | 76   | 83½  | 59½  | 13½ | 28 | 83½  | 81½  | 73½  | 106½ | 52½                    | 2½             |              | ½   |
| 11   | 56½ | 58½ | 31½ | 55½ | 39  | 37 | 45½ | 53½ | 58½  | 61½  | 85½  | 92½  | 65½  | 14  | 32 | 94½  | 90½  | 82½  | 119½ | 58½                    | 3½             |              | ½   |
| 12   | 62½ | 65½ | 36  | 61½ | 43½ | 41 | 50½ | 59½ | 65½  | 68   | 95   | 104½ | 73½  | 15½ | 36 | 104½ | 101½ | 91½  | 133½ | 65½                    | 3½             |              | ½   |
| 13   | 68½ | 72  | 39½ | 67½ | 47½ | 45 | 55½ | 64½ | 70½  | 74½  | 104½ | 113½ | 78½  | 15½ | 40 | 115½ | 111½ | 100½ | 142½ | 72                     | 3½             |              | ½   |
| 14   | 75  | 78½ | 50½ | 73½ | 51½ | 49 | 60½ | 70½ | 76½  | 81½  | 114  | 124½ | 84½  | 16  | 42 | 125½ | 128½ | 109½ | 155  | 78½                    | 4½             |              | ½   |
| 15   | 81½ | 84½ | 53½ | 79½ | 56½ | 53 | 66  | 76½ | 82½  | 88½  | 123½ | 133½ | 90½  | 16  | 46 | 136  | 138½ | 119  | 167½ | 85½                    | 5              |              | ½   |
| *16  | 87½ | 91½ | 58½ | 85½ | 60½ | 57 | 71  | 90½ | 99½  | 95   | 133  | 190½ | 107½ | 16½ | 48 | 146½ | 150½ | 128  | 197½ | 91½                    | 6              | 1½           |     |
| *17  | 93½ | 98  | 62½ | 92  | 64½ | 61 | 76½ | 95  | 105½ | 101½ | 142½ | 200½ | 114½ | 19  | 52 | 156½ | 160½ | 137½ | 209½ | 98½                    | 6              | 1½           | 1   |

\*These sizes differ from others, in that they have independent pedestals.

Double Inlet

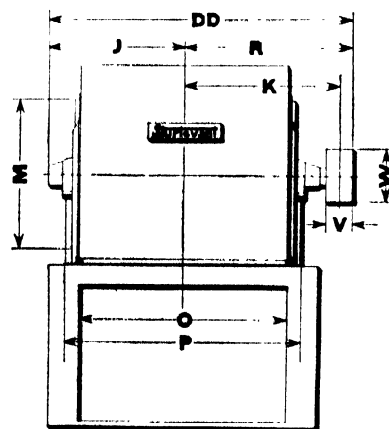
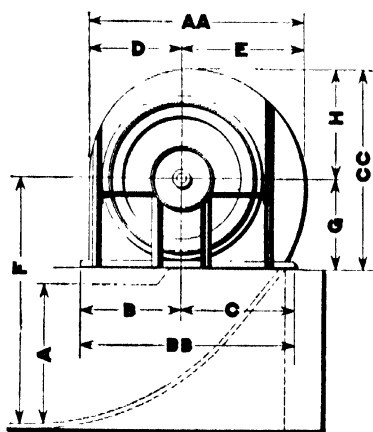
## Multivane Fan—Design 3

Double Width

 $\frac{7}{8}$  Housing

Bottom Horizontal Discharge

Overhung Pulley



| Size | A                | B                | C                | D                | E                | F   | G                | H                | J                | K                | M                | O                 | P                 | R                | V                | W  | AA                | BB                | CC                | DD                | Extreme Wheel Diameter | Shaft Diameter  | Anchor Bolts    |
|------|------------------|------------------|------------------|------------------|------------------|-----|------------------|------------------|------------------|------------------|------------------|-------------------|-------------------|------------------|------------------|----|-------------------|-------------------|-------------------|-------------------|------------------------|-----------------|-----------------|
| 10   | 50               | 35 $\frac{1}{2}$ | 39 $\frac{1}{2}$ | 32 $\frac{1}{2}$ | 43 $\frac{1}{2}$ | 86  | 32               | 37 $\frac{1}{2}$ | 47 $\frac{1}{2}$ | 52 $\frac{1}{2}$ | 54 $\frac{1}{2}$ | 76                | 83 $\frac{1}{2}$  | 59 $\frac{1}{2}$ | 13 $\frac{1}{2}$ | 28 | 76 $\frac{1}{2}$  | 75 $\frac{1}{2}$  | 69 $\frac{1}{2}$  | 106 $\frac{1}{2}$ | 52 $\frac{1}{2}$       | 2 $\frac{1}{2}$ | 7 $\frac{1}{2}$ |
| 11   | 56 $\frac{1}{2}$ | 39 $\frac{1}{2}$ | 41 $\frac{1}{2}$ | 36 $\frac{1}{2}$ | 49 $\frac{1}{2}$ | 96  | 35 $\frac{1}{2}$ | 42 $\frac{1}{2}$ | 53 $\frac{1}{2}$ | 58 $\frac{1}{2}$ | 61 $\frac{1}{2}$ | 85 $\frac{1}{2}$  | 92 $\frac{1}{2}$  | 65 $\frac{1}{2}$ | 14               | 32 | 85 $\frac{1}{2}$  | 84 $\frac{1}{2}$  | 78 $\frac{1}{2}$  | 119 $\frac{1}{2}$ | 58 $\frac{1}{2}$       | 3 $\frac{1}{2}$ | 7 $\frac{1}{2}$ |
| 12   | 62 $\frac{1}{2}$ | 44 $\frac{1}{2}$ | 49 $\frac{1}{2}$ | 40 $\frac{1}{2}$ | 54 $\frac{1}{2}$ | 106 | 39 $\frac{1}{2}$ | 47               | 59 $\frac{1}{2}$ | 65 $\frac{1}{2}$ | 68               | 95                | 104 $\frac{1}{2}$ | 73 $\frac{1}{2}$ | 15 $\frac{1}{2}$ | 36 | 95 $\frac{1}{2}$  | 94 $\frac{1}{2}$  | 86 $\frac{1}{2}$  | 133 $\frac{1}{2}$ | 65 $\frac{1}{2}$       | 3 $\frac{1}{2}$ | 7 $\frac{1}{2}$ |
| 13   | 68 $\frac{1}{2}$ | 49               | 54 $\frac{1}{2}$ | 44 $\frac{1}{2}$ | 60 $\frac{1}{2}$ | 116 | 43 $\frac{1}{2}$ | 51 $\frac{1}{2}$ | 64 $\frac{1}{2}$ | 70 $\frac{1}{2}$ | 74 $\frac{1}{2}$ | 104 $\frac{1}{2}$ | 113 $\frac{1}{2}$ | 78 $\frac{1}{2}$ | 15 $\frac{1}{2}$ | 40 | 104 $\frac{1}{2}$ | 103 $\frac{1}{2}$ | 95                | 142 $\frac{1}{2}$ | 72                     | 3 $\frac{1}{2}$ | 7 $\frac{1}{2}$ |
| 14   | 75               | 53 $\frac{1}{2}$ | 60               | 48 $\frac{1}{2}$ | 65 $\frac{1}{2}$ | 126 | 47               | 56 $\frac{1}{2}$ | 70 $\frac{1}{2}$ | 76 $\frac{1}{2}$ | 81 $\frac{1}{2}$ | 114               | 124 $\frac{1}{2}$ | 84 $\frac{1}{2}$ | 16               | 42 | 114 $\frac{1}{2}$ | 113 $\frac{1}{2}$ | 103 $\frac{1}{2}$ | 155               | 78 $\frac{1}{2}$       | 4 $\frac{1}{2}$ | 7 $\frac{1}{2}$ |
| 15   | 81 $\frac{1}{2}$ | 57 $\frac{1}{2}$ | 64 $\frac{1}{2}$ | 52 $\frac{1}{2}$ | 71 $\frac{1}{2}$ | 136 | 50 $\frac{1}{2}$ | 61 $\frac{1}{2}$ | 76 $\frac{1}{2}$ | 82 $\frac{1}{2}$ | 88 $\frac{1}{2}$ | 123 $\frac{1}{2}$ | 133 $\frac{1}{2}$ | 90 $\frac{1}{2}$ | 16               | 46 | 123 $\frac{1}{2}$ | 122 $\frac{1}{2}$ | 111 $\frac{1}{2}$ | 167 $\frac{1}{2}$ | 85 $\frac{1}{2}$       | 5               | 7 $\frac{1}{2}$ |

Double Inlet

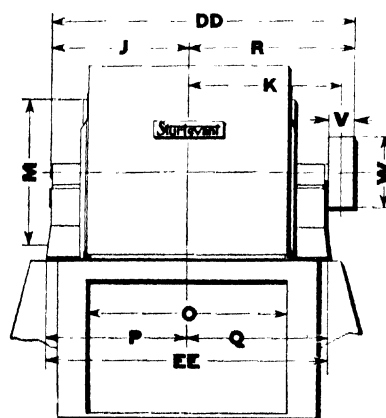
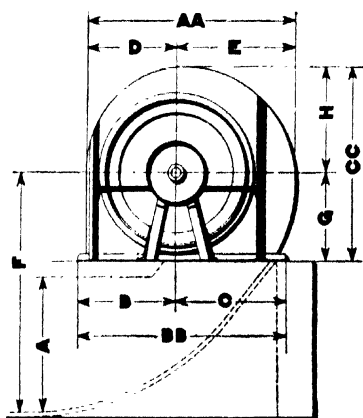
## Multivane Fan—Design 3

Double Width

 $\frac{7}{8}$  Housing

(Ind. Ped's) Bottom Horizontal Discharge

Overhung Pulley



| Size | A                 | B                 | C                 | D                | E                 | F                 | G                | H                 | J                 | K                 | M                 | O                 | P                 | Q                 | R                 | V                 | W  | AA                | BB                | CC                | DD                | EE                | Extreme Wheel Diameter | Shaft Dia. | Anchor Bolts    |
|------|-------------------|-------------------|-------------------|------------------|-------------------|-------------------|------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|----|-------------------|-------------------|-------------------|-------------------|-------------------|------------------------|------------|-----------------|
| 16   | 87 $\frac{1}{2}$  | 62 $\frac{1}{8}$  | 70 $\frac{1}{8}$  | 56 $\frac{1}{8}$ | 76 $\frac{1}{8}$  | 146 $\frac{1}{2}$ | 51 $\frac{1}{2}$ | 65 $\frac{1}{2}$  | 90 $\frac{1}{2}$  | 99 $\frac{1}{8}$  | 95                | 133               | 92 $\frac{1}{8}$  | 92 $\frac{1}{8}$  | 107 $\frac{1}{8}$ | 164 $\frac{1}{2}$ | 48 | 133 $\frac{1}{2}$ | 132 $\frac{3}{8}$ | 120 $\frac{1}{2}$ | 197 $\frac{1}{2}$ | 184 $\frac{1}{2}$ | 91 $\frac{1}{8}$       | 6          | 1 $\frac{1}{2}$ |
| 17   | 93 $\frac{1}{2}$  | 66 $\frac{1}{2}$  | 71 $\frac{1}{2}$  | 60 $\frac{1}{2}$ | 82 $\frac{1}{2}$  | 156 $\frac{1}{2}$ | 58 $\frac{1}{2}$ | 70 $\frac{1}{2}$  | 95                | 105 $\frac{1}{8}$ | 101 $\frac{1}{2}$ | 142 $\frac{1}{2}$ | 97 $\frac{1}{2}$  | 97 $\frac{1}{2}$  | 114 $\frac{1}{2}$ | 19                | 52 | 142 $\frac{1}{2}$ | 140 $\frac{1}{2}$ | 128 $\frac{1}{2}$ | 209 $\frac{1}{2}$ | 195 $\frac{1}{2}$ | 98 $\frac{1}{2}$       | 6          | 1 $\frac{1}{2}$ |
| 18   | 100               | 70 $\frac{1}{2}$  | 79                | 64 $\frac{1}{2}$ | 87 $\frac{1}{2}$  | 166 $\frac{1}{2}$ | 62 $\frac{1}{2}$ | 75 $\frac{1}{2}$  | 99 $\frac{1}{2}$  |                   | 108 $\frac{1}{2}$ | 152               | 103 $\frac{1}{8}$ | 103 $\frac{1}{8}$ |                   |                   |    | 152 $\frac{1}{2}$ | 149 $\frac{1}{2}$ | 137 $\frac{1}{2}$ |                   | 206 $\frac{1}{2}$ | 104 $\frac{1}{2}$      | 6          | 1 $\frac{1}{2}$ |
| 20   | 112 $\frac{1}{2}$ | 78 $\frac{1}{2}$  | 88 $\frac{1}{2}$  | 72 $\frac{1}{2}$ | 98 $\frac{1}{2}$  | 185 $\frac{1}{2}$ | 68 $\frac{1}{2}$ | 84 $\frac{1}{2}$  | 115 $\frac{1}{2}$ |                   | 122 $\frac{1}{2}$ | 171               | 119 $\frac{1}{8}$ | 119 $\frac{1}{8}$ |                   |                   |    | 171 $\frac{1}{2}$ | 167 $\frac{3}{8}$ | 153               |                   | 239 $\frac{1}{2}$ | 118                    | 8          | 1 $\frac{1}{2}$ |
| 22   | 125               | 86 $\frac{1}{2}$  | 98 $\frac{1}{2}$  | 80 $\frac{1}{2}$ | 109 $\frac{1}{2}$ | 204 $\frac{1}{2}$ | 75 $\frac{1}{2}$ | 93 $\frac{1}{2}$  | 125               |                   | 135 $\frac{1}{2}$ | 190               | 130 $\frac{1}{8}$ | 130 $\frac{1}{8}$ |                   |                   |    | 190 $\frac{1}{2}$ | 185 $\frac{1}{2}$ | 168 $\frac{1}{2}$ |                   | 260 $\frac{1}{2}$ | 131                    | 8          | 1 $\frac{1}{2}$ |
| 24   | 137 $\frac{1}{2}$ | 94 $\frac{1}{2}$  | 107 $\frac{1}{2}$ | 88 $\frac{1}{2}$ | 120 $\frac{1}{2}$ | 223 $\frac{1}{2}$ | 81 $\frac{1}{2}$ | 103 $\frac{1}{2}$ | 134 $\frac{1}{2}$ |                   | 149 $\frac{1}{2}$ | 209               | 140 $\frac{1}{8}$ | 140 $\frac{1}{8}$ |                   |                   |    | 209 $\frac{1}{2}$ | 202 $\frac{1}{2}$ | 184 $\frac{1}{2}$ |                   | 281 $\frac{1}{2}$ | 144                    | 8          | 1 $\frac{1}{2}$ |
| 26   | 150               | 102 $\frac{1}{2}$ | 117 $\frac{1}{2}$ | 96 $\frac{1}{2}$ | 131 $\frac{1}{2}$ | 242 $\frac{1}{2}$ | 88 $\frac{1}{2}$ | 112 $\frac{1}{2}$ | 144               |                   | 162 $\frac{1}{2}$ | 228               | 151 $\frac{1}{8}$ | 151 $\frac{1}{8}$ |                   |                   |    | 228 $\frac{1}{2}$ | 220 $\frac{1}{2}$ | 200 $\frac{1}{2}$ |                   | 302 $\frac{1}{2}$ | 157                    | 8          | 1 $\frac{1}{2}$ |

Double Inlet

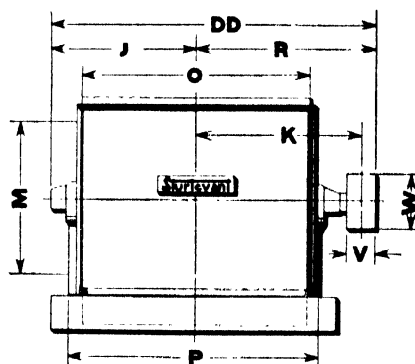
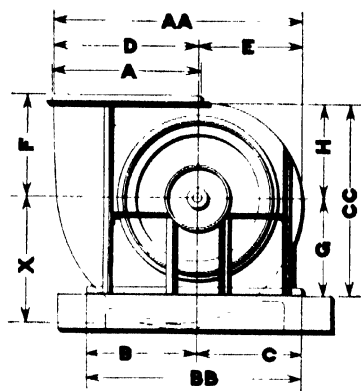
## Multivane Fan—Design 3

Double Width

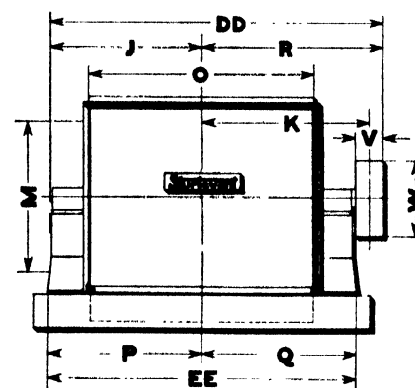
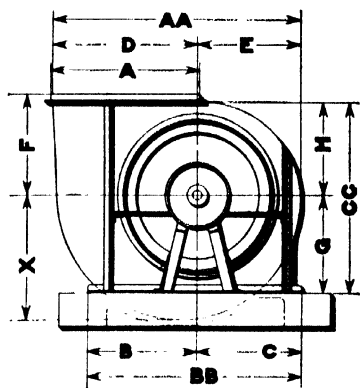
 $\frac{7}{8}$  Housing

Up Blast Discharge

Overhung Pulley



| Size | A                | B                | C                | D                | E                | F                | G                | H                | J                | K                | M                | O                 | P                 | R                | V                | W  | X                | AA                | BB                | CC               | DD                | Extreme Wheel Diameter | Shaft Diameter  | Anchor Bolts |
|------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|-------------------|------------------|------------------|----|------------------|-------------------|-------------------|------------------|-------------------|------------------------|-----------------|--------------|
| 10   | 50 $\frac{1}{2}$ | 36               | 28 $\frac{1}{2}$ | 49 $\frac{1}{2}$ | 34 $\frac{1}{2}$ | 32 $\frac{1}{2}$ | 32               | 30 $\frac{1}{2}$ | 47 $\frac{1}{2}$ | 52 $\frac{1}{2}$ | 54 $\frac{1}{2}$ | 76 $\frac{1}{2}$  | 83 $\frac{1}{2}$  | 59 $\frac{1}{2}$ | 13 $\frac{1}{2}$ | 28 | 40 $\frac{1}{2}$ | 83 $\frac{1}{2}$  | 64 $\frac{1}{2}$  | 62 $\frac{1}{2}$ | 106 $\frac{1}{2}$ | 52 $\frac{1}{2}$       | 2 $\frac{1}{2}$ | 1            |
| 11   | 56 $\frac{1}{2}$ | 40               | 31 $\frac{1}{2}$ | 55 $\frac{1}{2}$ | 39               | 36 $\frac{1}{2}$ | 35 $\frac{1}{2}$ | 33 $\frac{1}{2}$ | 53 $\frac{1}{2}$ | 58 $\frac{1}{2}$ | 61 $\frac{1}{2}$ | 86 $\frac{1}{2}$  | 92 $\frac{1}{2}$  | 65 $\frac{1}{2}$ | 14               | 32 | 45 $\frac{1}{2}$ | 94 $\frac{1}{2}$  | 71 $\frac{1}{2}$  | 69 $\frac{1}{2}$ | 119 $\frac{1}{2}$ | 58 $\frac{1}{2}$       | 3 $\frac{1}{2}$ | 1            |
| 12   | 63 $\frac{1}{2}$ | 45 $\frac{1}{2}$ | 36 $\frac{1}{2}$ | 61 $\frac{1}{2}$ | 43 $\frac{1}{2}$ | 40 $\frac{1}{2}$ | 39 $\frac{1}{2}$ | 37 $\frac{1}{2}$ | 59 $\frac{1}{2}$ | 65 $\frac{1}{2}$ | 68 $\frac{1}{2}$ | 95 $\frac{1}{2}$  | 104 $\frac{1}{2}$ | 73 $\frac{1}{2}$ | 15 $\frac{1}{2}$ | 36 | 50 $\frac{1}{2}$ | 104 $\frac{1}{2}$ | 81 $\frac{1}{2}$  | 77 $\frac{1}{2}$ | 133 $\frac{1}{2}$ | 65 $\frac{1}{2}$       | 3 $\frac{1}{2}$ | 1            |
| 13   | 69 $\frac{1}{2}$ | 49 $\frac{1}{2}$ | 39 $\frac{1}{2}$ | 67 $\frac{1}{2}$ | 47 $\frac{1}{2}$ | 43 $\frac{1}{2}$ | 43 $\frac{1}{2}$ | 41 $\frac{1}{2}$ | 64 $\frac{1}{2}$ | 70 $\frac{1}{2}$ | 74 $\frac{1}{2}$ | 105 $\frac{1}{2}$ | 113 $\frac{1}{2}$ | 78 $\frac{1}{2}$ | 15 $\frac{1}{2}$ | 40 | 55 $\frac{1}{2}$ | 115 $\frac{1}{2}$ | 89 $\frac{1}{2}$  | 84 $\frac{1}{2}$ | 142 $\frac{1}{2}$ | 72 $\frac{1}{2}$       | 3 $\frac{1}{2}$ | 1            |
| 14   | 75 $\frac{1}{2}$ | 55 $\frac{1}{2}$ | 50 $\frac{1}{2}$ | 73 $\frac{1}{2}$ | 51 $\frac{1}{2}$ | 47 $\frac{1}{2}$ | 47 $\frac{1}{2}$ | 45 $\frac{1}{2}$ | 70 $\frac{1}{2}$ | 76 $\frac{1}{2}$ | 81 $\frac{1}{2}$ | 114 $\frac{1}{2}$ | 124 $\frac{1}{2}$ | 84 $\frac{1}{2}$ | 16               | 42 | 60 $\frac{1}{2}$ | 125 $\frac{1}{2}$ | 105 $\frac{1}{2}$ | 92 $\frac{1}{2}$ | 155 $\frac{1}{2}$ | 78 $\frac{1}{2}$       | 4 $\frac{1}{2}$ | 1            |
| 15   | 82 $\frac{1}{2}$ | 59 $\frac{1}{2}$ | 53 $\frac{1}{2}$ | 79 $\frac{1}{2}$ | 56 $\frac{1}{2}$ | 52 $\frac{1}{2}$ | 50 $\frac{1}{2}$ | 48 $\frac{1}{2}$ | 76 $\frac{1}{2}$ | 82 $\frac{1}{2}$ | 88 $\frac{1}{2}$ | 124 $\frac{1}{2}$ | 133 $\frac{1}{2}$ | 90 $\frac{1}{2}$ | 16               | 46 | 66 $\frac{1}{2}$ | 136 $\frac{1}{2}$ | 113 $\frac{1}{2}$ | 99 $\frac{1}{2}$ | 167 $\frac{1}{2}$ | 85 $\frac{1}{2}$       | 5               | 1            |



| Size | A                 | B                | C                | D                 | E                 | F                | G                | H                | J                 | K                 | M                 | O                 | P                 | Q                 | R                 | V                | W                 | X                 | AA                | BB                | CC                | DD                | EE                | Ex. Wheel Dia.    | Shaft Dia. | Anchor Bolts    |
|------|-------------------|------------------|------------------|-------------------|-------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------------|-----------------|
| 16   | 88 $\frac{1}{2}$  | 64               | 58 $\frac{1}{2}$ | 85 $\frac{1}{2}$  | 60 $\frac{1}{2}$  | 56 $\frac{1}{2}$ | 54 $\frac{1}{2}$ | 52 $\frac{1}{2}$ | 90 $\frac{1}{2}$  | 99 $\frac{1}{2}$  | 95                | 133 $\frac{1}{2}$ | 92 $\frac{1}{2}$  | 92 $\frac{1}{2}$  | 107 $\frac{1}{2}$ | 16 $\frac{1}{2}$ | 48                | 71                | 146 $\frac{1}{2}$ | 122 $\frac{1}{2}$ | 107 $\frac{1}{2}$ | 197 $\frac{1}{2}$ | 181 $\frac{1}{2}$ | 91 $\frac{1}{2}$  | 6          | 1 $\frac{1}{2}$ |
| 17   | 94 $\frac{1}{2}$  | 68               | 62 $\frac{1}{2}$ | 92 $\frac{1}{2}$  | 64 $\frac{1}{2}$  | 59 $\frac{1}{2}$ | 58 $\frac{1}{2}$ | 56 $\frac{1}{2}$ | 95                | 105 $\frac{1}{2}$ | 101 $\frac{1}{2}$ | 143 $\frac{1}{2}$ | 97 $\frac{1}{2}$  | 97 $\frac{1}{2}$  | 114 $\frac{1}{2}$ | 18               | 52                | 76 $\frac{1}{2}$  | 156 $\frac{1}{2}$ | 130 $\frac{1}{2}$ | 114 $\frac{1}{2}$ | 209 $\frac{1}{2}$ | 195 $\frac{1}{2}$ | 98 $\frac{1}{2}$  | 6          | 1 $\frac{1}{2}$ |
| 18   | 100 $\frac{1}{2}$ | 72               | 66 $\frac{1}{2}$ | 98 $\frac{1}{2}$  | 69 $\frac{1}{2}$  | 63 $\frac{1}{2}$ | 62               | 60 $\frac{1}{2}$ | 99 $\frac{1}{2}$  | 108 $\frac{1}{2}$ | 152 $\frac{1}{2}$ | 103 $\frac{1}{2}$ | 103 $\frac{1}{2}$ | 119 $\frac{1}{2}$ | 19                | 56               | 81 $\frac{1}{2}$  | 167 $\frac{1}{2}$ | 138 $\frac{1}{2}$ | 122 $\frac{1}{2}$ | 122 $\frac{1}{2}$ | 206 $\frac{1}{2}$ | 206 $\frac{1}{2}$ | 104 $\frac{1}{2}$ | 6          | 1 $\frac{1}{2}$ |
| 20   | 113 $\frac{1}{2}$ | 81               | 73 $\frac{1}{2}$ | 110 $\frac{1}{2}$ | 77 $\frac{1}{2}$  | 71 $\frac{1}{2}$ | 68               | 67 $\frac{1}{2}$ | 115 $\frac{1}{2}$ | 122 $\frac{1}{2}$ | 172 $\frac{1}{2}$ | 119 $\frac{1}{2}$ | 119 $\frac{1}{2}$ | 135 $\frac{1}{2}$ | 21                | 60               | 91 $\frac{1}{2}$  | 188 $\frac{1}{2}$ | 154 $\frac{1}{2}$ | 135 $\frac{1}{2}$ | 135 $\frac{1}{2}$ | 239 $\frac{1}{2}$ | 239 $\frac{1}{2}$ | 118               | 8          | 1 $\frac{1}{2}$ |
| 22   | 125 $\frac{1}{2}$ | 90               | 81 $\frac{1}{2}$ | 122 $\frac{1}{2}$ | 86 $\frac{1}{2}$  | 79 $\frac{1}{2}$ | 75               | 75 $\frac{1}{2}$ | 125 $\frac{1}{2}$ | 135 $\frac{1}{2}$ | 191 $\frac{1}{2}$ | 130 $\frac{1}{2}$ | 130 $\frac{1}{2}$ | 149 $\frac{1}{2}$ | 23                | 64               | 101 $\frac{1}{2}$ | 209 $\frac{1}{2}$ | 171 $\frac{1}{2}$ | 150 $\frac{1}{2}$ | 150 $\frac{1}{2}$ | 260 $\frac{1}{2}$ | 260 $\frac{1}{2}$ | 131               | 8          | 1 $\frac{1}{2}$ |
| 24   | 138 $\frac{1}{2}$ | 98 $\frac{1}{2}$ | 88 $\frac{1}{2}$ | 134 $\frac{1}{2}$ | 95 $\frac{1}{2}$  | 87 $\frac{1}{2}$ | 81 $\frac{1}{2}$ | 82 $\frac{1}{2}$ | 134 $\frac{1}{2}$ | 149 $\frac{1}{2}$ | 210 $\frac{1}{2}$ | 140 $\frac{1}{2}$ | 140 $\frac{1}{2}$ | 162 $\frac{1}{2}$ | 25                | 68               | 111 $\frac{1}{2}$ | 229 $\frac{1}{2}$ | 187 $\frac{1}{2}$ | 164 $\frac{1}{2}$ | 164 $\frac{1}{2}$ | 281 $\frac{1}{2}$ | 281 $\frac{1}{2}$ | 144               | 8          | 1 $\frac{1}{2}$ |
| 26   | 150 $\frac{1}{2}$ | 108              | 96 $\frac{1}{2}$ | 147 $\frac{1}{2}$ | 103 $\frac{1}{2}$ | 94 $\frac{1}{2}$ | 88               | 90 $\frac{1}{2}$ | 144 $\frac{1}{2}$ | 162 $\frac{1}{2}$ | 229 $\frac{1}{2}$ | 151 $\frac{1}{2}$ | 151 $\frac{1}{2}$ | 178 $\frac{1}{2}$ | 27                | 72               | 121 $\frac{1}{2}$ | 250 $\frac{1}{2}$ | 204 $\frac{1}{2}$ | 178 $\frac{1}{2}$ | 178 $\frac{1}{2}$ | 302 $\frac{1}{2}$ | 302 $\frac{1}{2}$ | 157               | 8          | 1 $\frac{1}{2}$ |

Double Inlet

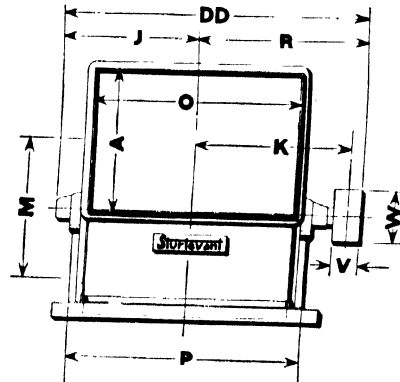
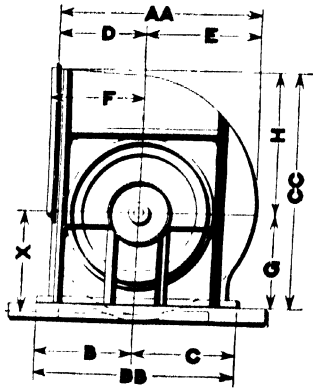
## Multivane Fan—Design 3

Double Width

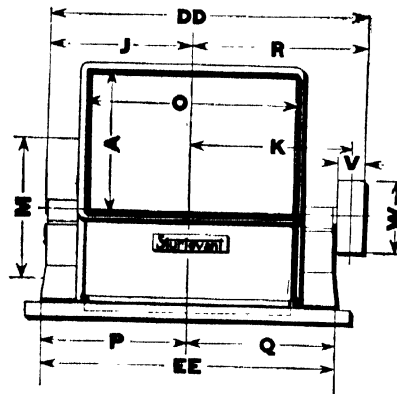
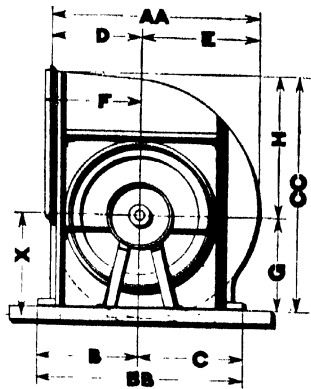
 $\frac{7}{8}$  Housing

Top Horizontal Discharge

Overhung Pulley



| Size | A  | B  | C  | D  | E  | F  | G  | H  | J  | K  | M  | O   | P   | R  | V  | W  | X  | AA  | BB  | CC  | DD  | Extreme Wheel Dia. | Shaft Dia. | Anchor Bolts |
|------|----|----|----|----|----|----|----|----|----|----|----|-----|-----|----|----|----|----|-----|-----|-----|-----|--------------------|------------|--------------|
| 10   | 50 | 25 | 31 | 30 | 40 | 32 | 32 | 49 | 47 | 52 | 54 | 76  | 83  | 59 | 13 | 28 | 31 | 70  | 59  | 81  | 106 | 52                 | 2 1/2      | 2            |
| 11   | 56 | 28 | 38 | 33 | 45 | 36 | 35 | 55 | 53 | 58 | 61 | 86  | 92  | 65 | 14 | 32 | 39 | 79  | 66  | 91  | 119 | 58                 | 3 1/2      | 2            |
| 12   | 63 | 32 | 42 | 37 | 50 | 40 | 39 | 61 | 59 | 65 | 68 | 95  | 101 | 73 | 15 | 36 | 43 | 88  | 75  | 100 | 133 | 65                 | 3 1/2      | 2            |
| 13   | 69 | 35 | 46 | 41 | 53 | 43 | 43 | 67 | 64 | 70 | 74 | 105 | 113 | 78 | 15 | 40 | 47 | 97  | 81  | 110 | 142 | 72                 | 3 1/2      | 2            |
| 14   | 75 | 50 | 50 | 45 | 60 | 47 | 47 | 73 | 70 | 76 | 81 | 114 | 121 | 84 | 16 | 42 | 51 | 106 | 100 | 120 | 155 | 78                 | 4 1/2      | 2            |
| 15   | 82 | 53 | 53 | 48 | 66 | 52 | 50 | 79 | 76 | 82 | 88 | 124 | 133 | 90 | 16 | 46 | 56 | 111 | 107 | 130 | 167 | 85                 | 5 1/2      | 2            |



| Size | A   | B  | C  | D  | E   | F  | G  | H   | J   | K   | M   | O   | P   | Q   | R   | V  | W  | X   | AA  | BB  | CC  | DD  | EE  | Ex. Wheel Dia. | Shaft Dia. | Anchor Bolts |
|------|-----|----|----|----|-----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|-----|-----|-----|-----|-----|-----|----------------|------------|--------------|
| 16   | 88  | 58 | 58 | 52 | 71  | 56 | 54 | 85  | 90  | 99  | 95  | 133 | 92  | 92  | 107 | 16 | 48 | 60  | 123 | 117 | 140 | 197 | 184 | 9 1/2          | 6          | 1 1/2        |
| 17   | 91  | 62 | 62 | 56 | 76  | 59 | 58 | 92  | 95  | 105 | 101 | 143 | 97  | 97  | 114 | 19 | 52 | 64  | 132 | 124 | 150 | 209 | 195 | 9 1/2          | 6          | 1 1/2        |
| 18   | 100 | 66 | 66 | 60 | 81  | 63 | 62 | 98  | 99  | 108 | 152 | 103 | 103 | 103 | 114 | 19 | 52 | 69  | 141 | 132 | 160 | 206 | 206 | 10 1/2         | 6          | 1 1/2        |
| 20   | 113 | 73 | 73 | 67 | 91  | 71 | 68 | 110 | 115 | 122 | 172 | 119 | 119 | 119 | 119 | 19 | 52 | 77  | 158 | 147 | 178 | 239 | 239 | 11 1/2         | 8          | 1 1/2        |
| 22   | 125 | 81 | 81 | 75 | 101 | 79 | 75 | 122 | 125 | 135 | 191 | 130 | 130 | 130 | 130 | 19 | 52 | 86  | 176 | 162 | 197 | 260 | 260 | 13 1/2         | 8          | 1 1/2        |
| 24   | 138 | 88 | 88 | 82 | 111 | 87 | 81 | 134 | 134 | 149 | 210 | 140 | 140 | 140 | 140 | 19 | 52 | 95  | 194 | 177 | 216 | 281 | 281 | 14 1/2         | 8          | 1 1/2        |
| 26   | 150 | 96 | 96 | 90 | 121 | 94 | 88 | 147 | 144 | 162 | 229 | 151 | 151 | 151 | 151 | 19 | 52 | 103 | 211 | 192 | 235 | 302 | 302 | 15 1/2         | 8          | 1 1/2        |

Single Inlet

## No. 2 Multivane Fan—Design 3

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. |
|--------|------------------|------------------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|
|        |                  |                  | Static Pressure 1/2" Water .0722 ozs. per sq. inch  |       | Static Pressure 3/4" Water .145 ozs. per sq. inch   |       | Static Pressure 1" Water .217 ozs. per sq. inch     |       | Static Pressure 1 1/4" Water .289 ozs. per sq. inch |       | Static Pressure 1 1/2" Water .361 ozs. per sq. inch |       | Static Pressure 1 3/4" Water .434 ozs. per sq. inch |       | Static Pressure 2" Water .506 ozs. per sq. inch     |       |
| 308    | 1075             | 152              | 147   | 0.006 |   |       |   |       |   |       |   |       |   |       |   |       |
| 353    | 1200             | .189             | 650   | 0.027 |   |       |   |       |   |       |   |       |   |       |   |       |
| 412    | 1400             | .258             | 870   | 0.051 | 23  | 0.010 |   |       |   |       |   |       |   |       |   |       |
| 470    | 1600             | .337             | 1,000   | 0.08  | 778   | 0.058 |   |       |   |       |   |       |   |       |   |       |
| 529    | 1800             | .426             | 1,220   | 0.115 | 1,140   | 0.099 | 188   | 0.029 |   |       |   |       |   |       |   |       |
| 588    | 2000             | .526             | 1,390   | 0.160 | 1,250   | 0.150 | 1,020   | 0.120 | 53  | 0.029 |   |       |   |       |   |       |
| 646    | 2200             | .636             | 1,540   | 0.220 | 1,440   | 0.205 | 1,270   | 0.180 | 991   | 0.140 | 18  | 0.034 |   |       |   |       |
| 705    | 2400             | .750             | 1,700   | 0.285 | 1,610   | 0.275 | 1,480   | 0.255 | 1,300   | 0.220 | 967   | 0.165 | 14  | 0.047 |   |       |
| 765    | 2600             | .889             | 1,850   | 0.365 | 1,770   | 0.355 | 1,670   | 0.335 | 1,520   | 0.305 | 1,340   | 0.265 | 956   | 0.195 |   |       |
| 824    | 2800             | 1.03             | 1,940   | 0.445 | 1,850   | 0.445 | 1,850   | 0.435 | 1,740   | 0.405 | 1,600   | 0.370 | 1,360   | 0.315 | 965   | 0.245 |
| 882    | 3000             | 1.19             | 2,100   | 0.55  | 2,020   | 0.54  | 2,020   | 0.54  | 1,930   | 0.52  | 1,810   | 0.485 | 1,660   | 0.44  | 1,470   | 0.39  |
| 941    | 3200             | 1.35             | 2,250   | 0.67  | 2,190   | 0.66  | 2,190   | 0.66  | 2,110   | 0.65  | 2,010   | 0.61  | 1,900   | 0.58  | 1,750   | 0.54  |
| 1000   | 3400             | 1.52             |   |       | 2,410   | 0.81  | 2,350   | 0.80  | 2,280   | 0.78  | 2,200   | 0.77  | 2,110   | 0.72  | 1,990   | 0.68  |
| 1059   | 3600             | 1.71             |   |       | 2,560   | 0.98  | 2,500   | 0.95  | 2,450   | 0.94  | 2,380   | 0.92  | 2,290   | 0.88  | 2,200   | 0.85  |
| 1118   | 3800             | 1.90             |   |       | 2,710   | 1.15  | 2,660   | 1.15  | 2,610   | 1.10  | 2,550   | 1.10  | 2,480   | 1.05  | 2,390   | 1.05  |
| 1177   | 4000             | 2.11             |   |       |   |       | 2,820   | 1.30  | 2,770   | 1.30  | 2,710   | 1.30  | 2,660   | 1.25  | 2,580   | 1.25  |
| 1236   | 4200             | 2.32             |   |       |   |       | 2,980   | 1.55  | 2,920   | 1.50  | 2,880   | 1.50  | 2,830   | 1.50  | 2,760   | 1.45  |
| 1294   | 4400             | 2.55             |   |       |   |       | 3,130   | 1.80  | 3,090   | 1.75  | 3,040   | 1.75  | 2,990   | 1.70  | 2,940   | 1.70  |
| 1353   | 4600             | 2.78             |   |       |   |       | 3,280   | 2.05  | 3,240   | 2.00  | 3,200   | 2.00  | 3,150   | 1.95  | 3,100   | 1.95  |
| 1412   | 4800             | 3.03             |   |       |   |       |   |       | 3,400   | 2.30  | 3,360   | 2.25  | 3,320   | 2.25  | 3,270   | 2.2   |
| 1471   | 5000             | 3.29             |   |       |   |       |   |       | 3,550   | 2.6   | 3,520   | 2.55  | 3,480   | 2.55  | 3,430   | 2.50  |
| 1545   | 5250             | 3.63             |   |       |   |       |   |       | 3,740   | 3     | 3,710   | 3.00  | 3,670   | 3.0   | 3,630   | 2.95  |
| 1618   | 5500             | 3.98             |   |       |   |       |   |       |   |       | 3,900   | 3.45  | 3,860   | 3.4   | 3,820   | 3.40  |
| 1692   | 5750             | 4.35             |   |       |   |       |   |       |   |       | 4,090   | 3.95  | 4,060   | 3.9   | 4,030   | 3.90  |
| 1767   | 6000             | 4.74             |   |       |   |       |   |       |   |       | 4,280   | 4.55  | 4,240   | 4.5   | 4,220   | 4.45  |
| 1840   | 6250             | 5.14             |   |       |   |       |   |       |   |       |   |       | 4,440   | 5.1   | 4,420   | 5.1   |
| 1912   | 6500             | 5.56             |   |       |   |       |   |       |   |       |   |       | 4,630   | 5.8   | 4,600   | 5.7   |
| 1986   | 6750             | 5.99             |   |       |   |       |   |       |   |       |   |       | 4,800   | 6.4   | 4,800   | 6.4   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .217 ozs. per sq. inch     |       | Static Pressure 1 1/4" Water .289 ozs. per sq. inch |       | Static Pressure 1 1/2" Water .361 ozs. per sq. inch |       | Static Pressure 1 3/4" Water .434 ozs. per sq. inch |       | Static Pressure 2" Water .506 ozs. per sq. inch     |       | Static Pressure 2 1/4" Water .588 ozs. per sq. inch |       | Static Pressure 2 1/2" Water .670 ozs. per sq. inch |       |
| 882    | 3000             | 1.19             | 866   | 0.235 |   |       |   |       |   |       |   |       |   |       |   |       |
| 941    | 3200             | 1.35             | 1,500   | 0.47  | 156   | 0.145 |   |       |   |       |   |       |   |       |   |       |
| 1000   | 3400             | 1.52             | 1,840   | 0.62  | 1,370   | 0.47  |   |       |   |       |   |       |   |       |   |       |
| 1059   | 3600             | 1.71             | 2,080   | 0.80  | 1,780   | 0.68  | 387   | 0.235 |   |       |   |       |   |       |   |       |
| 1118   | 3800             | 1.90             | 2,300   | 0.99  | 2,000   | 0.87  | 1,690   | 0.72  | 204   | 0.215 |   |       |   |       |   |       |
| 1177   | 4000             | 2.11             | 2,500   | 1.20  | 2,300   | 1.10  | 2,040   | 0.95  | 1,550   | 0.73  |   |       |   |       |   |       |
| 1236   | 4200             | 2.32             | 2,690   | 1.40  | 2,520   | 1.30  | 2,310   | 1.20  | 2,000   | 1.05  | 589   | 0.40  |   |       |   |       |
| 1294   | 4400             | 2.55             | 2,880   | 1.65  | 2,720   | 1.50  | 2,540   | 1.45  | 2,320   | 1.30  | 1,990   | 1.05  |   |       |   |       |
| 1353   | 4600             | 2.78             | 3,040   | 1.90  | 2,920   | 1.85  | 2,760   | 1.75  | 2,570   | 1.60  | 2,350   | 1.45  | 368   | 0.465 |   |       |
| 1412   | 4800             | 3.03             | 3,220   | 2.20  | 3,100   | 2.15  | 2,970   | 2.05  | 2,800   | 1.90  | 2,600   | 1.75  | 1,920   | 1.30  |   |       |
| 1471   | 5000             | 3.29             | 3,390   | 2.50  | 3,290   | 2.45  | 3,170   | 2.35  | 3,020   | 2.25  | 2,850   | 2.15  | 2,370   | 1.75  | 322   | 0.67  |
| 1545   | 5250             | 3.63             | 3,590   | 2.90  | 3,510   | 2.85  | 3,380   | 2.80  | 3,280   | 2.70  | 3,120   | 2.55  | 2,750   | 2.20  | 2,080   | 1.70  |
| 1618   | 5500             | 3.98             | 3,790   | 3.35  | 3,710   | 3.30  | 3,620   | 3.25  | 3,510   | 3.15  | 3,380   | 3.05  | 3,070   | 2.75  | 2,630   | 2.30  |
| 1692   | 5750             | 4.35             | 3,980   | 3.9   | 3,920   | 3.85  | 3,830   | 3.80  | 3,740   | 3.70  | 3,620   | 3.55  | 3,300   | 3.30  | 3,010   | 2.90  |
| 1767   | 6000             | 4.74             | 4,200   | 4.4   | 4,120   | 4.35  | 4,000   | 4.35  | 3,900   | 4.25  | 3,800   | 4.15  | 3,630   | 3.85  | 3,330   | 3.55  |
| 1840   | 6250             | 5.14             | 4,390   | 5.0   | 4,330   | 4.95  | 4,250   | 4.90  | 4,180   | 4.85  | 4,090   | 4.75  | 3,880   | 4.5   | 3,620   | 4.2   |
| 1912   | 6500             | 5.56             | 4,580   | 5.6   | 4,500   | 5.6   | 4,450   | 5.5   | 4,390   | 5.5   | 4,300   | 5.4   | 4,130   | 5.2   | 3,910   | 4.9   |
| 1986   | 6750             | 5.99             | 4,770   | 6.3   | 4,720   | 6.3   | 4,650   | 6.2   | 4,600   | 6.2   | 4,530   | 6.1   | 4,350   | 5.9   | 4,150   | 5.6   |
| 2060   | 7000             | 6.45             | 4,960   | 7.1   | 4,910   | 7.1   | 4,850   | 7.0   | 4,800   | 6.9   | 4,730   | 6.8   | 4,580   | 6.7   | 4,400   | 6.4   |
| 2205   | 7500             | 7.40             | 5,340   | 8.8   | 5,300   | 8.8   | 5,250   | 8.7   | 5,200   | 8.5   | 5,140   | 8.5   | 5,010   | 8.4   | 4,880   | 8.2   |
| 2355   | 8000             | 8.41             |   |       | 5,680   | 10.5  | 5,640   | 10.5  | 5,590   | 10.5  | 5,550   | 10.5  | 5,430   | 10.0  | 5,320   | 10.0  |
| 2500   | 8500             | 9.50             |   |       | 6,060   | 13    | 6,010   | 13    | 5,980   | 12.5  | 5,940   | 12.5  | 5,830   | 12.5  | 5,750   | 12.5  |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 3 1/2" Water 2.62 ozs. per sq. inch |       | Static Pressure 4" Water 2.31 ozs. per sq. inch     |       | Static Pressure 4 1/2" Water 2.89 ozs. per sq. inch |       | Static Pressure 5" Water 3.47 ozs. per sq. inch     |       | Static Pressure 5 1/2" Water 4.05 ozs. per sq. inch |       | Static Pressure 6" Water 4.63 ozs. per sq. inch     |       | Static Pressure 6 1/2" Water 5.2 ozs. per sq. inch  |       |
| 1618   | 5500             | 3.98             | 576   | 0.83  |   |       |   |       |   |       |   |       |   |       |   |       |
| 1692   | 5750             | 4.35             | 2,470   | 2.4   |   |       |   |       |   |       |   |       |   |       |   |       |
| 1767   | 6000             | 4.74             | 2,940   | 3.1   | 1,490   | 1.50  |   |       |   |       |   |       |   |       |   |       |
| 1840   | 6250             | 5.14             | 3,300   | 3.8   | 2,850   | 3.25  |   |       |   |       |   |       |   |       |   |       |
| 1912   | 6500             | 5.56             | 3,630   | 4.5   | 3,280   | 4.05  | 515   | 1.3   |   |       |   |       |   |       |   |       |
| 1986   | 6750             | 5.99             | 3,910   | 5.3   | 3,620   | 4.8   | 2,560   | 3.4   |   |       |   |       |   |       |   |       |
| 2060   | 7000             | 6.45             | 4,190   | 6.1   | 3,940   | 5.7   | 3,230   | 4.6   | 300   | 1.4   |   |       |   |       |   |       |
| 2205   | 7500             | 7.40             | 4,700   | 7.9   | 4,500   | 7.5   | 3,980   | 6.6   | 3,150   | 5.2   | 235   | 1.65  |   |       |   |       |
| 2355   | 8000             | 8.41             | 5,170   | 9.9   | 5,010   | 9.6   | 4,600   | 8.7   | 4,070   | 7.6   | 3,100   | 5.8   | 211   | 1.9   |   |       |
| 2500   | 8500             | 9.50             | 5,610   | 12.0  | 5,470   | 12.0  | 5,150   | 11.0  | 4,710   | 10.0  | 4,200   | 8.9   | 2,820   | 6.8   | 252   | 2.45  |
| 2615   | 9000             | 10.67            | 6,020   | 14.5  | 5,930   | 14.5  | 5,650   | 13.5  | 5,310   | 13.0  | 4,890   | 11.5  | 4,330   | 10.0  | 2,230   | 5.5   |
| 2795   | 9500             | 11.89            | 6,450   | 17    | 6,350   | 17    | 6,120   | 16.5  | 5,840   | 15.5  | 4,490   | 14.5  | 5,060   | 13.5  | 4,530   | 12.0  |
| 2940   | 10000            | 13.17            | 6,860   | 20    | 6,780   | 20    | 6,580   | 19.5  | 6,330   | 19    | 6,030   | 18    | 5,700   | 17    | 5,270   | 15.5  |



### Single Width

| R.P.M. | Tip Speed<br>F.P.M.    | S.N.D.<br>in<br>inches | Volume<br>C.F.M.<br>Static Pressure<br>1/4" Water<br>.0722 ozs. per<br>sq. inch | H. P.  | Volume<br>C.F.M.<br>Static Pressure<br>1/4" Water<br>.145 ozs. per<br>sq. inch | H. P.  | Volume<br>C.F.M.<br>Static Pressure<br>1/4" Water<br>.217 ozs. per<br>sq. inch | H. P.  | Volume<br>C.F.M.<br>Static Pressure<br>1/2" Water<br>.289 ozs. per<br>sq. inch | H. P. | Volume<br>C.F.M.<br>Static Pressure<br>1/2" Water<br>.361 ozs. per<br>sq. inch | H. P. | Volume<br>C.F.M.<br>Static Pressure<br>3/4" Water<br>.434 ozs. per<br>sq. inch | H. P. | Volume<br>C.F.M.<br>Static Pressure<br>1" Water<br>.506 ozs. per<br>sq. inch | H. P. |
|--------|------------------------|------------------------|---|--|--|--|--|--|--|-------|--|-------|--|-------|--|-------|
| 247    | 1075                   | 152                    | 230   | 0 010  |  |  |  |  |  |       |  |       |  |       |  |       |
| 282    | 1200                   | 189                    | 1,010   | 0 043  |  |  |  |  |  |       |  |       |  |       |  |       |
| 329    | 1400                   | 258                    | 1,360   | 0 080  | 36   | 0 016  |  |  |  |       |  |       |  |       |  |       |
| 376    | 1600                   | 337                    | 1,650   | 0 125  | 1,220  | 0 091  |  |  |  |       |  |       |  |       |  |       |
| 424    | 1800                   | 426                    | 1,910   | 0 185  | 1,820  | 0 155  | 294  | 0 046  |  |       |  |       |  |       |  |       |
| 470    | 2000                   | 526                    | 2,160   | 0 250  | 1,950  | 0 235  | 1,590  | 0 185  | 82   | 0 046 |  |       |  |       |  |       |
| 517    | 2200                   | 636                    | 2,420   | 0 355  | 2,240  | 0 325  | 1,980  | 0 285  | 1,550  | 0 220 | 28   | 0 56  |  |       |  |       |
| 565    | 2400                   | 759                    | 2,650   | 0 445  | 2,510  | 0 43   | 2,320  | 0 395  | 2,030  | 0 345 | 1,510  | 0 255 | 22   | 0 073 |  |       |
| 611    | 2600                   | 889                    | 2,880   | 0 57   | 2,770  | 0 55   | 2,610  | 0 53   | 2,390  | 0 48  | 2,090  | 0 41  | 1,490  | 0 305 |  |       |
| 659    | 2800                   | 1 03                   |   |  | 3,030  | 0 70   | 2,890  | 0 68   | 2,720  | 0 64  | 2,490  | 0 58  | 2,120  | 0 49  | 1,510  | 0 38  |
| 705    | 3000                   | 1 19                   |   |  | 3,290  | 0 86   | 3,160  | 0 84   | 3,010  | 0 81  | 2,830  | 0 76  | 2,600  | 0 69  | 2,300  | 0 61  |
| 753    | 3200                   | 1 35                   |   |  | 3,520  | 1 05   | 3,420  | 1 05   | 3,300  | 1 00  | 3,140  | 0 96  | 2,960  | 0 90  | 2,730  | 0 84  |
| 800    | 3400                   | 1 52                   |   |  | 3,760  | 1 25   | 3,670  | 1 25   | 3,560  | 1 20  | 3,430  | 1 20  | 3,300  | 1 15  | 3,100  | 1 05  |
| 847    | 3600                   | 1 71                   |   |  | 3,990  | 1 55   | 3,910  | 1 50   | 3,820  | 1 45  | 3,720  | 1 45  | 3,580  | 1 40  | 3,440  | 1 30  |
| 894    | 3800                   | 1 90                   |   |  | 4,240  | 1 8  | 4,160  | 1 75   | 4,070  | 1 75  | 3,980  | 1 70  | 3,870  | 1 65  | 3,730  | 1 60  |
| 941    | 4000                   | 2 11                   |   |  |  |  | 4,400  | 2 05   | 4,320  | 2 00  | 4,240  | 2 00  | 4,150  | 1 95  | 4,030  | 1 90  |
| 988    | 4200                   | 2 32                   |   |  |  |  | 4,650  | 2 4  | 4,560  | 2 35  | 4,490  | 2 35  | 4,420  | 2 30  | 4,310  | 2 25  |
| 1036   | 4400                   | 2 55                   |   |  |  |  | 4,880  | 2 8  | 4,820  | 2 75  | 4,750  | 2 70  | 4,660  | 2 65  | 4,580  | 2 65  |
| 1082   | 4600                   | 2 78                   |   |  |  |  | 5,110  | 3 2  | 5,060  | 3 10  | 5,000  | 3 10  | 4,910  | 3 05  | 4,850  | 3 05  |
| 1130   | 4800                   | 3 03                   |   |  |  |  |  |  | 5,310  | 3 55  | 5,240  | 3 55  | 5,180  | 3 50  | 5,110  | 3 45  |
| 1178   | 5000                   | 3 29                   |   |  |  |  |  |  | 5,550  | 4 05  | 5,490  | 4 0   | 5,420  | 3 95  | 5,350  | 3 9   |
| 1235   | 5250                   | 3 63                   |   |  |  |  |  |  | 5,850  | 4 7   | 5,800  | 4 65  | 5,730  | 4 65  | 5,660  | 4 6   |
| 1293   | 5500                   | 3 98                   |   |  |  |  |  |  |  |       | 6,090  | 5 4   | 6,020  | 5 3   | 5,970  | 5 3   |
| 1353   | 5750                   | 4 35                   |   |  |  |  |  |  |  |       | 6,390  | 6 2   | 6,350  | 6 1   | 6,290  | 6 1   |
| 1412   | 6000                   | 4 74                   |   |  |  |  |  |  |  |       | 6,690  | 7 1   | 6,650  | 7     | 6,600  | 7 0   |
| 1471   | 6250                   | 5 14                   |   |  |  |  |  |  |  |       |  |       | 6,910  | 8     | 6,900  | 7 9   |
| 1530   | 6500                   | 5 56                   |   |  |  |  |  |  |  |       |  |       | 7,240  | 9     | 7,200  | 8 9   |
| 1589   | 6750                   | 5 99                   |   |  |  |  |  |  |  |       |  |       |  |       | 7,500  | 10    |
| R.P.M. | Tip<br>Speed<br>F.P.M. | S.N.D.<br>in<br>inches | Static Pressure<br>1" Water<br>.578 ozs. per<br>sq. inch                        | Static Pressure<br>1 1/4" Water<br>.723 ozs. per<br>sq. inch | Static Pressure<br>1 1/2" Water<br>.878 ozs. per<br>sq. inch                   | Static Pressure<br>1 3/4" Water<br>1.01 ozs. per<br>sq. inch | Static Pressure<br>2" Water<br>1.16 ozs. per<br>sq. inch                       | Static Pressure<br>2 1/4" Water<br>1.45 ozs. per<br>sq. inch | Static Pressure<br>2 1/2" Water<br>1.73 ozs. per<br>sq. inch                   |       |  |       |  |       |  |       |
| 705    | 3000                   | 1 19                   | 1,350   | 0 365  |  |  |  |  |  |       |  |       |  |       |  |       |
| 753    | 3200                   | 1 35                   | 2,440   | 0 73   | 243  | 0 225  |  |  |  |       |  |       |  |       |  |       |
| 800    | 3400                   | 1 52                   | 2,880   | 0 98   | 2,140  | 0 73   |  |  |  |       |  |       |  |       |  |       |
| 847    | 3600                   | 1 71                   | 3,240   | 1 25   | 2,780  | 1 05   | 588  | 0 365  |  |       |  |       |  |       |  |       |
| 894    | 3800                   | 1 90                   | 3,600   | 1 55   | 3,220  | 1 35   | 2,640  | 1 10   | 318  | 0 38  |  |       |  |       |  |       |
| 941    | 4000                   | 2 11                   | 3,900   | 1 85   | 3,590  | 1 70   | 3,180  | 1 50   | 2,420  | 1 15  |  |       |  |       |  |       |
| 988    | 4200                   | 2 32                   | 4,200   | 2 20   | 3,940  | 2 05   | 3,600  | 1 85   | 3,130  | 1 60  | 919  | 0 63  |  |       |  |       |
| 1036   | 4400                   | 2 55                   | 4,400   | 2 60   | 4,250  | 2 45   | 3,960  | 2 25   | 3,620  | 2 05  | 3,050  | 1 65  |  |       |  |       |
| 1082   | 4600                   | 2 78                   | 4,750   | 3 00   | 4,550  | 2 85   | 4,310  | 2 70   | 4,000  | 2 5   | 3,670  | 2 25  | 575  | 0 73  |  |       |
| 1130   | 4800                   | 3 03                   | 5,020   | 3 40   | 4,840  | 3 30   | 4,530  | 3 20   | 4,360  | 3 0   | 4,050  | 2 75  | 3,000  | 2 05  |  |       |
| 1178   | 5000                   | 3 29                   | 5,290   | 3 90   | 5,130  | 3 80   | 4,950  | 3 70   | 4,700  | 3 5   | 4,440  | 3 30  | 3,700  | 2 70  | 502  | 0 90  |
| 1235   | 5250                   | 3 63                   | 5,400   | 4 55   | 5,470  | 4 45   | 5,290  | 4 35   | 5,110  | 4 2   | 4,870  | 4 00  | 4,300  | 3 45  | 3,250  | 2 65  |
| 1293   | 5500                   | 3 98                   | 5,920   | 5 2  | 5,800  | 5 2  | 5,650  | 5 1  | 5,470  | 4 9   | 5,280  | 4 75  | 4,790  | 4 25  | 4,110  | 3 65  |
| 1353   | 5750                   | 4 35                   | 6,210   | 6 1  | 6,110  | 6 0  | 5,960  | 5 9  | 5,830  | 5 8   | 5,650  | 5 6   | 5,250  | 5 1   | 4,700  | 4 55  |
| 1412   | 6000                   | 4 74                   | 6,550   | 6 9  | 6,450  | 6 8  | 6,340  | 6 8  | 6,180  | 6 6   | 6,020  | 6 5   | 5,660  | 6 1   | 5,200  | 5 5   |
| 1471   | 6250                   | 5 14                   | 6,850   | 7 8  | 6,760  | 7 7  | 6,650  | 7 7  | 6,510  | 7 5   | 6,370  | 7 4   | 6,050  | 7 1   | 5,650  | 6 5   |
| 1530   | 6500                   | 5 56                   | 7,140   | 8 8  | 7,030  | 8 7  | 6,950  | 8 6  | 6,850  | 8 6   | 6,710  | 8 4   | 6,440  | 8 1   | 6,100  | 7 6   |
| 1589   | 6750                   | 5 99                   | 7,450   | 9 9  | 7,370  | 9 9  | 7,280  | 9 7  | 7,180  | 9 6   | 7,060  | 9 5   | 6,800  | 9 2   | 6,490  | 8 8   |
| 1648   | 7000                   | 6 45                   | 7,750   | 11   | 7,670  | 11 0   | 7,580  | 11 0   | 7,500  | 11 0  | 7,390  | 10 5  | 7,150  | 10 5  | 6,870  | 10    |
| 1764   | 7500                   | 7 40                   | 8,350   | 14   | 8,270  | 13 5   | 8,200  | 13 5   | 8,110  | 13 5  | 8,020  | 13 5  | 7,830  | 13 0  | 7,610  | 13    |
| 1882   | 8000                   | 8 41                   |   |  | 8,850  | 16 5   | 8,800  | 16 5   | 8,740  | 16 5  | 8,650  | 16 0  | 8,480  | 16 0  | 8,310  | 16    |
| 2000   | 8500                   | 9 50                   |   |  | 9,470  | 20   | 9,400  | 20 0   | 9,340  | 20 0  | 9,260  | 19 5  | 9,100  | 19 5  | 8,960  | 19    |
| R.P.M. | Tip<br>Speed<br>F.P.M. | S.N.D.<br>in<br>inches | Static Pressure<br>3 1/2" Water<br>2.02 ozs. per<br>sq. inch                    | Static Pressure<br>4" Water<br>2.31 ozs. per<br>sq. inch     | Static Pressure<br>4 1/2" Water<br>2.69 ozs. per<br>sq. inch                   | Static Pressure<br>5" Water<br>3.47 ozs. per<br>sq. inch     | Static Pressure<br>6" Water<br>4.05 ozs. per<br>sq. inch                       | Static Pressure<br>7" Water<br>4.63 ozs. per<br>sq. inch     | Static Pressure<br>8" Water<br>5.2 ozs. per<br>sq. inch                        |       |  |       |  |       |  |       |
| 1293   | 5500                   | 3 98                   | 900   | 1 30   |  |  |  |  |  |       |  |       |  |       |  |       |
| 1353   | 5750                   | 4 35                   | 3,850   | 3 75   |  |  |  |  |  |       |  |       |  |       |  |       |
| 1412   | 6000                   | 4 74                   | 4,590   | 4 8  | 2,320  | 2 35   |  |  |  |       |  |       |  |       |  |       |
| 1471   | 6250                   | 5 14                   | 5,150   | 5 9  | 4,440  | 5 1  |  |  |  |       |  |       |  |       |  |       |
| 1530   | 6500                   | 5 56                   | 5,660   | 7 0  | 5,120  | 6 3  | 804  | 2 05   |  |       |  |       |  |       |  |       |
| 1589   | 6750                   | 5 99                   | 6,100   | 8 2  | 5,650  | 7 5  | 3,990  | 5 3  |  |       |  |       |  |       |  |       |
| 1648   | 7000                   | 6 45                   | 6,540   | 9 5  | 6,140  | 8 8  | 5,040  | 7 2  | 469  | 2 2   |  |       |  |       |  |       |
| 1764   | 7500                   | 7 40                   | 7,340   | 12 5   | 7,030  | 11 5   | 6,210  | 10 0   | 4,920  | 8 2   | 367  | 2 6   |  |       |  |       |
| 1882   | 8000                   | 8 41                   | 8,000   | 15 5   | 7,820  | 15 0   | 7,190  | 13 5   | 6,350  | 12 0  | 4,840  | 9 1   | 330  | 2 95  |  |       |
| 2000   | 8500                   | 9 50                   | 8,760   | 19 0   | 8,550  | 18 5   | 8,050  | 17 5   | 7,350  | 16 0  | 6,560  | 14 0  | 4,400  | 10 5  | 394  | 3 85  |
| 2120   | 9000                   | 10 67                  | 9,400   | 22 5   | 9,250  | 22 5   | 8,820  | 21 5   | 8,290  | 20 0  | 7,630  | 18 5  | 6,750  | 16    | 3,480  | 8 7   |
| 2237   | 9500                   | 11 89                  | 10,100  | 27 7   | 9,910  | 27 7   | 9,560  | 26   | 9,100  | 24 5  | 8,560  | 23    | 7,900  | 21    | 7,070  | 18 5  |
| 2352   | 10000                  | 13 17                  | 10,700  | 31   | 10,600   | 31   | 10,300   | 31   | 9,870  | 29    | 9,410  | 28    | 8,880  | 26    | 8,230  | 24    |

Single Inlet

## No. 4 Multivane Fan—Design 3

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.                                      | H. P.   | Volume C.F.M.                                     | H. P.   | Volume C.F.M.                                     | H. P.   | Volume C.F.M.                                     | H. P. | Volume C.F.M. | H. P. | Volume C.F.M. | H. P. | Volume C.F.M. | H. P. |
|--------|------------------|------------------|--|---|---|---|---|---|---|-------|---------------|-------|---------------|-------|---------------|-------|
|        |                  |                  | Static Pressure 1/4" Water .0722 ozs. per sq. inch | Static Pressure 1/4" Water .145 ozs. per sq. inch | Static Pressure 1/4" Water .217 ozs. per sq. inch | Static Pressure 1/4" Water .289 ozs. per sq. inch | Static Pressure 1/4" Water .361 ozs. per sq. inch | Static Pressure 1/4" Water .434 ozs. per sq. inch | Static Pressure 1/4" Water .506 ozs. per sq. inch |       |               |       |               |       |               |       |
| 206    | 1075             | 152              | 331  | 0 014   |   |   |   |   |   |       |               |       |               |       |               |       |
| 235    | 1200             | 189              | 1,460  | 0 062   |   |   |   |   |   |       |               |       |               |       |               |       |
| 274    | 1400             | 258              | 1,980  | 0 115   | 52  | 0 023   |   |   |   |       |               |       |               |       |               |       |
| 314    | 1600             | 337              | 2,370  | 0 180   | 1,750   | 0 130   |   |   |   |       |               |       |               |       |               |       |
| 353    | 1800             | 426              | 2,750  | 0 265   | 2,340   | 0 225   | 424   | 0 060   |   |       |               |       |               |       |               |       |
| 392    | 2000             | 526              | 3,120  | 0 365   | 2,820   | 0 335   | 2,290   | 0 27  |   |       |               |       |               |       |               |       |
| 431    | 2200             | 636              | 3,470  | 0 49  | 3,230   | 0 465   | 2,860   | 0 41  |   |       |               |       |               |       |               |       |
| 470    | 2400             | 759              | 3,820  | 0 64  | 3,620   | 0 62  | 3,340   | 0 57  |   |       |               |       |               |       |               |       |
| 510    | 2600             | 889              | 4,150  | 0 82  | 3,990   | 0 79  | 3,760   | 0 76  |   |       |               |       |               |       |               |       |
| 549    | 2800             | 1 03             |  |   | 4,360   | 1 00  | 4,100   | 0 97  |   |       |               |       |               |       |               |       |
| 588    | 3000             | 1 19             |  |   | 4,720   | 1 25  | 4,550   | 1 20  |   |       |               |       |               |       |               |       |
| 627    | 3200             | 1 35             |  |   | 5,060   | 1 50  | 4,920   | 1 50  |   |       |               |       |               |       |               |       |
| 666    | 3400             | 1 52             |  |   | 5,410   | 1 85  | 5,290   | 1 80  |   |       |               |       |               |       |               |       |
| 705    | 3600             | 1 71             |  |   | 5,750   | 2 2   | 5,630   | 2 15  |   |       |               |       |               |       |               |       |
| 745    | 3800             | 1 90             |  |   | 6,100   | 2 6   | 5,990   | 2 55  |   |       |               |       |               |       |               |       |
| 785    | 4000             | 2 11             |  |   |   |   | 6,350   | 2 95  |   |       |               |       |               |       |               |       |
| 824    | 4200             | 2 32             |  |   |   |   | 6,700   | 3 45  |   |       |               |       |               |       |               |       |
| 862    | 4400             | 2 55             |  |   |   |   | 7,020   | 4 00  |   |       |               |       |               |       |               |       |
| 901    | 4600             | 2 78             |  |   |   |   | 7,370   | 4 55  |   |       |               |       |               |       |               |       |
| 941    | 4800             | 3 03             |  |   |   |   |   |   |   |       |               |       |               |       |               |       |
| 980    | 5000             | 3 29             |  |   |   |   |   |   |   |       |               |       |               |       |               |       |
| 1030   | 5250             | 3 63             |  |   |   |   |   |   |   |       |               |       |               |       |               |       |
| 1078   | 5500             | 3 98             |  |   |   |   |   |   |   |       |               |       |               |       |               |       |
| 1128   | 5750             | 4 35             |  |   |   |   |   |   |   |       |               |       |               |       |               |       |
| 1177   | 6000             | 4 74             |  |   |   |   |   |   |   |       |               |       |               |       |               |       |
| 1225   | 6250             | 5 14             |  |   |   |   |   |   |   |       |               |       |               |       |               |       |
| 1275   | 6500             | 5 56             |  |   |   |   |   |   |   |       |               |       |               |       |               |       |
| 1323   | 6750             | 5 99             |  |   |   |   |   |   |   |       |               |       |               |       |               |       |
| 588    | 3000             | 1 19             | 1,950  | 0 53  |   |   |   |   |   |       |               |       |               |       |               |       |
| 627    | 3200             | 1 35             | 3,510  | 1 05  | 350   | 0 32  |   |   |   |       |               |       |               |       |               |       |
| 666    | 3400             | 1 52             | 4,150  | 1 40  | 3,090   | 1 05  |   |   |   |       |               |       |               |       |               |       |
| 705    | 3600             | 1 71             | 4,670  | 1 80  | 4,000   | 1 50  | 848   | .53   |   |       |               |       |               |       |               |       |
| 745    | 3800             | 1 90             | 5,180  | 2 20  | 4,640   | 1 95  | 3,800   | 1 60  | 458   | 0 55  |               |       |               |       |               |       |
| 785    | 4000             | 2 11             | 5,630  | 2 70  | 5,170   | 2 45  | 4,580   | 2 15  | 3,490   | 1 65  |               |       |               |       |               |       |
| 824    | 4200             | 2 32             | 6,050  | 3 20  | 5,670   | 2 95  | 5,200   | 2 70  | 4,500   | 2 30  | 1,320         | 0 90  |               |       |               |       |
| 862    | 4400             | 2 55             | 6,470  | 3 75  | 6,120   | 3 55  | 5,710   | 3 25  | 5,210   | 2 95  | 4,400         | 2 40  |               |       |               |       |
| 901    | 4600             | 2 78             | 6,850  | 4 30  | 6,580   | 4 1   | 6,210   | 3 9   | 5,770   | 3 6   | 5,290         | 3 25  | 827           | 1 05  |               |       |
| 941    | 4800             | 3 03             | 7,230  | 4 95  | 6,980   | 4 8   | 6,600   | 4 6   | 6,290   | 4 3   | 5,840         | 3 95  | 4,320         | 2 95  |               |       |
| 980    | 5000             | 3 29             | 7,610  | 5 6   | 7,390   | 5 5   | 7,120   | 5 3   | 6,780   | 5 1   | 6,400         | 4 8   | 5,320         | 3 9   | 723           | 1 3   |
| 1030   | 5250             | 3 63             | 8,070  | 6 5   | 7,880   | 6 4   | 7,630   | 6 3   | 7,360   | 6 0   | 7,010         | 5 7   | 6,190         | 5 0   | 4,680         | 3 8   |
| 1078   | 5500             | 3 98             | 8,530  | 7 6   | 8,350   | 7 5   | 8,140   | 7 3   | 7,880   | 7 1   | 7,600         | 6 9   | 6,900         | 6 1   | 5,920         | 5 2   |
| 1128   | 5750             | 4 35             | 8,950  | 8 7   | 8,800   | 8 6   | 8,620   | 8 5   | 8,400   | 8 3   | 8,140         | 8 0   | 7,560         | 7 4   | 6,770         | 6 6   |
| 1177   | 6000             | 4 74             | 9,440  | 9 9   | 9,270   | 9 8   | 9,110   | 9 7   | 8,900   | 9 5   | 8,680         | 9 3   | 8,150         | 8 7   | 7,480         | 7 9   |
| 1225   | 6250             | 5 14             | 9,870  | 11 5  | 9,740   | 11 0  | 9,570   | 11 0  | 9,390   | 11 0  | 9,180         | 10 5  | 8,710         | 10 0  | 8,140         | 9 4   |
| 1275   | 6500             | 5 56             | 10,300   | 12 5  | 10,100  | 12 5  | 10,000  | 12 5  | 9,870   | 12 5  | 9,660         | 12 0  | 9,270         | 11 5  | 8,790         | 11 0  |
| 1323   | 6750             | 5 99             | 10,700   | 14 5  | 10,600  | 14 0  | 10,500  | 14 0  | 10,300  | 14 0  | 10,200        | 13 5  | 9,790         | 13 5  | 9,350         | 12 5  |
| 1372   | 7000             | 6 45             | 11,200   | 16  | 11,100  | 16 0  | 10,900  | 16 0  | 10,800  | 15 5  | 10,600        | 15 5  | 10,300        | 15    | 9,900         | 14 5  |
| 1471   | 7500             | 7 40             | 12,000   | 20  | 11,900  | 19 5  | 11,800  | 19 5  | 11,700  | 19 0  | 11,600        | 19 0  | 11,300        | 19    | 11,000        | 18 5  |
| 1569   | 8000             | 8 41             |  |   | 12,800  | 24  | 12,700  | 23 5  | 12,600  | 23 5  | 12,500        | 23 5  | 12,200        | 23    | 12,000        | 23    |
| 1668   | 8500             | 9 50             |  |   | 13,700  | 29  | 13,500  | 28 5  | 13,600  | 28    | 13,400        | 28    | 13,100        | 28    | 12,900        | 28    |
| 1078   | 5500             | 3 98             | 1,300  | 1 85  |   |   |   |   |   |       |               |       |               |       |               |       |
| 1128   | 5750             | 4 35             | 5,550  | 5 4   |   |   |   |   |   |       |               |       |               |       |               |       |
| 1177   | 6000             | 4 74             | 6,610  | 6 9   | 3,340   | 3 4   |   |   |   |       |               |       |               |       |               |       |
| 1225   | 6250             | 5 14             | 7,420  | 8 5   | 6,400   | 7 3   |   |   |   |       |               |       |               |       |               |       |
| 1275   | 6500             | 5 56             | 8,160  | 10 0  | 7,390   | 9 1   | 1,160   | 2 95  |   |       |               |       |               |       |               |       |
| 1323   | 6750             | 5 99             | 8,790  | 12 0  | 8,150   | 11 0  | 5,750   | 7 6   |   |       |               |       |               |       |               |       |
| 1372   | 7000             | 6 45             | 9,420  | 13 5  | 8,850   | 12 5  | 7,250   | 10 5  | 675   | 3 15  |               |       |               |       |               |       |
| 1471   | 7500             | 7 40             | 10,600   | 17 5  | 10,100  | 17 0  | 8,940   | 14 5  | 7,090   | 11 5  | 529           | 3 75  |               |       |               |       |
| 1569   | 8000             | 8 41             | 11,600   | 22  | 11,300  | 21 5  | 10,400  | 19 5  | 9,160   | 17 0  | 6,970         | 13    | 475           | 4 25  |               |       |
| 1668   | 8500             | 9 50             | 12,600   | 27  | 12,300  | 26  | 11,600  | 25  | 10,600  | 22 5  | 9,460         | 20    | 6,350         | 15    | 568           | 5 5   |
| 1764   | 9000             | 10 67            | 13,500   | 32  | 13,300  | 32  | 12,700  | 31  | 12,000  | 29    | 11,000        | 26    | 9,730         | 23    | 5,010         | 12 5  |
| 1862   | 9500             | 11 89            | 14,500   | 39  | 14,300  | 38  | 13,800  | 37  | 13,100  | 35    | 12,300        | 33    | 11,400        | 30    | 10,200        | 27    |
| 1960   | 10000            | 13 17            | 15,400   | 45  | 15,200  | 45  | 14,800  | 44  | 14,200  | 42    | 13,600        | 41    | 12,800        | 38    | 11,800        | 35    |

| Single Inlet   |                  |                  | No. 5 Multivane Fan—Design 3                       |       |   |       |   |       |   |       |   |       | Single Width  |       |   |       |
|--|------------------|------------------|--|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|
| When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances |                  |                  |  |       |   |       |   |       |   |       |   |       |   |       |   |       |
| R.P.M.   | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.                                      | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. |
|  |                  |                  | Static Pressure 1/2" Water .0722 ozs. per sq. inch |       | Static Pressure 3/4" Water .145 ozs. per sq. inch   |       | Static Pressure 1" Water .217 ozs. per sq. inch     |       | Static Pressure 1 1/4" Water .289 ozs. per sq. inch |       | Static Pressure 1 1/2" Water .361 ozs. per sq. inch |       | Static Pressure 1 3/4" Water .434 ozs. per sq. inch |       | Static Pressure 2" Water .506 ozs. per sq. inch     |       |
| 176  | 1075             | 152              | 451  | 0 019 |   |       |   |       |   |       |   |       |   |       |   |       |
| 202  | 1200             | 189              | 1,990  | 0 084 |   |       |   |       |   |       |   |       |   |       |   |       |
| 235  | 1100             | 258              | 2,670  | 0 155 | 71  | 0 032 |   |       |   |       |   |       |   |       |   |       |
| 269  | 1600             | 337              | 5,240  | 0 245 | 2,390   | 0 180 |   |       |   |       |   |       |   |       |   |       |
| 302  | 1800             | 426              | 3,750  | 0 390 | 3,190   | 0 305 | 578   | 0 089 |   |       |   |       |   |       |   |       |
| 336  | 2000             | 526              | 4,250  | 0 495 | 3,840   | 0 46  | 3,120   | 0 365 | 162   | 0 09  |   |       |   |       |   |       |
| 370  | 2200             | 636              | 4,740  | 0 67  | 4,310   | 0 63  | 3,900   | 0 50  | 3,040   | 0 43  |   |       |   |       |   |       |
| 404  | 2100             | 759              | 5,210  | 0 88  | 4,930   | 0 84  | 4,550   | 0 78  | 3,980   | 0 67  | 56  | 0 11  |   |       |   |       |
| 437  | 2600             | 889              | 5,660  | 1 1   | 5,440   | 1 10  | 5,130   | 1 05  | 4,700   | 0 94  | 4,100   | 0 81  | 2,940   | 0 60  |   |       |
| 470  | 2800             | 1 03             |  |       | 5,940   | 1 35  | 5,680   | 1 35  | 5,450   | 1 25  | 4,900   | 1 15  | 4,170   | 0 96  | 2,960   | 0 75  |
| 504  | 3000             | 1 19             |  |       | 6,440   | 1 70  | 6,210   | 1 65  | 5,920   | 1 60  | 5,500   | 1 50  | 5,100   | 1 35  | 4,510   | 1 20  |
| 538  | 3200             | 1 35             |  |       | 6,900   | 2 05  | 6,710   | 2 00  | 6,480   | 2 00  | 6,170   | 1 90  | 5,810   | 1 75  | 5,360   | 1 65  |
| 571  | 3100             | 1 52             |  |       | 7,390   | 2 50  | 7,200   | 2 45  | 6,990   | 2 40  | 6,760   | 2 35  | 6,480   | 2 20  | 6,100   | 2 10  |
| 605  | 3600             | 1 71             |  |       | 7,840   | 3 00  | 7,670   | 2 90  | 7,510   | 2 90  | 7,310   | 2 80  | 7,030   | 2 70  | 6,750   | 2 60  |
| 639  | 3800             | 1 90             |  |       | 8,320   | 3 55  | 8,170   | 3 45  | 7,990   | 3 40  | 7,820   | 3 35  | 7,600   | 3 25  | 7,340   | 3 15  |
| 672  | 4000             | 2 11             |  |       |   |       | 8,650   | 4 05  | 8,500   | 4 00  | 8,320   | 3 95  | 8,150   | 3 90  | 7,890   | 3 80  |
| 705  | 4200             | 2 32             |  |       |   |       | 9,130   | 4 75  | 8,950   | 4 65  | 8,830   | 4 6   | 8,680   | 4 55  | 8,470   | 4 45  |
| 740  | 4400             | 2 55             |  |       |   |       | 9,580   | 5 5   | 9,460   | 5 4   | 9,340   | 5 3   | 9,150   | 5 2   | 9,000   | 5 2   |
| 773  | 4600             | 2 78             |  |       |   |       | 10,100  | 6 3   | 9,950   | 6 1   | 9,810   | 6 1   | 9,660   | 6 0   | 9,526   | 5 9   |
| 807  | 4800             | 3 03             |  |       |   |       |   |       | 10,400  | 7 0   | 10,300  | 7 0   | 10,200  | 6 9   | 10,000  | 6 8   |
| 840  | 5000             | 3 29             |  |       |   |       |   |       | 10,900  | 8 0   | 10,800  | 7 9   | 10,600  | 7 8   | 10,500  | 7 7   |
| 882  | 5250             | 3 63             |  |       |   |       |   |       | 11,500  | 9 3   | 11,400  | 9 2   | 11,300  | 9 1   | 11,100  | 9 0   |
| 925  | 5500             | 3 98             |  |       |   |       |   |       |   |       | 12,000  | 10 5  | 11,800  | 10 5  | 11,700  | 10 5  |
| 966  | 5750             | 4 35             |  |       |   |       |   |       |   |       | 12,600  | 12    | 12,500  | 12 0  | 12,400  | 12 0  |
| 1009   | 6000             | 4 74             |  |       |   |       |   |       |   |       | 13,150  | 14    | 13,050  | 14 0  | 13,000  | 13 5  |
| 1050   | 6250             | 5 14             |  |       |   |       |   |       |   |       |   |       | 13,650  | 15 5  | 13,550  | 15 5  |
| 1092   | 6500             | 5 56             |  |       |   |       |   |       |   |       |   |       | 14,200  | 17 5  | 14,100  | 17 5  |
| 1134   | 6750             | 5 99             |  |       |   |       |   |       |   |       |   |       |   |       | 14,700  | 19 5  |
| R.P.M.   | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 ozs. per sq. inch    |       | Static Pressure 1 1/4" Water .723 ozs. per sq. inch |       | Static Pressure 1 1/2" Water .878 ozs. per sq. inch |       | Static Pressure 1 3/4" Water 1.01 ozs. per sq. inch |       | Static Pressure 2" Water 1.16 ozs. per sq. inch     |       | Static Pressure 2 1/4" Water 1.45 ozs. per sq. inch |       | Static Pressure 2 1/2" Water 1.73 ozs. per sq. inch |       |
| 501  | 3000             | 1 19             | 2,060  | 0 72  |   |       |   |       |   |       |   |       |   |       |   |       |
| 538  | 3200             | 1 35             | 4,780  | 1 45  | 477   | 0 435 |   |       |   |       |   |       |   |       |   |       |
| 571  | 3100             | 1 52             | 5,650  | 1 90  | 4,210   | 1 45  |   |       |   |       |   |       |   |       |   |       |
| 605  | 3600             | 1 71             | 6,320  | 2 45  | 5,460   | 2 05  | 1,160   | 0 72  |   |       |   |       |   |       |   |       |
| 639  | 3800             | 1 90             | 7,070  | 3 05  | 6,320   | 2 70  | 5,190   | 2 20  |   |       |   |       |   |       |   |       |
| 672  | 4000             | 2 11             | 7,670  | 3 65  | 7,050   | 3 35  | 6,250   | 2 95  | 4,750   | 2 25  |   |       |   |       |   |       |
| 705  | 4200             | 2 32             | 8,250  | 4 35  | 7,740   | 4 05  | 7,060   | 3 70  | 6,150   | 3 15  | 1,810   | 1 25  |   |       |   |       |
| 740  | 4400             | 2 55             | 8,830  | 5 1   | 8,850   | 4 8   | 7,790   | 4 45  | 7,100   | 4 05  | 6,000   | 3 30  |   |       |   |       |
| 773  | 4600             | 2 78             | 9,330  | 5 9   | 8,950   | 5 6   | 8,470   | 5 8   | 7,870   | 4 95  | 7,200   | 4 45  | 1,130   | 1 45  |   |       |
| 807  | 4800             | 3 03             | 9,860  | 6 7   | 9,510   | 6 5   | 9,100   | 6 2   | 8,580   | 5 9   | 7,960   | 5 4   | 5,900   | 4 0   |   |       |
| 840  | 5000             | 3 29             | 10,400   | 7 7   | 10,100  | 7 5   | 9,700   | 7 3   | 9,250   | 6 9   | 8,720   | 6 5   | 7,260   | 5 3   | 986   | 1 75  |
| 882  | 5250             | 3 63             | 11,000   | 8 9   | 10,800  | 8 8   | 10,400  | 8 6   | 10,000  | 8 2   | 9,560   | 7 8   | 8,440   | 6 8   | 6,390   | 5 2   |
| 925  | 5500             | 3 98             | 11,600   | 10 5  | 11,400  | 10 0  | 11,100  | 10 0  | 10,800  | 9 7   | 10,400  | 9 4   | 9,410   | 8 4   | 8,060   | 7 1   |
| 966  | 5750             | 4 35             | 12,200   | 12 0  | 12,000  | 11 5  | 11,800  | 11 5  | 11,500  | 11 5  | 11,100  | 11 0  | 10,300  | 10 0  | 9,230   | 8 9   |
| 1009   | 6000             | 4 74             | 12,900   | 13 5  | 12,700  | 13 5  | 12,400  | 13 5  | 12,100  | 13    | 11,800  | 12 5  | 11,100  | 12 0  | 10,200  | 11 0  |
| 1050   | 6250             | 5 14             | 13,500   | 15 5  | 13,300  | 15 0  | 13,100  | 15 0  | 12,800  | 15    | 12,500  | 14 5  | 11,900  | 14 0  | 11,100  | 13 0  |
| 1092   | 6500             | 5 56             | 14,000   | 17 5  | 13,800  | 17 0  | 13,700  | 17 0  | 13,500  | 17    | 13,200  | 16 5  | 12,700  | 16 0  | 12,000  | 15 0  |
| 1134   | 6750             | 5 99             | 14,600   | 19 5  | 14,500  | 19 5  | 14,300  | 19 0  | 14,100  | 19    | 13,900  | 18 5  | 13,300  | 18 0  | 12,700  | 17 5  |
| 1177   | 7000             | 6 45             | 15,200   | 22    | 15,100  | 21 5  | 14,900  | 21 5  | 14,700  | 21    | 14,500  | 21    | 14,000  | 20 5  | 13,500  | 19 5  |
| 1260   | 7500             | 7 40             | 16,400   | 27    | 16,300  | 27    | 16,100  | 27    | 15,900  | 26    | 15,800  | 26    | 15,400  | 26    | 15,000  | 25    |
| 1314   | 8000             | 8 41             |  |       | 17,400  | 33    | 17,300  | 32    | 17,200  | 32    | 17,000  | 32    | 16,700  | 31    | 16,300  | 31    |
| 1430   | 8500             | 9 50             |  |       | 18,600  | 40    | 18,500  | 39    | 18,300  | 39    | 18,200  | 38    | 17,900  | 38    | 17,600  | 38    |
| R.P.M.   | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 3" Water 2.62 ozs. per sq. inch    |       | Static Pressure 4" Water 2.31 ozs. per sq. inch     |       | Static Pressure 5" Water 2.69 ozs. per sq. inch     |       | Static Pressure 6" Water 3.47 ozs. per sq. inch     |       | Static Pressure 7" Water 4.05 ozs. per sq. inch     |       | Static Pressure 8" Water 4.63 ozs. per sq. inch     |       | Static Pressure 9" Water 5.2 ozs. per sq. inch      |       |
| 925  | 5500             | 3 98             | 1,770  | 2 55  |   |       |   |       |   |       |   |       |   |       |   |       |
| 966  | 5750             | 4 35             | 7,560  | 7 3   |   |       |   |       |   |       |   |       |   |       |   |       |
| 1009   | 6000             | 4 74             | 9,020  | 9 5   | 4,550   | 4 6   |   |       |   |       |   |       |   |       |   |       |
| 1050   | 6250             | 5 14             | 10,100   | 11 5  | 8,730   | 10 0  |   |       |   |       |   |       |   |       |   |       |
| 1092   | 6500             | 5 56             | 11,100   | 14 0  | 10,100  | 12 5  | 1,580   | 4 0   |   |       |   |       |   |       |   |       |
| 1134   | 6750             | 5 99             | 12,000   | 16 0  | 11,100  | 15 0  | 7,850   | 10 5  |   |       |   |       |   |       |   |       |
| 1177   | 7000             | 6 45             | 12,900   | 18 5  | 12,100  | 17 5  | 9,900   | 14    | 920   | 4 3   |   |       |   |       |   |       |
| 1260   | 7500             | 7 40             | 14,400   | 24    | 13,800  | 23    | 12,200  | 20    | 9,060   | 16 0  | 720   | 5 1   |   |       |   |       |
| 1314   | 8000             | 8 41             | 15,900   | 30    | 15,400  | 29    | 14,100  | 27    | 12,500  | 23 5  | 9,500   | 18    | 648   | 5 8   |   |       |
| 1430   | 8500             | 9 50             | 17,200   | 37    | 16,800  | 36    | 15,800  | 34    | 14,500  | 31    | 12,900  | 27    | 8,650   | 20 5  | 774   | 7 5   |
| 1511   | 9000             | 10 67            | 18,500   | 44    | 18,200  | 44    | 17,300  | 42    | 16,300  | 40    | 15,000  | 36    | 13,300  | 31    | 6,830   | 17    |
| 1598   | 9500             | 11 89            | 19,800   | 52    | 19,500  | 52    | 18,800  | 50    | 17,900  | 48    | 16,800  | 45    | 15,500  | 41    | 13,900  | 37    |
| 1680   | 10000            | 13 17            | 21,000   | 62    | 20,800  | 62    | 20,200  | 60    | 19,400  | 58    | 18,500  | 56    | 17,500  | 52    | 16,200  | 47    |

Single Inlet

## No. 6 Multivane Fan — Design 3

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                     | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. |
|--------|------------------|------------------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|
|        |                  |                  | Static Pressure 1/4" Water .0722 ozs. per sq. inch  |       | Static Pressure 1/4" Water .145 ozs. per sq. inch   |       | Static Pressure 1/4" Water .217 ozs. per sq. inch   |       | Static Pressure 1/4" Water .289 ozs. per sq. inch   |       | Static Pressure 1/4" Water .361 ozs. per sq. inch |       | Static Pressure 1/4" Water .434 ozs. per sq. inch   |       | Static Pressure 1/4" Water .506 ozs. per sq. inch   |       |
| 154    | 1075             | .152             | 589   | 0 025 |   |       |   |       |   |       |   |       |   |       |   |       |
| 178    | 1200             | .189             | 2,600   | 0 110 |   |       |   |       |   |       |   |       |   |       |   |       |
| 206    | 1400             | .258             | 3,480   | 0 205 |   |       |   |       |   |       |   |       |   |       |   |       |
| 235    | 1600             | .337             | 4,220   | 0 32  | 3,110   | 0 235 |   |       |   |       |   |       |   |       |   |       |
| 265    | 1800             | .426             | 4,890   | 0 47  | 4,160   | 0 40  | 754   | 0 115 |   |       |   |       |   |       |   |       |
| 294    | 2000             | .526             | 5,540   | 0 65  | 5,000   | 0 60  | 4,070   | 0 475 | 211   | 0 12  |   |       |   |       |   |       |
| 324    | 2200             | .636             | 6,170   | 0 87  | 5,750   | 0 83  | 5,080   | 0 73  | 3,970   | 0 56  | 73  | 0 145 |   |       |   |       |
| 353    | 2400             | .759             | 6,800   | 1 15  | 6,430   | 1 10  | 5,940   | 1 00  | 5,200   | 0 88  | 3,870   | 0 60  | 55  | 0 185 |   |       |
| 382    | 2600             | .889             | 7,390   | 1 45  |   |       |   |       |   |       |   |       |   |       |   |       |
| 412    | 2800             | 1 03             |   |       | 7,100   | 1 40  | 6,700   | 1 35  | 6,140   | 1 25  | 5,350   | 1 05  | 3,830   | 0 78  |   |       |
| 441    | 3000             | 1 19             |   |       | 7,750   | 1 80  | 7,400   | 1 75  | 6,970   | 1 65  | 6,390   | 1 50  | 5,450   | 1 25  | 3,890   | 0 98  |
| 470    | 3200             | 1 35             |   |       | 8,400   | 2 20  | 8,100   | 2 15  | 7,720   | 2 05  | 7,250   | 1 95  | 6,640   | 1 75  | 5,890   | 1 55  |
| 500    | 3400             | 1 52             |   |       | 9,000   | 2 70  | 8,760   | 2 65  | 8,450   | 2 60  | 8,050   | 2 45  | 7,590   | 2 30  | 7,000   | 2 15  |
| 529    | 3600             | 1 71             |   |       | 9,640   | 3 25  | 9,400   | 3 2   | 9,120   | 3 10  | 8,800   | 3 10  | 8,450   | 2 90  | 7,950   | 2 70  |
| 559    | 3800             | 1 90             |   |       | 10,200  | 3 9   | 10,000  | 3 8   | 9,800   | 3 75  | 9,540   | 3 70  | 9,170   | 3 55  | 8,800   | 3 40  |
| 588    | 4000             | 2 11             |   |       | 10,900  | 4 6   | 10,700  | 4 5   | 10,400  | 4 4   | 10,200  | 4 35  | 9,970   | 4 25  | 9,570   | 4 15  |
| 618    | 4200             | 2 32             |   |       | 11,300  | 5 3   | 11,100  | 5 3   | 11,100  | 5 2   | 10,900  | 5 2   | 10,600  | 5 1   | 10,300  | 4 95  |
| 647    | 4400             | 2 55             |   |       | 11,900  | 6 2   | 11,700  | 6 0   | 11,700  | 6 0   | 11,500  | 6 0   | 11,300  | 5 9   | 11,100  | 5 8   |
| 676    | 4600             | 2 78             |   |       | 12,500  | 7 2   | 12,400  | 7 0   | 12,400  | 7 0   | 12,200  | 6 9   | 11,900  | 6 8   | 11,800  | 6 7   |
| 706    | 4800             | 3 03             |   |       | 13,100  | 8 1   | 13,000  | 8 0   | 13,000  | 8 0   | 12,800  | 7 9   | 12,600  | 7 8   | 12,400  | 7 8   |
| 735    | 5000             | 3 29             |   |       |   |       |   |       | 13,600  | 9 1   | 13,400  | 9 1   | 13,300  | 9 0   | 13,100  | 8 9   |
| 772    | 5250             | 3 63             |   |       |   |       |   |       | 14,200  | 10 5  | 14,100  | 10 5  | 13,900  | 10 0  | 13,700  | 10 0  |
| 800    | 5500             | 3 98             |   |       |   |       |   |       | 15,000  | 12    |   |       | 14,700  | 12 0  | 14,500  | 11 5  |
| 846    | 5750             | 4 35             |   |       |   |       |   |       |   |       | 15,600  | 14    | 15,400  | 13 5  | 15,300  | 13 5  |
| 882    | 6000             | 4 74             |   |       |   |       |   |       |   |       | 16,300  | 16    | 16,100  | 15 5  | 16,100  | 15 5  |
| 919    | 6250             | 5 14             |   |       |   |       |   |       |   |       | 17,100  | 18    | 17,000  | 18 0  | 16,900  | 18    |
| 955    | 6500             | 5 56             |   |       |   |       |   |       |   |       |   |       | 17,800  | 20 5  | 17,700  | 20    |
| 992    | 6750             | 5 99             |   |       |   |       |   |       |   |       |   |       | 18,600  | 23    | 18,400  | 23    |
|        |                  |                  |   |       |   |       |   |       |   |       |   |       |   |       | 19,200  | 26    |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 ozs. per sq. inch     |       | Static Pressure 1 1/4" Water .723 ozs. per sq. inch |       | Static Pressure 1 1/2" Water .878 ozs. per sq. inch |       | Static Pressure 1 3/4" Water 1.01 ozs. per sq. inch |       | Static Pressure 2" Water 1.16 ozs. per sq. inch   |       | Static Pressure 2 1/4" Water 1.45 ozs. per sq. inch |       | Static Pressure 2 1/2" Water 1.73 ozs. per sq. inch |       |
| 441    | 3000             | 1 19             | 3,460   | 0 94  |   |       |   |       |   |       |   |       |   |       |   |       |
| 470    | 3200             | 1 35             | 6,250   | 1 85  | 620   | 0 57  |   |       |   |       |   |       |   |       |   |       |
| 500    | 3400             | 1 52             | 7,370   | 2 50  | 5,500   | 1 85  |   |       |   |       |   |       |   |       |   |       |
| 529    | 3600             | 1 71             | 8,310   | 3 20  | 7,130   | 2 70  | 1,510   | 0 93  |   |       |   |       |   |       |   |       |
| 559    | 3800             | 1 90             | 9,220   | 3 95  | 8,250   | 3 50  | 6,760   | 2 9   | 815   | 0 97  |   |       |   |       |   |       |
| 588    | 4000             | 2 11             | 10,000  | 4 8   | 9,200   | 4 35  | 8,140   | 3 8   | 6,200   | 2 90  |   |       |   |       |   |       |
| 618    | 4200             | 2 32             | 10,800  | 5 7   | 10,100  | 5 8   | 9,240   | 4 8   | 8,010   | 4 15  | 2,380   | 1 6   |   |       |   |       |
| 647    | 4400             | 2 55             | 11,500  | 6 7   | 10,900  | 6 3   | 10,200  | 5 8   | 9,260   | 5 3   | 7,820   | 4 3   |   |       |   |       |
| 676    | 4600             | 2 78             | 12,200  | 7 7   | 11,700  | 7 3   | 11,100  | 6 9   | 10,300  | 6 4   | 9,400   | 5 8   | 1,470   | 1 85  |   |       |
| 706    | 4800             | 3 03             | 12,900  | 8 8   | 12,400  | 8 5   | 11,900  | 8 1   | 11,200  | 7 6   | 10,400  | 7 0   | 7,690   | 5 2   |   |       |
| 735    | 5000             | 3 29             | 13,500  | 10 0  | 13,200  | 9 8   | 12,700  | 9 5   | 12,100  | 9 0   | 11,400  | 8 5   | 9,470   | 6 9   | 1,290   | 2 3   |
| 772    | 5250             | 3 63             | 14,400  | 11 5  | 14,000  | 11 5  | 13,800  | 11 0  | 13,100  | 10 5  | 12,500  | 10 0  | 11,000  | 8 9   | 8,340   | 6 8   |
| 800    | 5500             | 3 98             | 15,200  | 13 5  | 14,900  | 13 5  | 14,500  | 13 0  | 14,000  | 12 5  | 13,500  | 12 0  | 12,300  | 11 0  | 10,500  | 9 3   |
| 846    | 5750             | 4 35             | 15,900  | 15 5  | 15,700  | 15 5  | 15,400  | 15 0  | 15,000  | 15 0  | 14,500  | 14 5  | 13,500  | 13 0  | 12,000  | 11 5  |
| 882    | 6000             | 4 74             | 16,800  | 17 5  | 16,500  | 17 5  | 16,200  | 17 5  | 15,800  | 17 0  | 15,400  | 16 5  | 14,500  | 15 5  | 13,300  | 14 0  |
| 919    | 6250             | 5 14             | 17,600  | 20 0  | 17,300  | 20 0  | 17,000  | 19 5  | 16,700  | 19 5  | 16,300  | 19 0  | 15,500  | 18 0  | 14,500  | 17 0  |
| 955    | 6500             | 5 56             | 18,300  | 22 5  | 18,000  | 22 5  | 17,800  | 22    | 17,600  | 22 0  | 17,200  | 21 5  | 16,600  | 21 0  | 15,600  | 19 5  |
| 992    | 6750             | 5 99             | 19,100  | 25    | 18,900  | 25    | 18,600  | 25    | 18,400  | 24 5  | 18,100  | 24 5  | 17,400  | 23 5  | 16,600  | 22 5  |
| 1030   | 7000             | 6 45             | 19,900  | 28    | 19,700  | 28    | 19,400  | 28    | 19,200  | 28    | 18,900  | 27    | 18,300  | 27    | 17,600  | 26    |
| 1103   | 7500             | 7 40             | 21,400  | 35    | 21,200  | 35    | 21,000  | 35    | 20,800  | 34    | 20,600  | 34    | 20,100  | 33    | 19,500  | 33    |
| 1178   | 8000             | 8 41             |   |       | 22,700  | 42    | 22,600  | 42    | 22,400  | 42    | 22,200  | 41    | 21,700  | 41    | 21,300  | 41    |
| 1250   | 8500             | 9 50             |   |       | 24,300  | 52    | 24,100  | 50    | 23,900  | 50    | 23,800  | 50    | 23,300  | 50    | 23,000  | 49    |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 3 1/2" Water 2.02 ozs. per sq. inch |       | Static Pressure 4" Water 2.31 ozs. per sq. inch     |       | Static Pressure 5" Water 2.89 ozs. per sq. inch     |       | Static Pressure 6" Water 3.47 ozs. per sq. inch     |       | Static Pressure 7" Water 4.05 ozs. per sq. inch   |       | Static Pressure 8" Water 4.63 ozs. per sq. inch     |       | Static Pressure 9" Water 5.2 ozs. per sq. inch      |       |
| 809    | 5500             | 3 98             | 2,300   | 3 35  |   |       |   |       |   |       |   |       |   |       |   |       |
| 846    | 5750             | 4 35             | 9,860   | 9 6   |   |       |   |       |   |       |   |       |   |       |   |       |
| 882    | 6000             | 4 74             | 11,800  | 12 5  | 5,940   | 6 0   |   |       |   |       |   |       |   |       |   |       |
| 919    | 6250             | 5 14             | 13,200  | 15 0  | 11,400  | 13 0  |   |       |   |       |   |       |   |       |   |       |
| 955    | 6500             | 5 56             | 14,500  | 18 0  | 13,100  | 16 5  | 2,060   | 5 2   |   |       |   |       |   |       |   |       |
| 992    | 6750             | 5 99             | 15,600  | 21 0  | 14,500  | 19 5  | 10,200  | 13 5  |   |       |   |       |   |       |   |       |
| 1030   | 7000             | 6 45             | 16,800  | 24 5  | 15,700  | 22 5  | 12,900  | 18 5  | 1,200   | 5 6   |   |       |   |       |   |       |
| 1103   | 7500             | 7 40             | 18,800  | 32    | 18,000  | 30    | 15,900  | 26    | 12,600  | 21    | 940   | 6 7   |   |       |   |       |
| 1178   | 8000             | 8 41             | 20,600  | 40    | 20,000  | 38    | 18,400  | 35    | 16,300  | 30    | 12,400  | 23 5  |   |       |   |       |
| 1250   | 8500             | 9 50             | 22,400  | 48    | 21,900  | 47    | 20,600  | 44    | 18,800  | 40    | 16,800  | 35    | 845   | 7 5   | 1,010   | 9 8   |
| 1324   | 9000             | 10 67            | 24,100  | 58    | 23,700  | 58    | 22,600  | 54    | 21,200  | 52    | 19,500  | 47    | 17,300  | 41    | 8,900   | 22    |
| 1398   | 9500             | 11 89            | 25,800  | 68    | 25,400  | 68    | 24,500  | 66    | 23,300  | 62    | 21,900  | 58    | 20,200  | 54    | 18,100  | 48    |
| 1470   | 10000            | 13 17            | 27,400  | 80    | 27,100  | 80    | 26,300  | 78    | 25,300  | 76    | 24,100  | 72    | 22,800  | 68    | 21,100  | 62    |

### Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| Table 1. Static Pressures in Piping and Density 1.075 lbs. per cubic foot Against Continuously Maintained Resistances |                  |                  |  |   |   |   |   |   |   |  |  |  |  |  |  |
|---|------------------|------------------|--|---|---|---|---|---|---|--|--|--|--|--|--|
| R.P.M.  | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M. H. P. Static Pressure 1/2" Water .0722 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1/4" Water .145 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 3/8" Water .217 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1/2" Water .289 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 5/8" Water .361 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 3/4" Water .434 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 7/8" Water .506 ozs. per sq. inch |  |  |  |  |  |  |
| 137   | 1075             | 152              | 745  | 0.032   |   |   |   |   |   |  |  |  |  |  |  |
| 157   | 1200             | 189              | 3,280  | 0.140   |   |   |   |   |   |  |  |  |  |  |  |
| 183   | 1400             | 258              | 4,400  | 0.260   |   |   |   |   |   |  |  |  |  |  |  |
| 209   | 1600             | 337              | 5,340  | 0.405   | 117   | 0.053   |   |   |   |  |  |  |  |  |  |
| 235   | 1800             | 426              | 6,180  | 0.59  | 5,260   | 0.50  |   |   |   |  |  |  |  |  |  |
| 262   | 2000             | 526              | 7,000  | 0.82  | 6,330   | 0.76  | 952   | 0.15  |   |  |  |  |  |  |  |
| 288   | 2200             | 636              | 7,800  | 1.10  | 7,260   | 1.05  | 5,150   | 0.60  |   |  |  |  |  |  |  |
| 314   | 2400             | 759              | 8,590  | 1.45  | 8,130   | 1.40  | 6,420   | 0.92  |   |  |  |  |  |  |  |
| 340   | 2600             | 889              | 9,340  | 1.85  | 8,960   | 1.80  | 7,500   | 1.30  |   |  |  |  |  |  |  |
| 366   | 2800             | 1 03             |  |   | 9,800   | 2.25  | 5,010   | 0.71  |   |  |  |  |  |  |  |
| 392   | 3000             | 1 19             |  |   | 10,600  | 2.80  | 6,570   | 1.10  |   |  |  |  |  |  |  |
| 418   | 3200             | 1 35             |  |   | 11,400  | 3.40  |   |   |   |  |  |  |  |  |  |
| 444   | 3400             | 1 52             |  |   | 12,200  | 4.10  |   |   |   |  |  |  |  |  |  |
| 470   | 3600             | 1 71             |  |   | 12,900  | 4.95  |   |   |   |  |  |  |  |  |  |
| 496   | 3800             | 1 90             |  |   | 13,700  | 5.8   |   |   |   |  |  |  |  |  |  |
| 523   | 4000             | 2 11             |  |   |   |   |   |   |   |  |  |  |  |  |  |
| 549   | 4200             | 2 32             |  |   |   |   |   |   |   |  |  |  |  |  |  |
| 575   | 4400             | 2 55             |  |   |   |   |   |   |   |  |  |  |  |  |  |
| 601   | 4600             | 2 78             |  |   |   |   |   |   |   |  |  |  |  |  |  |
| 627   | 4800             | 3 03             |  |   |   |   |   |   |   |  |  |  |  |  |  |
| 654   | 5000             | 3 29             |  |   |   |   |   |   |   |  |  |  |  |  |  |
| 686   | 5250             | 3 63             |  |   |   |   |   |   |   |  |  |  |  |  |  |
| 719   | 5500             | 3 98             |  |   |   |   |   |   |   |  |  |  |  |  |  |
| 751   | 5750             | 4 35             |  |   |   |   |   |   |   |  |  |  |  |  |  |
| 785   | 6000             | 4 74             |  |   |   |   |   |   |   |  |  |  |  |  |  |
| 816   | 6250             | 5 14             |  |   |   |   |   |   |   |  |  |  |  |  |  |
| 850   | 6500             | 5 56             |  |   |   |   |   |   |   |  |  |  |  |  |  |
| 882   | 6750             | 5 99             |  |   |   |   |   |   |   |  |  |  |  |  |  |
| 392   | 3000             | 1 19             | 4,380  | 1 20  |   |   |   |   |   |  |  |  |  |  |  |
| 418   | 3200             | 1 35             | 7,890  | 2 35  | 788   | 0 72  |   |   |   |  |  |  |  |  |  |
| 444   | 3400             | 1 52             | 9,320  | 3 15  | 6,950   | 2 35  |   |   |   |  |  |  |  |  |  |
| 470   | 3600             | 1 71             | 10,500   | 4 0   | 9,010   | 3 4   | 1,910   | 1 20  |   |  |  |  |  |  |  |
| 496   | 3800             | 1 90             | 11,700   | 5 0   | 10,400  | 4 4   | 8,550   | 3 60  |   |  |  |  |  |  |  |
| 523   | 4000             | 2 11             | 12,700   | 6 0   | 11,600  | 5 5   | 10,300  | 4 86  |   |  |  |  |  |  |  |
| 549   | 4200             | 2 32             | 13,600   | 7 1   | 12,800  | 6 7   | 11,700  | 5 2   |   |  |  |  |  |  |  |
| 575   | 4400             | 2 55             | 14,000   | 8 4   | 13,800  | 7 9   | 12,900  | 6 6   |   |  |  |  |  |  |  |
| 601   | 4600             | 2 78             | 15,400   | 9 7   | 14,800  | 9 3   | 14,000  | 8 8   |   |  |  |  |  |  |  |
| 627   | 4800             | 3 03             | 16,300   | 11 0  | 15,700  | 11 0  | 15,000  | 10 5  |   |  |  |  |  |  |  |
| 654   | 5000             | 3 29             | 17,100   | 12 5  | 16,600  | 12 5  | 16,000  | 12 0  |   |  |  |  |  |  |  |
| 686   | 5250             | 3 63             | 18,200   | 14 5  | 17,700  | 14 5  | 17,200  | 14 0  |   |  |  |  |  |  |  |
| 719   | 5500             | 3 98             | 19,200   | 17 0  | 18,800  | 17 0  | 18,300  | 16 5  |   |  |  |  |  |  |  |
| 751   | 5750             | 4 35             | 20,100   | 19 5  | 19,800  | 19 5  | 19,400  | 19  |   |  |  |  |  |  |  |
| 785   | 6000             | 4 74             | 21,200   | 22 5  | 20,900  | 22  | 20,500  | 21 5  |   |  |  |  |  |  |  |
| 816   | 6250             | 5 14             | 22,200   | 25  | 21,900  | 25  | 21,500  | 24 5  |   |  |  |  |  |  |  |
| 850   | 6500             | 5 56             | 23,200   | 29  | 22,800  | 28  | 22,500  | 28  |   |  |  |  |  |  |  |
| 882   | 6750             | 5 99             | 24,200   | 32  | 23,900  | 32  | 23,600  | 31  |   |  |  |  |  |  |  |
| 915   | 7000             | 6 45             | 25,100   | 36  | 24,900  | 36  | 24,600  | 35  |   |  |  |  |  |  |  |
| 980   | 7500             | 7 40             | 27,000   | 45  | 26,800  | 44  | 26,500  | 43  |   |  |  |  |  |  |  |
| 1047  | 8000             | 8 41             | 28,700   | 54  | 28,700  | 54  | 28,300  | 54  |   |  |  |  |  |  |  |
| 1111  | 8500             | 9 50             | 30,700   | 66  | 30,700  | 66  | 30,400  | 64  |   |  |  |  |  |  |  |
| 719   | 5500             | 3 98             | 2,920  | 4 2   |   |   |   |   |   |  |  |  |  |  |  |
| 751   | 5750             | 4 35             | 12,500   | 12 0  |   |   |   |   |   |  |  |  |  |  |  |
| 785   | 6000             | 4 74             | 14,900   | 15 5  | 7,510   | 7 0   |   |   |   |  |  |  |  |  |  |
| 816   | 6250             | 5 14             | 16,700   | 19 0  | 14,400  | 16 5  |   |   |   |  |  |  |  |  |  |
| 850   | 6500             | 5 56             | 18,400   | 22 5  | 16,600  | 20 5  | 2,600   | 6 6   |   |  |  |  |  |  |  |
| 882   | 6750             | 5 99             | 19,800   | 27  | 18,300  | 24 5  | 12,900  | 17 0  |   |  |  |  |  |  |  |
| 915   | 7000             | 6 45             | 21,200   | 31  | 19,900  | 29  | 16,300  | 23 5  |   |  |  |  |  |  |  |
| 980   | 7500             | 7 40             | 23,800   | 40  | 22,800  | 38  | 20,100  | 33  |   |  |  |  |  |  |  |
| 1047  | 8000             | 8 41             | 26,200   | 50  | 25,300  | 48  | 23,300  | 44  |   |  |  |  |  |  |  |
| 1111  | 8500             | 9 50             | 28,400   | 62  | 27,700  | 60  | 26,100  | 56  |   |  |  |  |  |  |  |
| 1177  | 9000             | 10 67            | 30,400   | 74  | 30,000  | 72  | 28,600  | 68  |   |  |  |  |  |  |  |
| 1242  | 9500             | 11 89            | 32,600   | 88  | 32,100  | 86  | 31,000  | 81  |   |  |  |  |  |  |  |
| 1308  | 10000            | 13 17            | 34,700   | 100   | 34,300  | 100   | 33,300  | 98  |   |  |  |  |  |  |  |
| 719   | 5500             | 3 98             | 2,920  | 4 2   |   |   |   |   |   |  |  |  |  |  |  |
| 751   | 5750             | 4 35             | 12,500   | 12 0  |   |   |   |   |   |  |  |  |  |  |  |
| 785   | 6000             | 4 74             | 14,900   | 15 5  | 7,510   | 7 0   |   |   |   |  |  |  |  |  |  |
| 816   | 6250             | 5 14             | 16,700   | 19 0  | 14,400  | 16 5  |   |   |   |  |  |  |  |  |  |
| 850   | 6500             | 5 56             | 18,400   | 22 5  | 16,600  | 20 5  | 2,600   | 6 6   |   |  |  |  |  |  |  |
| 882   | 6750             | 5 99             | 19,800   | 27  | 18,300  | 24 5  | 12,900  | 17 0  |   |  |  |  |  |  |  |
| 915   | 7000             | 6 45             | 21,200   | 31  | 19,900  | 29  | 16,300  | 23 5  |   |  |  |  |  |  |  |
| 980   | 7500             | 7 40             | 23,800   | 40  | 22,800  | 38  | 20,100  | 33  |   |  |  |  |  |  |  |
| 1047  | 8000             | 8 41             | 26,200   | 50  | 25,300  | 48  | 23,300  | 44  |   |  |  |  |  |  |  |
| 1111  | 8500             | 9 50             | 28,400   | 62  | 27,700  | 60  | 26,100  | 56  |   |  |  |  |  |  |  |
| 1177  | 9000             | 10 67            | 30,400   | 74  | 30,000  | 72  | 28,600  | 68  |   |  |  |  |  |  |  |
| 1242  | 9500             | 11 89            | 32,600   | 88  | 32,100  | 86  | 31,000  | 81  |   |  |  |  |  |  |  |
| 1308  | 10000            | 13 17            | 34,700   | 100   | 34,300  | 100   | 33,300  | 98  |   |  |  |  |  |  |  |
| 719   | 5500             | 3 98             | 2,920  | 4 2   |   |   |   |   |   |  |  |  |  |  |  |
| 751   | 5750             | 4 35             | 12,500   | 12 0  |   |   |   |   |   |  |  |  |  |  |  |
| 785   | 6000             | 4 74             | 14,900   | 15 5  | 7,510   | 7 0   |   |   |   |  |  |  |  |  |  |
| 816   | 6250             | 5 14             | 16,700   | 19 0  | 14,400  | 16 5  |   |   |   |  |  |  |  |  |  |
| 850   | 6500             | 5 56             | 18,400   | 22 5  | 16,600  | 20 5  | 2,600   | 6 6   |   |  |  |  |  |  |  |
| 882   | 6750             | 5 99             | 19,800   | 27  | 18,300  | 24 5  | 12,900  | 17 0  |   |  |  |  |  |  |  |
| 915   | 7000             | 6 45             | 21,200   | 31  | 19,900  | 29  | 16,300  | 23 5  |   |  |  |  |  |  |  |
| 980   | 7500             | 7 40             | 23,800   | 40  | 22,800  | 38  | 20,100  | 33  |   |  |  |  |  |  |  |
| 1047  | 8000             | 8 41             | 26,200   | 50  | 25,300  | 48  | 23,300  | 44  |   |  |  |  |  |  |  |
| 1111  | 8500             | 9 50             | 28,400   | 62  | 27,700  | 60  | 26,100  | 56  |   |  |  |  |  |  |  |
| 1177  | 9000             | 10 67            | 30,400   | 74  | 30,000  | 72  | 28,600  | 68  |   |  |  |  |  |  |  |
| 1242  | 9500             | 11 89            | 32,600   | 88  | 32,100  | 86  | 31,000  | 81  |   |  |  |  |  |  |  |
| 1308  | 10000            | 13 17            | 34,700   | 100   | 34,300  | 100   | 33,300  | 98  |   |  |  |  |  |  |  |

Single Inlet

## No. 7 Multivane Fan — Design 3

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.                                       | H. P.    | Volume C.F.M.                                       | H. P.    | Volume C.F.M.                                       | H. P.    | Volume C.F.M.                                       | H. P.    | Volume C.F.M.                                     | H. P.    | Volume C.F.M.                                       | H. P.    | Volume C.F.M.                                       | H. P.    |
|--------|------------------|------------------|---|----------|---|----------|---|----------|---|----------|---|----------|---|----------|---|----------|
|        |                  |                  | Static Pressure 1/2" Water .0722 ozs. per sq. inch  | Pressure | Static Pressure 1/2" Water .145 ozs. per sq. inch   | Pressure | Static Pressure 1/2" Water .217 ozs. per sq. inch   | Pressure | Static Pressure 1/2" Water .289 ozs. per sq. inch   | Pressure | Static Pressure 1/2" Water .361 ozs. per sq. inch | Pressure | Static Pressure 1/2" Water .434 ozs. per sq. inch   | Pressure | Static Pressure 1/2" Water .506 ozs. per sq. inch   | Pressure |
| 124    | 1075             | .152             | 920   | 0.039    |   |          |   |          |   |          |   |          |   |          |   |          |
| 141    | 1200             | .189             | 4,050   | 0.17     |   |          |   |          |   |          |   |          |   |          |   |          |
| 165    | 1400             | .258             | 5,440   | 0.32     | 144   | 0.065    |   |          |   |          |   |          |   |          |   |          |
| 188    | 1600             | .337             | 6,590   | 0.50     | 4,860   | 0.365    |   |          |   |          |   |          |   |          |   |          |
| 212    | 1800             | .426             | 7,630   | 0.73     | 6,500   | 0.62     | 1,180   | 0.18     |   |          |   |          |   |          |   |          |
| 235    | 2000             | .526             | 8,650   | 1.00     | 7,820   | 0.93     | 6,360   | 0.74     | 330   | 0.185    |   |          |   |          |   |          |
| 259    | 2200             | .636             | 9,640   | 1.35     | 8,970   | 1.30     | 7,930   | 1.15     | 6,190   | 0.88     | 113   | 0.225    |   |          |   |          |
| 282    | 2400             | .759             | 10,600  | 1.80     | 10,000  | 1.70     | 9,270   | 1.60     | 8,110   | 1.40     | 6,040   | 1.05     | 87  | 0.29     |   |          |
| 306    | 2600             | .889             | 11,500  | 2.25     | 11,100  | 2.20     | 10,500  | 2.10     | 9,580   | 1.90     | 8,340   | 1.65     | 5,970   | 1.20     |   |          |
| 329    | 2800             | 1.03             |   |          | 12,100  | 2.80     | 11,600  | 2.70     | 10,900  | 2.55     | 9,960   | 2.30     | 8,500   | 1.95     | 6,020   | 1.50     |
| 353    | 3000             | 1.19             |   |          | 13,100  | 3.45     | 12,600  | 3.40     | 12,100  | 3.20     | 11,300  | 3.05     | 10,400  | 2.75     | 9,200   | 2.45     |
| 376    | 3200             | 1.35             |   |          | 14,100  | 4.2      | 13,700  | 4.10     | 13,200  | 4.05     | 12,600  | 3.85     | 11,800  | 3.6      | 10,900  | 3.35     |
| 400    | 3400             | 1.52             |   |          | 15,000  | 5.1      | 14,700  | 4.95     | 14,200  | 4.85     | 13,700  | 4.8      | 13,200  | 4.5      | 12,400  | 4.25     |
| 424    | 3600             | 1.71             |   |          | 16,000  | 6.1      | 15,600  | 5.9      | 15,300  | 5.9      | 14,900  | 5.7      | 14,300  | 5.5      | 13,700  | 5.3      |
| 447    | 3800             | 1.90             |   |          | 17,000  | 7.2      | 16,600  | 7.1      | 16,300  | 6.9      | 15,900  | 6.8      | 15,500  | 6.7      | 14,900  | 6.4      |
| 471    | 4000             | 2.11             |   |          |   |          | 17,600  | 8.2      | 17,300  | 8.1      | 16,900  | 8.0      | 16,600  | 7.9      | 16,100  | 7.7      |
| 494    | 4200             | 2.32             |   |          |   |          | 18,600  | 9.6      | 18,200  | 9.4      | 18,000  | 9.3      | 17,700  | 9.2      | 17,300  | 9.1      |
| 517    | 4400             | 2.55             |   |          |   |          | 19,500  | 11.0     | 19,300  | 11.0     | 19,000  | 11.0     | 18,600  | 10.5     | 18,300  | 10.5     |
| 541    | 4600             | 2.78             |   |          |   |          | 20,500  | 12.5     | 20,200  | 12.5     | 20,000  | 12.5     | 19,700  | 12.0     | 19,400  | 12.0     |
| 565    | 4800             | 3.03             |   |          |   |          |   |          | 21,200  | 14.5     | 21,000  | 14.0     | 20,700  | 14.0     | 20,400  | 14.0     |
| 588    | 5000             | 3.29             |   |          |   |          |   |          | 22,200  | 16       | 22,000  | 16.0     | 21,700  | 16.0     | 21,400  | 15.5     |
| 618    | 5250             | 3.63             |   |          |   |          |   |          | 23,400  | 19       | 23,200  | 18.5     | 22,900  | 18.5     | 22,700  | 18.5     |
| 647    | 5500             | 3.98             |   |          |   |          |   |          |   |          | 24,400  | 21.5     | 24,100  | 21.5     | 23,900  | 21.0     |
| 676    | 5750             | 4.35             |   |          |   |          |   |          |   |          | 25,600  | 25       | 25,400  | 24.5     | 25,200  | 24.5     |
| 706    | 6000             | 4.74             |   |          |   |          |   |          |   |          | 26,700  | 28       | 26,600  | 28       | 26,400  | 28       |
| 735    | 6250             | 5.14             |   |          |   |          |   |          |   |          |   |          | 27,700  | 32       | 27,600  | 32       |
| 765    | 6500             | 5.56             |   |          |   |          |   |          |   |          |   |          | 28,800  | 36       | 28,800  | 36       |
| 794    | 6750             | 5.99             |   |          |   |          |   |          |   |          |   |          | 29,900  | 40       | 30,000  | 40       |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 ozs. per sq. inch     | Pressure | Static Pressure 1 1/4" Water .723 ozs. per sq. inch | Pressure | Static Pressure 1 1/2" Water .878 ozs. per sq. inch | Pressure | Static Pressure 1 3/4" Water 1.01 ozs. per sq. inch | Pressure | Static Pressure 2" Water 1.16 ozs. per sq. inch   | Pressure | Static Pressure 2 1/4" Water 1.48 ozs. per sq. inch | Pressure | Static Pressure 2 1/2" Water 1.73 ozs. per sq. inch | Pressure |
| 353    | 3000             | 1.19             | 5,400   | 1.45     |   |          |   |          |   |          |   |          |   |          |   |          |
| 376    | 3200             | 1.35             | 9,750   | 2.90     | 972   | 0.80     |   |          |   |          |   |          |   |          |   |          |
| 400    | 3400             | 1.52             | 11,500  | 3.90     | 8,570   | 2.9      |   |          |   |          |   |          |   |          |   |          |
| 424    | 3600             | 1.71             | 13,000  | 4.95     | 11,100  | 4.2      | 2,360   | 1.45     |   |          |   |          |   |          |   |          |
| 447    | 3800             | 1.90             | 14,400  | 6.2      | 12,900  | 5.5      | 10,600  | 4.45     | 1,270   | 1.50     |   |          |   |          |   |          |
| 471    | 4000             | 2.11             | 15,600  | 7.5      | 14,400  | 6.8      | 12,700  | 6.0      | 9,690   | 4.55     |   |          |   |          |   |          |
| 494    | 4200             | 2.32             | 16,800  | 8.8      | 15,800  | 8.2      | 14,400  | 7.5      | 12,500  | 6.5      | 8,680   | 2.5      |   |          |   |          |
| 517    | 4400             | 2.55             | 18,000  | 10.5     | 17,000  | 9.8      | 15,900  | 9.1      | 14,500  | 8.2      | 12,200  | 6.7      |   |          |   |          |
| 541    | 4600             | 2.78             | 19,000  | 12.0     | 18,200  | 11.5     | 17,800  | 11.0     | 16,000  | 10.0     | 14,700  | 9.1      | 2,300   | 2.9      |   |          |
| 565    | 4800             | 3.03             | 20,100  | 13.5     | 19,400  | 13.5     | 18,500  | 12.5     | 17,500  | 12.0     | 16,200  | 11.0     | 12,000  | 8.1      |   |          |
| 588    | 5000             | 3.29             | 21,200  | 15.5     | 20,500  | 15.5     | 19,600  | 15.0     | 18,800  | 14.0     | 17,800  | 13.5     | 14,800  | 11.0     | 2,010   | 3.0      |
| 618    | 5250             | 3.63             | 22,400  | 18       | 21,900  | 18.0     | 21,200  | 17.5     | 20,500  | 17.0     | 19,500  | 16.0     | 17,200  | 14.0     | 13,000  | 10.5     |
| 647    | 5500             | 3.98             | 23,700  | 21       | 23,200  | 20.5     | 22,600  | 20.5     | 21,900  | 19.5     | 21,100  | 19.0     | 19,200  | 17.0     | 16,400  | 14.5     |
| 676    | 5750             | 4.35             | 24,900  | 24       | 24,500  | 24       | 24,000  | 23.5     | 23,300  | 23       | 22,600  | 22.5     | 21,000  | 20.5     | 18,800  | 18       |
| 706    | 6000             | 4.74             | 26,200  | 28       | 25,800  | 27       | 25,300  | 27       | 24,700  | 26       | 24,100  | 26       | 22,700  | 24       | 20,800  | 22       |
| 735    | 6250             | 5.14             | 27,400  | 31       | 27,000  | 31       | 26,600  | 31       | 26,100  | 30       | 25,500  | 30       | 24,000  | 28       | 22,400  | 26       |
| 765    | 6500             | 5.56             | 28,600  | 35       | 28,100  | 35       | 27,600  | 35       | 27,100  | 34       | 26,500  | 34       | 25,000  | 32       | 24,000  | 31       |
| 794    | 6750             | 5.99             | 29,800  | 40       | 29,500  | 39       | 29,100  | 39       | 28,700  | 39       | 28,300  | 38       | 27,200  | 37       | 25,900  | 35       |
| 824    | 7000             | 6.45             | 31,000  | 44       | 30,700  | 44       | 30,300  | 44       | 30,000  | 43       | 29,600  | 43       | 28,600  | 42       | 27,500  | 40       |
| 882    | 7500             | 7.40             | 33,400  | 56       | 33,100  | 54       | 32,800  | 54       | 32,500  | 54       | 32,100  | 54       | 31,300  | 52       | 30,400  | 50       |
| 941    | 8000             | 8.41             |   |          | 35,400  | 66       | 35,200  | 66       | 34,900  | 66       | 34,600  | 64       | 33,900  | 64       | 33,200  | 64       |
| 1000   | 8500             | 9.50             |   |          | 37,900  | 80       | 37,600  | 80       | 37,300  | 80       | 37,100  | 78       | 36,400  | 78       | 35,800  | 76       |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 3 1/2" Water 2.62 ozs. per sq. inch | Pressure | Static Pressure 4" Water 2.31 ozs. per sq. inch     | Pressure | Static Pressure 5" Water 2.89 ozs. per sq. inch     | Pressure | Static Pressure 6" Water 3.47 ozs. per sq. inch     | Pressure | Static Pressure 7" Water 4.05 ozs. per sq. inch   | Pressure | Static Pressure 8" Water 4.63 ozs. per sq. inch     | Pressure | Static Pressure 9" Water 5.2 ozs. per sq. inch      | Pressure |
| 647    | 5500             | 3.98             | 3,600   | 5.2      |   |          |   |          |   |          |   |          |   |          |   |          |
| 676    | 5750             | 4.35             | 15,400  | 15.0     |   |          |   |          |   |          |   |          |   |          |   |          |
| 706    | 6000             | 4.74             | 18,400  | 19.5     | 9,270   | 9.4      |   |          |   |          |   |          |   |          |   |          |
| 735    | 6250             | 5.14             | 20,600  | 23.5     | 17,800  | 20.5     |   |          |   |          |   |          |   |          |   |          |
| 765    | 6500             | 5.56             | 22,700  | 28       | 20,500  | 25       | 3,210   | 8.2      |   |          |   |          |   |          |   |          |
| 794    | 6750             | 5.99             | 24,400  | 33       | 22,600  | 30       | 16,000  | 21       |   |          |   |          |   |          |   |          |
| 824    | 7000             | 6.45             | 26,200  | 38       | 24,600  | 35       | 20,200  | 29       | 1,880   | 8.8      |   |          |   |          |   |          |
| 882    | 7500             | 7.40             | 29,400  | 49       | 28,100  | 47       | 24,800  | 41       | 19,700  | 33       | 1,470   | 10.5     |   |          |   |          |
| 941    | 8000             | 8.41             | 32,300  | 62       | 31,300  | 60       | 28,700  | 51       | 25,400  | 47       | 19,400  | 36       | 1,320   | 11.5     |   |          |
| 1000   | 8500             | 9.50             | 35,000  | 76       | 34,200  | 74       | 32,200  | 68       | 29,400  | 64       | 26,300  | 56       | 17,600  | 42       | 1,580   | 15.5     |
| 1059   | 9000             | 10.67            | 37,600  | 90       | 37,000  | 90       | 35,300  | 86       | 33,200  | 80       | 30,500  | 74       | 27,000  | 64       | 13,900  | 35       |
| 1118   | 9500             | 11.89            | 40,300  | 110      | 39,600  | 105      | 38,200  | 105      | 36,400  | 98       | 34,200  | 92       | 31,600  | 84       | 28,200  | 74       |
| 1177   | 10000            | 13.17            | 42,900  | 125      | 42,300  | 125      | 41,000  | 120      | 39,500  | 115      | 37,600  | 115      | 35,500  | 105      | 32,900  | 96       |

Single Inlet

## No. 8 Multivane Fan — Design 3

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                     | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. |
|--------|------------------|------------------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|
|        |                  |                  | Static Pressure 1/2" Water .0722 ozs. per sq. inch  |       | Static Pressure 1/4" Water .145 ozs. per sq. inch   |       | Static Pressure 3/8" Water .217 ozs. per sq. inch   |       | Static Pressure 1/2" Water .289 ozs. per sq. inch   |       | Static Pressure 5/8" Water .361 ozs. per sq. inch |       | Static Pressure 3/4" Water .434 ozs. per sq. inch   |       | Static Pressure 7/8" Water .506 ozs. per sq. inch   |       |
| 103    | 1075             | 152              | 1,330   | 0 056 |   |       |   |       |   |       |   |       |   |       |   |       |
| 118    | 1200             | 189              | 5,840   | 0 245 |   |       |   |       |   |       |   |       |   |       |   |       |
| 137    | 1400             | 258              | 7,840   | 0 46  |   |       |   |       |   |       |   |       |   |       |   |       |
| 157    | 1600             | 337              | 9,500   | 0 72  | 208   | 0 094 |   |       |   |       |   |       |   |       |   |       |
|        |                  |                  |   |       | 7,000   | 0 52  |   |       |   |       |   |       |   |       |   |       |
| 177    | 1800             | 426              | 11,000  | 1 05  | 9,350   | 0 90  | 1,700   | 0 265 |   |       |   |       |   |       |   |       |
| 196    | 2000             | 526              | 12,500  | 1 45  | 11,300  | 1 35  | 9,160   | 1 05  |   |       |   |       |   |       |   |       |
| 216    | 2200             | 636              | 13,900  | 1 95  | 12,900  | 1 85  | 11,400  | 1 65  | 475   | 0 265 |   |       |   |       |   |       |
| 235    | 2400             | 759              | 15,300  | 2 55  | 14,500  | 2 45  | 13,400  | 2 30  | 8,920   | 1 25  | 163   | 0 32  |   |       |   |       |
| 255    | 2600             | 889              | 16,600  | 3 25  | 16,000  | 3 15  | 15,100  | 3 05  | 11,700  | 2 00  | 8,700   | 1 50  | 125   | 0 42  |   |       |
| 275    | 2800             | 1 03             |   |       | 17,500  | 4 00  | 16,700  | 3 90  | 13,800  | 2 75  | 12,000  | 2 35  | 8,610   | 1 75  |   |       |
| 294    | 3000             | 1 19             |   |       | 18,900  | 4 95  | 18,200  | 4 85  | 15,700  | 3 65  | 14,400  | 3 30  | 12,300  | 2 80  |   |       |
| 314    | 3200             | 1 35             |   |       | 20,300  | 6 1   | 19,700  | 5 9   | 17,400  | 4 6   | 16,300  | 4 35  | 15,000  | 3 95  | 8,680   | 2 2   |
| 333    | 3400             | 1 52             |   |       | 21,700  | 7 3   | 21,200  | 7 2   | 19,000  | 5 8   | 18,100  | 5 5   | 17,100  | 5 2   | 13,300  | 3 5   |
| 353    | 3600             | 1 71             |   |       | 23,000  | 8 8   | 22,500  | 8 5   | 20,500  | 7 0   | 19,800  | 6 9   | 19,000  | 6 5   | 17,900  | 6 1   |
| 373    | 3800             | 1 90             |   |       | 24,400  | 10 5  | 24,000  | 10 0  | 22,000  | 8 5   | 21,400  | 8 3   | 20,600  | 8 0   | 19,800  | 7 6   |
| 392    | 4000             | 2 11             |   |       |   |       | 25,400  | 12 0  | 23,500  | 9 9   | 22,900  | 9 8   | 22,300  | 9 6   | 21,500  | 9 3   |
| 412    | 4200             | 2 32             |   |       |   |       | 26,800  | 14 0  | 25,000  | 11 5  | 24,400  | 11 5  | 23,900  | 11 5  | 23,200  | 11 0  |
| 431    | 4400             | 2 55             |   |       |   |       | 28,100  | 16 0  | 26,300  | 13 5  | 25,900  | 13 5  | 25,500  | 13 5  | 24,900  | 13 0  |
| 451    | 4600             | 2 78             |   |       |   |       | 29,500  | 18 5  | 27,800  | 16 0  | 27,400  | 15 5  | 26,900  | 15 5  | 26,400  | 15 0  |
| 471    | 4800             | 3 03             |   |       |   |       |   |       | 29,200  | 18 0  | 28,800  | 18 0  | 28,400  | 17 5  | 27,900  | 17 5  |
| 490    | 5000             | 3 29             |   |       |   |       |   |       | 30,600  | 20 5  | 30,200  | 20 5  | 29,800  | 20    | 29,500  | 20 0  |
| 515    | 5250             | 3 63             |   |       |   |       |   |       | 32,000  | 23 5  | 31,600  | 23    | 31,200  | 23    | 30,900  | 22 5  |
| 540    | 5500             | 3 98             |   |       |   |       |   |       | 33,700  | 27    | 33,400  | 27    | 33,000  | 27    | 32,700  | 26    |
| 564    | 5750             | 4 35             |   |       |   |       |   |       |   |       | 35,100  | 31    | 34,700  | 31    | 34,400  | 30    |
| 589    | 6000             | 4 74             |   |       |   |       |   |       |   |       | 36,800  | 36    | 36,600  | 35    | 36,300  | 35    |
| 613    | 6250             | 5 14             |   |       |   |       |   |       |   |       | 38,500  | 41    | 38,300  | 40    | 38,000  | 40    |
| 637    | 6500             | 5 56             |   |       |   |       |   |       |   |       |   |       | 40,000  | 46    | 39,800  | 45    |
| 662    | 6750             | 5 99             |   |       |   |       |   |       |   |       |   |       | 41,700  | 52    | 41,500  | 52    |
|        |                  |                  |   |       |   |       |   |       |   |       |   |       |   |       | 43,200  | 58    |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 ozs. per sq. inch     |       | Static Pressure 1 1/4" Water .723 ozs. per sq. inch |       | Static Pressure 1 1/2" Water .878 ozs. per sq. inch |       | Static Pressure 1 3/4" Water 1.01 ozs. per sq. inch |       | Static Pressure 2" Water 1.16 ozs. per sq. inch   |       | Static Pressure 2 1/4" Water 1.46 ozs. per sq. inch |       | Static Pressure 2 1/2" Water 1.73 ozs. per sq. inch |       |
| 294    | 3000             | 1 19             | 7,800   | 2 1   |   |       |   |       |   |       |   |       |   |       |   |       |
| 314    | 3200             | 1 35             | 14,000  | 4 2   | 1,400   | 1 3   |   |       |   |       |   |       |   |       |   |       |
| 333    | 3400             | 1 52             | 16,600  | 5 6   | 12,400  | 4 2   |   |       |   |       |   |       |   |       |   |       |
| 353    | 3600             | 1 71             | 18,700  | 7 2   | 16,000  | 6 1   | 3,400   | 2 1   |   |       |   |       |   |       |   |       |
| 373    | 3800             | 1 90             | 20,700  | 8 9   | 18,600  | 7 9   | 15,200  | 6 4   | 1,830   | 2 2   |   |       |   |       |   |       |
| 392    | 4000             | 2 11             | 22,500  | 11 0  | 20,700  | 9 8   | 18,300  | 8 6   | 14,000  | 6 6   |   |       |   |       |   |       |
| 412    | 4200             | 2 32             | 24,200  | 12 5  | 22,700  | 12 0  | 20,800  | 11 0  | 18,000  | 9 3   | 5,300   | 3 6   |   |       |   |       |
| 431    | 4400             | 2 55             | 25,900  | 15 0  | 24,600  | 14 0  | 22,800  | 13 0  | 20,900  | 12 0  | 17,600  | 9 6   |   |       |   |       |
| 451    | 4600             | 2 78             | 27,400  | 17 0  | 26,300  | 16 5  | 24,900  | 15 5  | 23,100  | 14 5  | 21,200  | 13    | 3,310   | 4 2   |   |       |
| 471    | 4800             | 3 03             | 28,900  | 19 5  | 27,900  | 19    | 26,700  | 18 5  | 25,200  | 17    | 23,400  | 16    | 17,300  | 11 5  |   |       |
| 490    | 5000             | 3 29             | 30,500  | 22 5  | 29,600  | 22    | 28,500  | 21 5  | 27,100  | 20    | 25,800  | 19    | 21,300  | 15 5  | 2,900   | 5 2   |
| 515    | 5250             | 3 63             | 32,300  | 26    | 31,500  | 26    | 30,500  | 25    | 29,500  | 24    | 28,100  | 23    | 24,800  | 20 0  | 18,700  | 15    |
| 540    | 5500             | 3 98             | 34,200  | 30    | 33,400  | 30    | 32,600  | 29    | 31,500  | 28    | 30,400  | 27    | 27,600  | 24 5  | 23,700  | 21    |
| 564    | 5750             | 4 35             | 35,800  | 35    | 35,200  | 34    | 34,500  | 34    | 33,600  | 33    | 32,600  | 32    | 30,300  | 30    | 27,100  | 26    |
| 589    | 6000             | 4 74             | 37,800  | 40    | 37,100  | 39    | 36,500  | 39    | 35,600  | 38    | 34,700  | 37    | 32,600  | 35    | 30,000  | 32    |
| 613    | 6250             | 5 14             | 39,500  | 45    | 39,000  | 45    | 38,300  | 44    | 37,600  | 43    | 36,800  | 43    | 34,900  | 41    | 32,600  | 38    |
| 637    | 6500             | 5 56             | 41,200  | 50    | 40,500  | 50    | 40,100  | 50    | 39,500  | 49    | 38,700  | 49    | 37,100  | 47    | 35,200  | 44    |
| 662    | 6750             | 5 99             | 43,000  | 58    | 42,500  | 56    | 41,900  | 56    | 41,400  | 56    | 40,700  | 54    | 39,200  | 54    | 37,400  | 50    |
| 686    | 7000             | 6 45             | 44,700  | 64    | 44,100  | 64    | 43,700  | 64    | 43,200  | 62    | 42,600  | 62    | 41,200  | 60    | 39,600  | 58    |
| 735    | 7500             | 7 40             | 48,000  | 80    | 47,700  | 78    | 47,200  | 78    | 46,700  | 76    | 46,200  | 76    | 45,100  | 76    | 43,900  | 74    |
| 785    | 8000             | 8 41             |   |       | 51,100  | 96    | 50,700  | 96    | 50,300  | 94    | 49,900  | 94    | 48,900  | 92    | 48,000  | 92    |
| 834    | 8500             | 9 50             |   |       | 54,600  | 115   | 54,100  | 115   | 53,800  | 115   | 53,500  | 115   | 52,500  | 110   | 51,600  | 110   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 3 1/2" Water 2.02 ozs. per sq. inch |       | Static Pressure 4" Water 2.31 ozs. per sq. inch     |       | Static Pressure 5" Water 2.89 ozs. per sq. inch     |       | Static Pressure 6" Water 3.47 ozs. per sq. inch     |       | Static Pressure 7" Water 4.05 ozs. per sq. inch   |       | Static Pressure 8" Water 4.63 ozs. per sq. inch     |       | Static Pressure 9" Water 5.2 ozs. per sq. inch      |       |
| 510    | 5500             | 3 98             | 5,100   | 7 5   |   |       |   |       |   |       |   |       |   |       |   |       |
| 564    | 5750             | 4 35             | 22,200  | 21 5  |   |       |   |       |   |       |   |       |   |       |   |       |
| 589    | 6000             | 4 74             | 26,500  | 28    | 13,400  | 13 5  |   |       |   |       |   |       |   |       |   |       |
| 613    | 6250             | 5 14             | 29,700  | 34    | 25,600  | 29    |   |       |   |       |   |       |   |       |   |       |
| 637    | 6500             | 5 56             | 32,700  | 40    | 29,500  | 37    | 4,630   | 12    |   |       |   |       |   |       |   |       |
| 662    | 6750             | 5 99             | 35,200  | 47    | 32,600  | 43    | 23,000  | 31    |   |       |   |       |   |       |   |       |
| 686    | 7000             | 6 45             | 37,700  | 54    | 35,400  | 50    | 29,000  | 42    | 2,700   | 12 5  |   |       |   |       |   |       |
| 735    | 7500             | 7 40             | 42,300  | 70    | 40,500  | 68    | 35,800  | 60    | 28,400  | 47    | 2,120   | 15    |   |       |   |       |
| 785    | 8000             | 8 41             | 46,500  | 88    | 45,000  | 86    | 41,400  | 78    | 36,600  | 68    | 27,900  | 52    | 1,900   | 17    |   |       |
| 834    | 8500             | 9 50             | 50,500  | 110   | 49,200  | 105   | 46,400  | 100   | 42,400  | 90    | 37,900  | 80    | 25,400  | 60    | 2,270   | 22    |
| 882    | 9000             | 10 67            | 54,100  | 130   | 53,300  | 130   | 50,800  | 125   | 47,800  | 115   | 44,000  | 105   | 38,900  | 92    | 20,000  | 50    |
| 931    | 9500             | 11 89            | 58,000  | 155   | 57,100  | 155   | 55,000  | 150   | 52,500  | 140   | 49,400  | 130   | 45,500  | 120   | 40,700  | 110   |
| 980    | 10000            | 13 17            | 61,700  | 180   | 61,000  | 180   | 59,200  | 175   | 57,000  | 170   | 54,200  | 160   | 51,100  | 150   | 47,400  | 140   |



Single Inlet

## No. 9 Multivane Fan — Design 3

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| FOR USE IN CONNECTION WITH THE "H. P. TABLE" FOR ESTIMATING THE POWER REQUIRED TO PUMP WATER CONTINUOUSLY THROUGH A PIPELINE |                  |                  |   |   |   |   |   |   |   |       |               |        |               |        |               |       |
|--|------------------|------------------|---|---|---|---|---|---|---|-------|---------------|--------|---------------|--------|---------------|-------|
| R.P.M.   | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.                                       | H. P.   | Volume C.F.M.                                       | H. P.   | Volume C.F.M.                                     | H. P.   | Volume C.F.M.                                       | H. P. | Volume C.F.M. | H. P.  | Volume C.F.M. | H. P.  | Volume C.F.M. | H. P. |
|  |                  |                  | Static Pressure 1/2" Water .0722 ozs. per sq. inch  | Static Pressure 1/4" Water .145 ozs. per sq. inch   | Static Pressure 3/8" Water .217 ozs. per sq. inch   | Static Pressure 1/2" Water .289 ozs. per sq. inch   | Static Pressure 5/8" Water .361 ozs. per sq. inch | Static Pressure 3/4" Water .434 ozs. per sq. inch   | Static Pressure 7/8" Water .506 ozs. per sq. inch   |       |               |        |               |        |               |       |
| 88   | 1075             | .152             | 1,800   | 0.077   |   |   |   |   |   |       |               |        |               |        |               |       |
| 101  | 1200             | .180             | 7,950   | 0.335   |   |   |   |   |   |       |               |        |               |        |               |       |
| 118  | 1400             | .258             | 10,700  | 0.62  | 283   | 0.13  |   |   |   |       |               |        |               |        |               |       |
| 134  | 1600             | .337             | 12,900  | 0.98  | 9,530   | 0.71  |   |   |   |       |               |        |               |        |               |       |
| 151  | 1800             | .426             | 15,000  | 1.45  | 12,700  | 1.20  | 2,310   | 0.355   |   |       |               |        |               |        |               |       |
| 168  | 2000             | .526             | 17,000  | 2.00  | 15,300  | 1.85  | 12,500  | 1.45  | 646   | 0.36  |               |        |               |        |               |       |
| 185  | 2200             | .636             | 18,900  | 2.65  | 17,600  | 2.55  | 15,000  | 2.20  | 12,200  | 1.70  | 222           | 0.435  |               |        |               |       |
| 202  | 2400             | .759             | 20,800  | 3.50  | 19,700  | 3.35  | 18,200  | 3.10  | 15,900  | 2.70  | 11,830        | 2.00   | 170           | 0.57   |               |       |
| 219  | 2600             | .889             | 22,600  | 4.45  | 21,700  | 4.3   | 20,500  | 4.15  | 18,800  | 3.75  | 16,400        | 3.25   | 11,700        | 2.4    |               |       |
| 235  | 2800             | 1.03             |   |   | 23,700  | 5.5   | 22,700  | 5.3   | 21,400  | 5.0   | 19,500        | 4.5    | 16,700        | 3.8    | 11,800        | 3.00  |
| 252  | 3000             | 1.19             |   |   | 25,700  | 6.8   | 24,800  | 6.6   | 23,600  | 6.3   | 22,200        | 5.9    | 20,400        | 5.4    | 18,000        | 4.75  |
| 269  | 3200             | 1.35             |   |   | 27,600  | 8.2   | 26,800  | 8.1   | 25,900  | 7.9   | 24,600        | 7.5    | 23,200        | 7.0    | 21,400        | 6.6   |
| 286  | 3400             | 1.52             |   |   | 29,500  | 9.9   | 28,800  | 9.7   | 27,900  | 9.5   | 26,900        | 9.4    | 25,800        | 8.9    | 24,300        | 8.3   |
| 303  | 3600             | 1.71             |   |   | 31,300  | 12  | 30,600  | 11.5  | 30,000  | 11.5  | 29,200        | 11.5   | 28,100        | 11.0   | 27,000        | 10.5  |
| 319  | 3800             | 1.90             |   |   | 33,200  | 14  | 32,600  | 14  | 31,900  | 13.5  | 31,200        | 13.5   | 30,300        | 13.0   | 29,300        | 12.5  |
| 336  | 4000             | 2.11             |   |   |   |   | 34,500  | 16  | 33,900  | 16.0  | 33,200        | 16.0   | 32,600        | 15.5   | 31,500        | 15.0  |
| 353  | 4200             | 2.32             |   |   |   |   | 36,500  | 19  | 35,700  | 18.5  | 35,200        | 18.5   | 34,600        | 18     | 33,800        | 18.0  |
| 370  | 4400             | 2.55             |   |   |   |   | 38,300  | 22  | 37,800  | 21.5  | 37,300        | 21     | 36,600        | 21     | 35,900        | 20.5  |
| 387  | 4600             | 2.78             |   |   |   |   | 40,100  | 25  | 39,700  | 24.5  | 39,200        | 24     | 38,600        | 24     | 38,000        | 23.5  |
| 404  | 4800             | 3.03             |   |   |   |   |   |   | 41,600  | 28    | 41,100        | 28     | 40,600        | 27     | 40,100        | 27    |
| 420  | 5000             | 3.29             |   |   |   |   |   |   | 43,500  | 32    | 43,000        | 31     | 42,500        | 31     | 42,000        | 31    |
| 441  | 5250             | 3.63             |   |   |   |   |   |   | 45,900  | 37    | 45,500        | 37     | 44,900        | 36     | 44,400        | 36    |
| 462  | 5500             | 3.98             |   |   |   |   |   |   |   |       | 47,700        | 42     | 47,200        | 42     | 46,800        | 41    |
| 483  | 5750             | 4.35             |   |   |   |   |   |   |   |       | 50,100        | 49     | 49,600        | 48     | 49,100        | 48    |
| 505  | 6000             | 4.74             |   |   |   |   |   |   |   |       | 52,500        | 56     | 52,100        | 56     | 51,700        | 54    |
| 525  | 6250             | 5.14             |   |   |   |   |   |   |   |       |               | 54,400 | 62            | 54,100 | 62            |       |
| 546  | 6500             | 5.56             |   |   |   |   |   |   |   |       |               | 56,700 | 70            | 56,400 | 70            |       |
| 567  | 6750             | 5.99             |   |   |   |   |   |   |   |       |               |        | 58,800        | 78     |               |       |
| R.P.M.   | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 ozs. per sq. inch     | Static Pressure 1 1/4" Water .723 ozs. per sq. inch | Static Pressure 1 1/2" Water .878 ozs. per sq. inch | Static Pressure 1 3/4" Water 1.01 ozs. per sq. inch | Static Pressure 2" Water 1.16 ozs. per sq. inch   | Static Pressure 2 1/4" Water 1.48 ozs. per sq. inch | Static Pressure 2 1/2" Water 1.73 ozs. per sq. inch |       |               |        |               |        |               |       |
| 252  | 3000             | 1.19             | 10,600  | 2.85  |   |   |   |   |   |       |               |        |               |        |               |       |
| 269  | 3200             | 1.35             | 19,100  | 5.7   | 1,910   | 1.75  |   |   |   |       |               |        |               |        |               |       |
| 286  | 3400             | 1.52             | 22,600  | 7.7   | 16,800  | 5.7   |   |   |   |       |               |        |               |        |               |       |
| 303  | 3600             | 1.71             | 25,400  | 9.7   | 21,800  | 8.3   | 4,610   | 2.85  |   |       |               |        |               |        |               |       |
| 319  | 3800             | 1.90             | 28,200  | 12.0  | 25,200  | 10.5  | 20,700  | 8.81  | 2,490   | 3.0   |               |        |               |        |               |       |
| 336  | 4000             | 2.11             | 30,600  | 14.5  | 28,200  | 13.5  | 24,900  | 11.5  | 19,000  | 8.9   |               |        |               |        |               |       |
| 353  | 4200             | 2.32             | 33,000  | 17.5  | 30,900  | 16.0  | 28,300  | 14.5  | 24,500  | 12.5  | 7,200         | 4.9    |               |        |               |       |
| 370  | 4400             | 2.55             | 35,200  | 20.5  | 33,300  | 19.0  | 31,100  | 18  | 28,400  | 16.0  | 23,900        | 13.0   |               |        |               |       |
| 387  | 4600             | 2.78             | 37,200  | 23.5  | 35,700  | 22.5  | 33,800  | 21  | 31,400  | 19.5  | 28,800        | 18.0   | 4,500         | 5.7    |               |       |
| 404  | 4800             | 3.03             | 39,400  | 27  | 38,000  | 26  | 36,300  | 25  | 34,200  | 23.5  | 31,800        | 21.5   | 23,500        | 16     |               |       |
| 420  | 5000             | 3.29             | 41,500  | 31  | 40,200  | 30  | 38,800  | 29  | 36,900  | 28    | 34,800        | 26     | 29,000        | 21     | 3,940         | 7.0   |
| 441  | 5250             | 3.63             | 43,900  | 36  | 42,900  | 35  | 41,500  | 34  | 40,100  | 33    | 38,100        | 31     | 33,700        | 27     | 25,500        | 20.5  |
| 462  | 5500             | 3.98             | 46,500  | 41  | 45,400  | 41  | 44,300  | 40  | 42,900  | 39    | 41,400        | 37     | 37,600        | 33     | 32,200        | 28    |
| 483  | 5750             | 4.35             | 48,800  | 47  | 48,000  | 47  | 47,000  | 46  | 45,700  | 45    | 44,300        | 44     | 41,200        | 40     | 36,900        | 36    |
| 505  | 6000             | 4.74             | 51,400  | 54  | 50,500  | 54  | 49,800  | 52  | 48,500  | 52    | 47,300        | 50     | 44,400        | 47     | 40,800        | 43    |
| 525  | 6250             | 5.14             | 53,700  | 62  | 53,000  | 60  | 52,100  | 60  | 51,100  | 60    | 50,000        | 58     | 47,500        | 56     | 44,300        | 52    |
| 546  | 6500             | 5.56             | 56,000  | 70  | 55,100  | 68  | 54,500  | 68  | 53,700  | 68    | 52,600        | 66     | 50,500        | 64     | 47,900        | 60    |
| 567  | 6750             | 5.99             | 58,400  | 78  | 57,800  | 78  | 57,000  | 76  | 56,300  | 76    | 55,400        | 74     | 53,300        | 72     | 50,900        | 70    |
| 589  | 7000             | 6.45             | 60,800  | 86  | 60,200  | 86  | 59,400  | 86  | 58,800  | 84    | 57,900        | 84     | 56,000        | 82     | 53,900        | 78    |
| 631  | 7500             | 7.40             | 65,400  | 110   | 64,900  | 105   | 64,200  | 105   | 63,600  | 105   | 62,900        | 105    | 61,300        | 100    | 59,700        | 100   |
| 672  | 8000             | 8.41             |   |   | 69,000  | 130   | 69,000  | 130   | 68,500  | 130   | 67,900        | 125    | 66,500        | 125    | 65,200        | 125   |
| 715  | 8500             | 9.50             |   |   | 74,400  | 160   | 73,700  | 155   | 73,200  | 155   | 72,600        | 155    | 71,400        | 150    | 70,300        | 150   |
| R.P.M.   | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 3 1/2" Water 2.02 ozs. per sq. inch | Static Pressure 4" Water 2.31 ozs. per sq. inch     | Static Pressure 5" Water 2.89 ozs. per sq. inch     | Static Pressure 6" Water 3.47 ozs. per sq. inch     | Static Pressure 7" Water 4.05 ozs. per sq. inch   | Static Pressure 8" Water 4.63 ozs. per sq. inch     | Static Pressure 9" Water 5.2 ozs. per sq. inch      |       |               |        |               |        |               |       |
| 462  | 5500             | 3.98             | 7,050   | 10  |   |   |   |   |   |       |               |        |               |        |               |       |
| 483  | 5750             | 4.35             | 30,200  | 29  |   |   |   |   |   |       |               |        |               |        |               |       |
| 505  | 6000             | 4.74             | 36,000  | 38  | 18,200  | 18.5  |   |   |   |       |               |        |               |        |               |       |
| 525  | 6250             | 5.14             | 40,400  | 46  | 34,800  | 40  |   |   |   |       |               |        |               |        |               |       |
| 546  | 6500             | 5.56             | 44,400  | 56  | 40,200  | 50  | 6,300   | 16  |   |       |               |        |               |        |               |       |
| 567  | 6750             | 5.99             | 47,800  | 64  | 44,300  | 60  | 31,300  | 42  |   |       |               |        |               |        |               |       |
| 589  | 7000             | 6.45             | 51,300  | 74  | 48,100  | 70  | 39,500  | 50  | 3,670   | 17    |               |        |               |        |               |       |
| 631  | 7500             | 7.40             | 57,500  | 96  | 55,100  | 92  | 48,700  | 80  | 38,600  | 64    |               |        |               |        |               |       |
| 672  | 8000             | 8.41             | 63,300  | 120   | 61,300  | 115   | 56,400  | 105   | 49,800  | 92    | 2,880         | 20.5   |               |        |               |       |
| 715  | 8500             | 9.50             | 68,600  | 150   | 67,000  | 145   | 63,100  | 135   | 57,600  | 125   | 51,500        | 110    | 2,580         | 23     |               |       |
| 756  | 9000             | 10.67            | 73,700  | 175   | 72,500  | 175   | 69,100  | 165   | 65,000  | 160   | 59,800        | 145    | 53,000        | 125    | 27,300        | 68    |
| 799  | 9500             | 11.89            | 79,000  | 210   | 77,700  | 210   | 74,900  | 200   | 71,400  | 190   | 67,100        | 180    | 62,000        | 165    | 55,400        | 145   |
| 840  | 10000            | 13.17            | 84,000  | 245   | 82,900  | 245   | 80,500  | 240   | 77,500  | 230   | 73,900        | 220    | 69,000        | 205    | 64,500        | 190   |



Single Inlet

**No. 10 Multivane Fan — Design 3**

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M. H. P. Static Pressure 1" Water .0722 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1 1/4" Water .145 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1 1/2" Water .217 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1 3/4" Water .289 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 2" Water .361 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 2 1/4" Water .434 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 2 1/2" Water .506 ozs. per sq. inch |
|--------|------------------|------------------|--|---|---|---|---|---|---|
| 77     | 1075             | 152              | 2,360 0 01   |   |   |   |   |   |   |
| 88     | 1200             | 189              | 10,100 0 41  |   |   |   |   |   |   |
| 103    | 1400             | 258              | 13,900 0 82  | 370 0 165   |   |   |   |   |   |
| 118    | 1600             | 337              | 16,900 1 30  | 12,500 0 93   |   |   |   |   |   |
| 132    | 1800             | 426              | 19,600 1 85  | 16,600 1 6  | 3,020 0 465   |   |   |   |   |
| 147    | 2000             | 526              | 22,200 2 6   | 20,000 2 4  | 16,300 1 90   | 845 0 47  |   |   |   |
| 162    | 2200             | 636              | 24,700 3 5   | 23,000 3 3  | 20,300 2 90   | 15,900 2 25   | 290 0 57  |   |   |
| 176    | 2400             | 759              | 27,200 4 6   | 25,700 4 4  | 23,800 4 05   | 20,800 3 5  | 15,500 2 65   | 222 0 75  |   |
| 191    | 2600             | 889              | 29,600 5 8   | 28,400 5 6  | 26,800 5 4  | 24,600 4 9  | 21,400 4 2  | 15,300 3 1  |   |
| 206    | 2800             | 1 03             |  | 31,000 7 1  | 29,600 6 9  | 27,900 6 5  | 25,500 5 9  | 21,800 5 0  | 15,400 3 9  |
| 221    | 3000             | 1 19             |  | 33,600 8 8  | 32,400 8 7  | 30,900 8 2  | 29,000 7 8  | 26,600 7 1  | 23,600 6 2  |
| 235    | 3200             | 1 35             |  | 36,000 11 0   | 35,000 10 5   | 33,800 10 5   | 32,200 9 8  | 30,400 9 2  | 28,000 8 6  |
| 250    | 3400             | 1 52             |  | 38,500 13 0   | 37,600 12 5   | 36,500 12 5   | 35,200 12 5   | 33,800 11 5   | 31,800 11 0   |
| 265    | 3600             | 1 71             |  | 40,900 15 5   | 40,000 15 0   | 39,200 15 0   | 38,200 14 5   | 36,700 14 0   | 35,200 13 5   |
| 280    | 3800             | 1 90             |  | 43,400 18 5   | 42,600 18 0   | 41,700 17 5   | 40,800 17 5   | 39,600 17 0   | 38,300 16 5   |
| 294    | 4000             | 2 11             |  |   | 45,100 21 0   | 44,300 21   | 43,400 20 5   | 42,600 20 0   | 41,200 19 5   |
| 309    | 4200             | 2 32             |  |   | 47,600 24 5   | 46,700 24   | 46,000 24   | 45,300 23 5   | 44,200 23   |
| 324    | 4400             | 2 55             |  |   | 50,000 20   | 49,500 28   | 48,700 28   | 47,800 27   | 47,000 27   |
| 338    | 4600             | 2 78             |  |   | 52,500 33   | 51,900 32   | 51,200 32   | 50,400 31   | 49,700 31   |
| 353    | 4800             | 3 03             |  |   |   | 54,400 37   | 53,700 36   | 53,000 36   | 52,400 36   |
| 368    | 5000             | 3 29             |  |   |   | 56,900 42   | 56,200 41   | 55,500 41   | 54,900 40   |
| 386    | 5250             | 3 63             |  |   |   | 59,900 48   | 59,400 48   | 58,700 48   | 58,000 47   |
| 405    | 5500             | 3 98             |  |   |   |   | 62,400 56   | 61,700 54   | 61,200 54   |
| 423    | 5750             | 4 35             |  |   |   |   | 65,500 61   | 65,000 62   | 64,500 62   |
| 441    | 6000             | 4 74             |  |   |   |   | 68,500 72   | 68,100 72   | 67,600 72   |
| 460    | 6250             | 5 14             |  |   |   |   |   | 71,100 82   | 70,800 80   |
| 478    | 6500             | 5 56             |  |   |   |   |   | 74,200 92   | 73,800 92   |
| 496    | 6750             | 5 99             |  |   |   |   |   |   | 76,900 105  |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 ozs. per sq. inch                      | Static Pressure 1 1/4" Water .723 ozs. per sq. inch                     | Static Pressure 1 1/2" Water .878 ozs. per sq. inch                     | Static Pressure 1 3/4" Water 1.01 ozs. per sq. inch                     | Static Pressure 2" Water 1.16 ozs. per sq. inch                     | Static Pressure 2 1/4" Water 1.45 ozs. per sq. inch                     | Static Pressure 2 1/2" Water 1.73 ozs. per sq. inch                     |
| 221    | 3000             | 1 19             | 13,900 3 75  |   |   |   |   |   |   |
| 235    | 3200             | 1 35             | 25,000 7 5   | 2,490 2 3   |   |   |   |   |   |
| 250    | 3400             | 1 52             | 29,500 10 0  | 22,000 7 5  |   |   |   |   |   |
| 265    | 3600             | 1 71             | 33,300 12 5  | 28,500 11 0   | 6,040 3 75  |   |   |   |   |
| 280    | 3800             | 1 90             | 36,900 16 0  | 33,000 14 0   | 27,000 11 5   | 3,260 3 9   |   |   |   |
| 294    | 4000             | 2 11             | 40,000 19 0  | 36,800 17 5   | 32,600 15 5   | 24,800 11 5   |   |   |   |
| 309    | 4200             | 2 32             | 43,100 22 5  | 40,400 21   | 37,000 19 0   | 32,100 16 5   | 9,410 6 4   |   |   |
| 324    | 4400             | 2 55             | 46,000 27  | 43,500 25   | 40,900 28 5   | 37,100 21   | 31,300 17   |   |   |
| 338    | 4600             | 2 78             | 48,700 31  | 46,700 29   | 44,200 28   | 41,000 26   | 37,600 23   | 5,890 7 4   |   |
| 353    | 4800             | 3 03             | 51,500 35  | 49,600 34   | 47,500 33   | 44,700 31   | 41,500 28   | 30,800 21   |   |
| 368    | 5000             | 3 29             | 54,200 40  | 52,500 39   | 50,700 38   | 48,200 36   | 45,500 34   | 37,900 28   | 5,150 9 2   |
| 386    | 5250             | 3 63             | 57,400 46  | 56,000 46   | 54,200 45   | 52,400 43   | 49,900 41   | 44,000 36   | 33,300 27   |
| 405    | 5500             | 3 98             | 60,700 54  | 59,400 54   | 57,900 52   | 56,000 50   | 54,100 49   | 49,100 44   | 42,100 37   |
| 423    | 5750             | 4 35             | 63,700 62  | 62,700 62   | 61,400 60   | 59,700 60   | 57,900 58   | 53,800 52   | 48,100 47   |
| 441    | 6000             | 4 74             | 67,100 70  | 66,000 70   | 64,800 70   | 63,400 68   | 61,700 66   | 58,000 62   | 53,300 56   |
| 460    | 6250             | 5 14             | 70,200 80  | 69,300 80   | 68,100 78   | 66,700 78   | 65,300 76   | 62,000 72   | 57,900 68   |
| 478    | 6500             | 5 56             | 73,200 90  | 72,000 90   | 71,800 88   | 70,200 88   | 68,800 86   | 66,000 84   | 62,500 78   |
| 496    | 6750             | 5 99             | 76,400 100   | 75,600 100  | 74,500 100  | 73,500 98   | 72,400 98   | 69,600 94   | 66,500 90   |
| 515    | 7000             | 6 45             | 79,500 115   | 78,700 115  | 77,700 110  | 76,800 110  | 75,700 110  | 73,200 105  | 70,500 105  |
| 552    | 7500             | 7 40             | 85,500 140   | 84,800 140  | 84,000 140  | 83,100 135  | 82,100 135  | 80,200 135  | 78,000 130  |
| 588    | 8000             | 8 41             |  | 90,900 170  | 90,300 170  | 89,500 170  | 88,700 165  | 86,900 165  | 85,200 160  |
| 625    | 8500             | 9 50             |  | 97,100 205  | 96,300 205  | 95,600 205  | 95,000 200  | 93,300 200  | 91,900 195  |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 3 1/4" Water 2.02 ozs. per sq. inch                  | Static Pressure 4" Water 2.31 ozs. per sq. inch                         | Static Pressure 5" Water 2.89 ozs. per sq. inch                         | Static Pressure 6" Water 3.47 ozs. per sq. inch                         | Static Pressure 7" Water 4.05 ozs. per sq. inch                     | Static Pressure 8" Water 4.63 ozs. per sq. inch                         | Static Pressure 9" Water 5.2 ozs. per sq. inch                          |
| 105    | 5500             | 3 98             | 9,220 13 5   |   |   |   |   |   |   |
| 423    | 5750             | 4 35             | 39,400 38  |   |   |   |   |   |   |
| 441    | 6000             | 4 74             | 47,000 49  | 23,800 24   |   |   |   |   |   |
| 460    | 6250             | 5 14             | 52,800 60  | 45,500 52   |   |   |   |   |   |
| 478    | 6500             | 5 56             | 58,000 72  | 52,500 66   | 8,230 21  |   |   |   |   |
| 496    | 6750             | 5 99             | 62,500 84  | 58,000 78   | 40,900 54   |   |   |   |   |
| 515    | 7000             | 6 45             | 67,000 98  | 63,000 90   | 51,600 74   | 4,800 22 5  |   |   |   |
| 552    | 7500             | 7 40             | 75,200 125   | 72,000 120  | 63,600 105  | 50,400 84   | 3,760 27  |   |   |
| 588    | 8000             | 8 41             | 82,700 160   | 80,100 155  | 73,000 140  | 65,100 120  | 49,600 94   | 3,380 30  |   |
| 625    | 8500             | 9 50             | 89,600 195   | 87,500 190  | 82,500 175  | 75,400 160  | 67,300 140  | 45,100 110  |   |
| 662    | 9000             | 10 67            | 96,300 230   | 94,800 230  | 90,300 220  | 85,000 205  | 78,100 185  | 69,200 165  | 35,600 88   |
| 699    | 9500             | 11 80            | 103,000 275  | 102,000 275   | 97,900 265  | 93,300 250  | 87,700 235  | 81,000 215  | 72,400 190  |
| 735    | 10000            | 13 17            | 110,000 320  | 108,000 320   | 105,000 315   | 101,000 300   | 96,500 290  | 91,000 270  | 84,300 245  |

Single Inlet

**No. 11 Multivane Fan — Design 3**

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. |
|--------|------------------|------------------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|
|        |                  |                  | Static Pressure 1/2" Water .0722 oss. per sq. inch  |       | Static Pressure 1/2" Water .145 oss. per sq. inch   |       | Static Pressure 3/4" Water .217 oss. per sq. inch   |       | Static Pressure 1" Water .289 oss. per sq. inch     |       | Static Pressure 1 1/4" Water .361 oss. per sq. inch |       | Static Pressure 1 1/2" Water .434 oss. per sq. inch |       | Static Pressure 1 3/4" Water .506 oss. per sq. inch |       |
| 69     | 1075             | 152              | 2,980   | 0.125 |   |       |   |       |   |       |   |       |   |       |   |       |
| 78     | 1200             | 189              | 13,100  | 0.55  |   |       |   |       |   |       |   |       |   |       |   |       |
| 92     | 1400             | 258              | 17,600  | 1.05  | 467   | 0.21  |   |       |   |       |   |       |   |       |   |       |
| 105    | 1600             | 337              | 21,400  | 1.60  | 15,800  | 1.2   |   |       |   |       |   |       |   |       |   |       |
| 118    | 1800             | 426              | 24,700  | 2.35  | 21,000  | 2.0   | 3,810   | 0.59  |   |       |   |       |   |       |   |       |
| 131    | 2000             | 526              | 28,100  | 3.25  | 25,300  | 3.0   | 20,600  | 2.4   | 1,070   | 0.60  |   |       |   |       |   |       |
| 144    | 2200             | 636              | 31,200  | 4.4   | 29,100  | 4.2   | 25,700  | 3.7   | 20,100  | 2.85  | 367   | 0.72  |   |       |   |       |
| 157    | 2400             | 759              | 34,400  | 5.8   | 32,600  | 5.6   | 30,100  | 5.2   | 26,300  | 4.45  | 1,960   | 3.3   | 280   | 0.94  |   |       |
| 170    | 2600             | 889              | 37,400  | 7.4   | 35,900  | 7.1   | 33,900  | 6.8   | 31,000  | 6.2   | 27,000  | 5.3   | 19,400  | 3.95  |   |       |
| 183    | 2800             | 1 03             |   |       | 39,200  | 9.0   | 37,500  | 8.8   | 35,300  | 8.2   | 32,300  | 7.5   | 27,600  | 6.3   | 19,500  | 4.95  |
| 196    | 3000             | 1 19             |   |       | 42,500  | 11.0  | 41,000  | 11.0  | 39,100  | 10.5  | 36,700  | 9.8   | 33,700  | 8.9   | 29,800  | 7.9   |
| 209    | 3200             | 1 35             |   |       | 45,500  | 13.5  | 44,300  | 13.5  | 42,700  | 13.0  | 40,700  | 12.5  | 38,400  | 11.5  | 35,400  | 11.0  |
| 222    | 3400             | 1 52             |   |       | 48,700  | 16.5  | 47,500  | 16    | 46,100  | 16.0  | 44,500  | 15.5  | 42,700  | 14.5  | 40,200  | 13.5  |
| 235    | 3600             | 1 71             |   |       | 51,700  | 20.0  | 50,600  | 19    | 49,600  | 19.0  | 48,200  | 18.5  | 46,400  | 18.0  | 44,500  | 17    |
| 248    | 3800             | 1 90             |   |       | 54,900  | 23.5  | 53,900  | 23    | 52,700  | 22.5  | 51,600  | 22    | 50,100  | 21.5  | 48,400  | 21    |
| 262    | 4000             | 2 11             |   |       |   |       | 57,100  | 27    | 56,100  | 26    | 54,900  | 26    | 53,800  | 26    | 52,100  | 25    |
| 275    | 4200             | 2 32             |   |       |   |       | 60,200  | 31    | 59,100  | 31    | 58,200  | 30    | 57,200  | 30    | 55,900  | 29    |
| 288    | 4400             | 2 55             |   |       |   |       | 63,300  | 36    | 62,500  | 36    | 61,500  | 35    | 60,400  | 35    | 59,400  | 34    |
| 301    | 4600             | 2 78             |   |       |   |       | 66,400  | 41    | 65,600  | 40    | 64,800  | 40    | 63,800  | 39    | 62,800  | 39    |
| 314    | 4800             | 3 03             |   |       |   |       |   |       | 68,800  | 46    | 68,000  | 46    | 67,100  | 45    | 66,300  | 45    |
| 327    | 5000             | 3 29             |   |       |   |       |   |       | 71,900  | 52    | 71,100  | 52    | 70,300  | 52    | 69,500  | 50    |
| 343    | 5250             | 3 63             |   |       |   |       |   |       | 75,800  | 62    | 75,100  | 60    | 74,300  | 60    | 73,500  | 60    |
| 360    | 5500             | 3 98             |   |       |   |       |   |       |   |       | 78,900  | 70    | 78,000  | 68    | 77,400  | 68    |
| 376    | 5750             | 4 35             |   |       |   |       |   |       |   |       | 82,800  | 80    | 82,300  | 80    | 81,600  | 78    |
| 392    | 6000             | 4 74             |   |       |   |       |   |       |   |       | 86,700  | 92    | 86,100  | 90    | 85,500  | 90    |
| 408    | 6250             | 5 14             |   |       |   |       |   |       |   |       |   |       | 90,000  | 105   | 89,500  | 100   |
| 425    | 6500             | 5 56             |   |       |   |       |   |       |   |       |   |       | 93,900  | 115   | 93,300  | 115   |
| 441    | 6750             | 5 99             |   |       |   |       |   |       |   |       |   |       | 97,200  | 130   |   |       |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 oss. per sq. inch     |       | Static Pressure 1 1/4" Water .723 oss. per sq. inch |       | Static Pressure 1 1/2" Water .878 oss. per sq. inch |       | Static Pressure 1 3/4" Water 1.01 oss. per sq. inch |       | Static Pressure 2" Water 1.16 oss. per sq. inch     |       | Static Pressure 2 1/4" Water 1.45 oss. per sq. inch |       | Static Pressure 2 1/2" Water 1.73 oss. per sq. inch |       |
| 196    | 3000             | 1 19             | 17,500  | 4.75  |   |       |   |       |   |       |   |       |   |       |   |       |
| 209    | 3200             | 1 35             | 31,600  | 9.5   | 3,150   | 2.9   |   |       |   |       |   |       |   |       |   |       |
| 222    | 3400             | 1 52             | 37,300  | 12.5  | 27,800  | 9.5   |   |       |   |       |   |       |   |       |   |       |
| 235    | 3600             | 1 71             | 42,000  | 16    | 36,000  | 13.5  | 7,640   | 4.75  |   |       |   |       |   |       |   |       |
| 248    | 3800             | 1 90             | 46,600  | 20    | 41,700  | 17.5  | 34,200  | 14.5  | 4,130   | 4.9   |   |       |   |       |   |       |
| 262    | 4000             | 2 11             | 50,600  | 24    | 46,600  | 22    | 41,200  | 19.5  | 31,400  | 15    |   |       |   |       |   |       |
| 275    | 4200             | 2 32             | 54,500  | 29    | 51,100  | 27    | 46,700  | 24    | 40,600  | 21    | 11,900  | 8.1   |   |       |   |       |
| 288    | 4400             | 2 55             | 58,300  | 34    | 55,100  | 32    | 51,400  | 29    | 46,900  | 27    | 39,600  | 21.5  |   |       |   |       |
| 301    | 4600             | 2 78             | 61,600  | 39    | 59,100  | 37    | 55,900  | 35    | 51,900  | 33    | 47,600  | 29    | 7,450   | 9.4   |   |       |
| 314    | 4800             | 3 03             | 65,100  | 44    | 62,800  | 43    | 60,100  | 41    | 56,800  | 39    | 52,600  | 36    | 38,900  | 26    |   |       |
| 327    | 5000             | 3 29             | 68,500  | 50    | 66,500  | 49    | 64,100  | 48    | 61,000  | 46    | 57,600  | 43    | 47,900  | 35    | 6,510   | 11.5  |
| 343    | 5250             | 3 63             | 72,600  | 58    | 71,000  | 58    | 68,800  | 56    | 66,300  | 54    | 63,100  | 52    | 55,600  | 45    | 42,200  | 34    |
| 360    | 5500             | 3 98             | 76,800  | 68    | 75,100  | 68    | 73,200  | 66    | 71,000  | 64    | 68,500  | 62    | 62,100  | 56    | 53,200  | 47    |
| 376    | 5750             | 4 35             | 80,500  | 78    | 79,300  | 78    | 77,800  | 76    | 75,800  | 74    | 73,200  | 72    | 68,100  | 66    | 61,000  | 60    |
| 392    | 6000             | 4 74             | 84,900  | 90    | 83,500  | 88    | 82,000  | 88    | 80,100  | 86    | 78,100  | 84    | 73,400  | 78    | 67,400  | 72    |
| 408    | 6250             | 5 14             | 88,900  | 100   | 87,600  | 100   | 86,100  | 100   | 84,500  | 98    | 82,800  | 96    | 78,500  | 92    | 73,300  | 84    |
| 425    | 6500             | 5 56             | 92,600  | 115   | 91,100  | 115   | 90,100  | 110   | 88,900  | 110   | 87,100  | 110   | 83,500  | 105   | 79,000  | 100   |
| 441    | 6750             | 5 99             | 96,600  | 130   | 95,600  | 130   | 94,300  | 125   | 93,000  | 125   | 91,600  | 125   | 88,100  | 120   | 84,100  | 115   |
| 458    | 7000             | 6 45             | 100,000   | 145   | 99,500  | 145   | 98,200  | 140   | 97,100  | 140   | 95,800  | 140   | 92,800  | 135   | 89,100  | 130   |
| 490    | 7500             | 7 40             | 108,000   | 180   | 107,000   | 175   | 106,000   | 175   | 105,000   | 175   | 104,000   | 170   | 101,000   | 170   | 98,000  | 165   |
| 523    | 8000             | 8 41             | 115,000   | 215   | 114,000   | 215   | 113,000   | 215   | 112,000   | 210   | 111,000   | 210   | 110,000   | 205   | 108,000   | 205   |
| 555    | 8500             | 9 50             | 123,000   | 260   | 122,000   | 260   | 121,000   | 255   | 120,000   | 255   | 119,000   | 255   | 118,000   | 250   | 116,000   | 250   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 3 1/2" Water 2.02 oss. per sq. inch |       | Static Pressure 4" Water 2.31 oss. per sq. inch     |       | Static Pressure 5" Water 2.89 oss. per sq. inch     |       | Static Pressure 6" Water 3.47 oss. per sq. inch     |       | Static Pressure 7" Water 4.05 oss. per sq. inch     |       | Static Pressure 8" Water 4.63 oss. per sq. inch     |       | Static Pressure 9" Water 5.2 oss. per sq. inch      |       |
| 360    | 5500             | 3 98             | 11,700  | 17    |   |       |   |       |   |       |   |       |   |       |   |       |
| 376    | 5750             | 4 35             | 50,000  | 48    |   |       |   |       |   |       |   |       |   |       |   |       |
| 392    | 6000             | 4 74             | 59,500  | 62    | 30,000  | 30    |   |       |   |       |   |       |   |       |   |       |
| 408    | 6250             | 5 14             | 66,800  | 76    | 57,600  | 36    |   |       |   |       |   |       |   |       |   |       |
| 425    | 6500             | 5 56             | 73,500  | 90    | 66,500  | 82    | 10,400  | 27    |   |       |   |       |   |       |   |       |
| 441    | 6750             | 5 99             | 79,100  | 105   | 73,300  | 98    | 51,700  | 68    |   |       |   |       |   |       |   |       |
| 458    | 7000             | 6 45             | 84,900  | 125   | 79,600  | 115   | 65,300  | 94    | 6,080   | 28    |   |       |   |       |   |       |
| 490    | 7500             | 7 40             | 95,200  | 160   | 91,200  | 150   | 80,500  | 135   | 63,800  | 105   | 4,760   | 34    |   |       |   |       |
| 523    | 8000             | 8 41             | 105,000   | 200   | 101,000   | 195   | 93,200  | 175   | 82,400  | 155   | 62,800  | 120   | 4,270   | 38    |   |       |
| 555    | 8500             | 9 50             | 114,000   | 245   | 111,000   | 240   | 104,000   | 225   | 95,400  | 205   | 85,100  | 180   | 57,100  | 135   | 5,110   | 50    |
| 588    | 9000             | 10.67            | 122,000   | 290   | 120,000   | 290   | 114,000   | 275   | 108,000   | 260   | 98,800  | 235   | 87,500  | 205   | 45,100  | 110   |
| 620    | 9500             | 11.89            | 131,000   | 350   | 129,000   | 345   | 124,000   | 335   | 118,000   | 320   | 111,000   | 295   | 103,000   | 270   | 91,600  | 240   |
| 654    | 10000            | 13.17            | 139,000   | 405   | 137,000   | 405   | 133,000   | 395   | 128,000   | 380   | 122,000   | 365   | 115,000   | 340   | 107,000   | 310   |

Single Inlet

## No. 12 Multivane Fan — Design 3

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                     | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. |
|--------|------------------|------------------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|
|        |                  |                  | Static Pressure 1/2" Water .0722 ozs. per sq. inch  |       | Static Pressure 1/4" Water .145 ozs. per sq. inch   |       | Static Pressure 3/8" Water .217 ozs. per sq. inch   |       | Static Pressure 1/2" Water .289 ozs. per sq. inch   |       | Static Pressure 5/8" Water .361 ozs. per sq. inch |       | Static Pressure 3/4" Water .434 ozs. per sq. inch   |       | Static Pressure 7/8" Water .506 ozs. per sq. inch   |       |
| 62     | 1075             | 152              | 3,680   | 0.155 |   |       |   |       |   |       |   |       |   |       |   |       |
| 71     | 1200             | 189              | 16,200  | 0.68  |   |       |   |       |   |       |   |       |   |       |   |       |
| 82     | 1400             | 258              | 21,800  | 1.25  |   |       |   |       |   |       |   |       |   |       |   |       |
| 94     | 1600             | 337              | 26,400  | 2.00  | 19,400  | 1.45  |   |       |   |       |   |       |   |       |   |       |
| 106    | 1800             | 426              | 30,500  | 2.90  | 26,000  | 2.50  | 4,700   | 0.73  |   |       |   |       |   |       |   |       |
| 118    | 2000             | 526              | 34,600  | 4.05  | 31,200  | 3.75  | 25,400  | 2.95  | 1,320   | 0.74  |   |       |   |       |   |       |
| 129    | 2200             | 636              | 38,500  | 5.5   | 35,900  | 5.2   | 31,700  | 4.55  | 24,800  | 3.5   | 453   | 0.89  |   |       |   |       |
| 141    | 2400             | 759              | 42,400  | 7.1   | 40,200  | 6.9   | 37,100  | 6.4   | 32,500  | 5.5   | 24,100  | 4.1   | 346   | 1.15  |   |       |
| 153    | 2600             | 889              | 46,100  | 9.1   | 44,300  | 8.8   | 41,800  | 8.4   | 38,300  | 7.7   | 33,400  | 6.6   | 23,900  | 4.85  |   |       |
| 165    | 2800             | 1 03             |   |       | 48,400  | 11.0  | 46,200  | 11.0  | 43,500  | 10.0  | 39,800  | 9.2   | 34,000  | 7.8   | 24,100  | 6.1   |
| 177    | 3000             | 1 19             |   |       | 52,400  | 14.0  | 50,500  | 13.5  | 48,200  | 13.0  | 45,300  | 12.0  | 41,500  | 11.0  | 36,800  | 9.7   |
| 188    | 3200             | 1 35             |   |       | 56,200  | 17.0  | 54,700  | 16.5  | 52,700  | 16.0  | 50,300  | 15.5  | 47,400  | 14.5  | 43,600  | 13.5  |
| 200    | 3400             | 1 52             |   |       | 60,100  | 20.5  | 58,700  | 20.0  | 57,000  | 19.5  | 54,900  | 19.5  | 52,700  | 18    | 49,600  | 17    |
| 212    | 3600             | 1 71             |   |       | 63,900  | 24.5  | 62,500  | 23.5  | 61,100  | 23.5  | 59,500  | 23    | 57,200  | 22    | 55,000  | 21    |
| 224    | 3800             | 1 90             |   |       | 67,800  | 29    | 66,500  | 28    | 65,100  | 28    | 63,600  | 27    | 61,900  | 27    | 58,700  | 26    |
| 235    | 4000             | 2 11             |   |       |   |       | 70,500  | 33    | 69,200  | 32    | 67,800  | 32    | 66,400  | 32    | 64,200  | 31    |
| 247    | 4200             | 2 32             |   |       |   |       | 74,400  | 39    | 72,900  | 38    | 71,900  | 37    | 70,600  | 37    | 69,000  | 36    |
| 259    | 4400             | 2 55             |   |       |   |       | 78,000  | 45    | 77,100  | 44    | 76,000  | 43    | 74,500  | 43    | 73,400  | 42    |
| 271    | 4600             | 2 78             |   |       |   |       | 81,900  | 50    | 81,000  | 50    | 80,000  | 49    | 78,600  | 49    | 77,500  | 48    |
| 282    | 4800             | 3 03             |   |       |   |       |   |       | 85,000  | 58    | 83,900  | 56    | 82,900  | 56    | 81,800  | 56    |
| 294    | 5000             | 3 29             |   |       |   |       |   |       | 88,000  | 64    | 87,800  | 64    | 86,700  | 64    | 85,700  | 62    |
| 309    | 5250             | 3 63             |   |       |   |       |   |       | 93,500  | 76    | 92,600  | 74    | 91,600  | 74    | 90,600  | 74    |
| 324    | 5500             | 3 98             |   |       |   |       |   |       |   |       | 97,400  | 86    | 96,300  | 84    | 95,500  | 84    |
| 338    | 5750             | 4 35             |   |       |   |       |   |       |   |       | 102,000   | 100   | 101,500   | 98    | 101,000   | 98    |
| 353    | 6000             | 4 74             |   |       |   |       |   |       |   |       | 107,000   | 115   | 106,000   | 110   | 105,500   | 110   |
| 368    | 6250             | 5 14             |   |       |   |       |   |       |   |       |   |       | 106,000   | 125   | 110,000   | 125   |
| 382    | 6500             | 5 56             |   |       |   |       |   |       |   |       |   |       | 111,000   | 125   | 115,000   | 145   |
| 397    | 6750             | 5 99             |   |       |   |       |   |       |   |       |   |       | 116,000   | 145   | 120,000   | 160   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .575 ozs. per sq. inch     |       | Static Pressure 1 1/4" Water .723 ozs. per sq. inch |       | Static Pressure 1 1/2" Water .871 ozs. per sq. inch |       | Static Pressure 1 3/4" Water 1.01 ozs. per sq. inch |       | Static Pressure 2" Water 1.16 ozs. per sq. inch   |       | Static Pressure 2 1/4" Water 1.45 ozs. per sq. inch |       | Static Pressure 2 1/2" Water 1.73 ozs. per sq. inch |       |
| 177    | 3000             | 1 19             | 21,600  | 5.9   |   |       |   |       |   |       |   |       |   |       |   |       |
| 188    | 3200             | 1 35             | 39,000  | 11.5  | 3,890   | 3.55  |   |       |   |       |   |       |   |       |   |       |
| 200    | 3400             | 1 52             | 46,000  | 15.5  | 34,300  | 11.5  |   |       |   |       |   |       |   |       |   |       |
| 212    | 3600             | 1 71             | 51,900  | 20.0  | 44,500  | 17    | 9,420   | 5.8   |   |       |   |       |   |       |   |       |
| 224    | 3800             | 1 90             | 57,500  | 24.5  | 51,500  | 22    | 42,200  | 18    | 5,090   | 6.1   |   |       |   |       |   |       |
| 235    | 4000             | 2 11             | 62,500  | 30    | 57,500  | 27    | 50,900  | 24    | 38,700  | 18.5  |   |       |   |       |   |       |
| 247    | 4200             | 2 32             | 67,200  | 35    | 63,000  | 33    | 57,800  | 30    | 50,000  | 26    | 14,700  | 10    |   |       |   |       |
| 259    | 4400             | 2 55             | 71,000  | 41    | 68,000  | 37    | 63,500  | 36    | 57,900  | 33    | 48,800  | 27    |   |       |   |       |
| 271    | 4600             | 2 78             | 76,000  | 48    | 72,900  | 46    | 69,000  | 43    | 64,000  | 40    | 58,700  | 36    |   |       |   |       |
| 282    | 4800             | 3 03             | 80,400  | 54    | 77,500  | 54    | 74,100  | 50    | 69,800  | 48    | 64,900  | 44    | 9,190   | 11.5  |   |       |
| 294    | 5000             | 3 29             | 84,500  | 62    | 82,000  | 62    | 79,100  | 60    | 76,200  | 56    | 71,000  | 54    | 59,100  | 43    | 8,040   | 14.5  |
| 309    | 5250             | 3 63             | 89,600  | 72    | 87,500  | 72    | 84,700  | 70    | 81,800  | 68    | 77,900  | 64    | 68,700  | 56    | 52,000  | 42    |
| 324    | 5500             | 3 98             | 94,700  | 84    | 92,600  | 82    | 90,500  | 80    | 87,800  | 78    | 84,500  | 76    | 76,600  | 68    | 65,700  | 58    |
| 338    | 5750             | 4 35             | 99,500  | 96    | 97,900  | 96    | 95,800  | 94    | 93,800  | 92    | 90,400  | 88    | 84,100  | 82    | 75,200  | 72    |
| 353    | 6000             | 4 74             | 105,000   | 110   | 103,000   | 110   | 101,000   | 110   | 98,800  | 105   | 96,500  | 105   | 90,500  | 96    | 83,100  | 88    |
| 368    | 6250             | 5 14             | 109,500   | 125   | 108,000   | 125   | 106,000   | 125   | 104,000   | 120   | 102,000   | 120   | 96,800  | 115   | 90,400  | 105   |
| 382    | 6500             | 5 56             | 114,000   | 140   | 113,000   | 140   | 111,000   | 140   | 110,000   | 135   | 107,000   | 135   | 103,000   | 130   | 97,600  | 120   |
| 397    | 6750             | 5 99             | 119,000   | 160   | 118,000   | 160   | 116,000   | 155   | 115,000   | 155   | 113,000   | 150   | 109,000   | 145   | 104,000   | 140   |
| 412    | 7000             | 6 45             | 124,000   | 175   | 123,000   | 175   | 121,000   | 175   | 120,000   | 175   | 118,000   | 170   | 114,000   | 165   | 110,000   | 160   |
| 441    | 7500             | 7 40             | 133,000   | 220   | 132,000   | 220   | 131,000   | 215   | 130,000   | 215   | 128,000   | 210   | 125,000   | 210   | 122,000   | 205   |
| 471    | 8000             | 8 41             |   |       | 142,000   | 265   | 141,000   | 265   | 140,000   | 260   | 138,000   | 260   | 136,000   | 255   | 133,000   | 255   |
| 500    | 8500             | 9 50             |   |       | 152,000   | 320   | 150,000   | 320   | 149,000   | 315   | 148,000   | 315   | 146,000   | 310   | 143,000   | 305   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 3 1/2" Water 2.31 ozs. per sq. inch |       | Static Pressure 4" Water 2.62 ozs. per sq. inch     |       | Static Pressure 5" Water 2.89 ozs. per sq. inch     |       | Static Pressure 6" Water 3.47 ozs. per sq. inch     |       | Static Pressure 7" Water 4.05 ozs. per sq. inch   |       | Static Pressure 8" Water 4.63 ozs. per sq. inch     |       | Static Pressure 9" Water 5.2 ozs. per sq. inch      |       |
| 324    | 5500             | 3 98             | 14,400  | 21    |   |       |   |       |   |       |   |       |   |       |   |       |
| 338    | 5750             | 4 35             | 61,600  | 60    |   |       |   |       |   |       |   |       |   |       |   |       |
| 353    | 6000             | 4 74             | 73,500  | 76    | 37,100  | 37    |   |       |   |       |   |       |   |       |   |       |
| 368    | 6250             | 5 14             | 82,400  | 94    | 71,000  | 82    |   |       |   |       |   |       |   |       |   |       |
| 382    | 6500             | 5 56             | 90,600  | 110   | 82,000  | 100   | 12,800  | 33    |   |       |   |       |   |       |   |       |
| 397    | 6750             | 5 99             | 97,600  | 130   | 90,400  | 120   | 63,900  | 84    |   |       |   |       |   |       |   |       |
| 412    | 7000             | 6 45             | 105,000   | 150   | 98,300  | 140   | 80,600  | 115   | 7,500   | 35    |   |       |   |       |   |       |
| 441    | 7500             | 7 40             | 117,000   | 195   | 113,000   | 190   | 99,400  | 165   | 78,600  | 130   | 5,870   | 42    |   |       |   |       |
| 471    | 8000             | 8 41             | 129,000   | 245   | 125,000   | 240   | 115,000   | 215   | 102,000   | 190   | 77,400  | 145   | 5,270   | 47    |   |       |
| 500    | 8500             | 9 50             | 140,000   | 300   | 137,000   | 295   | 129,000   | 275   | 118,000   | 250   | 105,000   | 220   | 70,500  | 170   | 6,300   | 62    |
| 530    | 9000             | 10 67            | 150,000   | 360   | 148,000   | 355   | 141,000   | 340   | 133,000   | 320   | 122,000   | 290   | 108,000   | 255   | 55,600  | 140   |
| 559    | 9500             | 11 89            | 161,000   | 430   | 159,000   | 425   | 153,000   | 410   | 146,000   | 390   | 137,000   | 365   | 126,000   | 335   | 113,000   | 300   |
| 588    | 10000            | 13 17            | 172,000   | 500   | 169,000   | 500   | 164,000   | 490   | 158,000   | 470   | 151,000   | 450   | 142,000   | 420   | 132,000   | 385   |

Single Inlet

## No. 13 Multivane Fan — Design 3

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. |
|--------|------------------|------------------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|
|        |                  |                  | Static Pressure 1/8" Water .072 ozs. per sq. inch   |       | Static Pressure 1/4" Water .145 ozs. per sq. inch   |       | Static Pressure 3/8" Water .217 ozs. per sq. inch   |       | Static Pressure 1/2" Water .289 ozs. per sq. inch   |       | Static Pressure 5/8" Water .361 ozs. per sq. inch   |       | Static Pressure 3/4" Water .434 ozs. per sq. inch   |       | Static Pressure 7/8" Water .506 ozs. per sq. inch   |       |
| 56     | 1075             | .152             | 4,460   | 0.19  |   |       |   |       |   |       |   |       |   |       |   |       |
| 64     | 1200             | .189             | 19,700  | 0.83  |   |       |   |       |   |       |   |       |   |       |   |       |
| 75     | 1400             | .258             | 26,400  | 1.55  | 700   | 0.315 |   |       |   |       |   |       |   |       |   |       |
| 80     | 1600             | .337             | 32,000  | 2.40  | 23,600  | 1.75  |   |       |   |       |   |       |   |       |   |       |
| 96     | 1800             | .426             | 37,000  | 3.55  | 31,000  | 3.0   | 5,710   | 0.88  |   |       |   |       |   |       |   |       |
| 107    | 2000             | .526             | 42,000  | 4.9   | 37,900  | 4.5   | 30,800  | 3.6   | 1,600   | 0.80  |   |       |   |       |   |       |
| 118    | 2200             | .636             | 46,800  | 6.6   | 43,500  | 6.3   | 38,500  | 5.5   | 30,000  | 4.3   |   |       |   |       |   |       |
| 128    | 2400             | .759             | 51,500  | 8.7   | 48,700  | 8.3   | 45,000  | 7.7   | 39,400  | 6.7   | 550   | 1.1   |   |       |   |       |
| 139    | 2600             | .889             | 56,000  | 11    | 53,700  | 10.5  | 50,700  | 10.0  | 46,500  | 9.3   | 20,300  | 5.0   | 420   | 1.4   |   |       |
| 150    | 2800             | 1.03             |   |       | 58,700  | 13.5  | 56,000  | 13.0  | 52,900  | 12.5  |   |       | 29,000  | 5.9   | 29,200  | 7.4   |
| 160    | 3000             | 1.19             |   |       | 63,500  | 16.5  | 61,300  | 16.5  | 58,500  | 15.5  |   |       | 48,400  | 9.5   | 44,600  | 12.0  |
| 171    | 3200             | 1.35             |   |       | 68,200  | 20.5  | 66,300  | 20    | 64,000  | 19.5  |   |       | 50,500  | 13.5  | 53,000  | 16.0  |
| 182    | 3400             | 1.52             |   |       | 73,000  | 24.5  | 71,200  | 24    | 69,100  | 23.5  |   |       | 57,500  | 17.5  | 60,300  | 20.5  |
| 193    | 3600             | 1.71             |   |       | 77,500  | 30    | 75,800  | 29    | 74,200  | 28    |   |       | 64,000  | 22    | 66,700  | 26    |
| 203    | 3800             | 1.90             |   |       | 82,200  | 35    | 80,700  | 34    | 79,000  | 33    |   |       | 69,500  | 27    | 72,500  | 31    |
| 214    | 4000             | 2.11             |   |       |   |       | 85,500  | 40    | 84,000  | 39    |   |       | 75,100  | 32    | 78,000  | 37    |
| 225    | 4200             | 2.32             |   |       |   |       | 90,200  | 47    | 88,500  | 46    |   |       | 80,500  | 38    | 83,700  | 44    |
| 236    | 4400             | 2.55             |   |       |   |       | 94,700  | 54    | 93,500  | 54    |   |       | 85,700  | 45    | 89,000  | 52    |
| 246    | 4600             | 2.78             |   |       |   |       | 99,400  | 62    | 98,200  | 60    |   |       | 90,500  | 52    | 94,000  | 58    |
| 257    | 4800             | 3.03             |   |       |   |       |   |       | 103,000   | 70    |   |       | 95,500  | 60    | 99,200  | 68    |
| 268    | 5000             | 3.29             |   |       |   |       |   |       | 108,000   | 78    |   |       | 101,000   | 68    |   |       |
| 281    | 5250             | 3.63             |   |       |   |       |   |       | 113,000   | 92    |   |       | 105,000   | 76    | 104,000   | 76    |
| 294    | 5500             | 3.98             |   |       |   |       |   |       |   |       |   |       | 111,000   | 90    | 110,000   | 88    |
| 308    | 5750             | 4.35             |   |       |   |       |   |       |   |       |   |       | 117,000   | 105   | 116,000   | 105   |
| 321    | 6000             | 4.74             |   |       |   |       |   |       |   |       |   |       | 123,000   | 120   | 122,000   | 120   |
| 334    | 6250             | 5.14             |   |       |   |       |   |       |   |       |   |       | 129,000   | 135   | 128,000   | 135   |
| 348    | 6500             | 5.56             |   |       |   |       |   |       |   |       |   |       | 135,000   | 155   | 134,000   | 155   |
| 361    | 6750             | 5.99             |   |       |   |       |   |       |   |       |   |       | 141,000   | 175   | 140,000   | 175   |
|        |                  |                  |   |       |   |       |   |       |   |       |   |       | 146,000   | 195   |   |       |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 ozs. per sq. inch     |       | Static Pressure 1 1/4" Water .723 ozs. per sq. inch |       | Static Pressure 1 1/2" Water .878 ozs. per sq. inch |       | Static Pressure 1 3/4" Water 1.01 ozs. per sq. inch |       | Static Pressure 2" Water 1.16 ozs. per sq. inch     |       | Static Pressure 2 1/4" Water 1.31 ozs. per sq. inch |       | Static Pressure 2 1/2" Water 1.48 ozs. per sq. inch |       |
| 160    | 3000             | 1.19             | 26,200  | 7.1   |   |       |   |       |   |       |   |       |   |       |   |       |
| 171    | 3200             | 1.35             | 47,300  | 14    | 4,720   | 4.35  |   |       |   |       |   |       |   |       |   |       |
| 182    | 3400             | 1.52             | 55,900  | 19    | 41,600  | 14.0  |   |       |   |       |   |       |   |       |   |       |
| 193    | 3600             | 1.71             | 63,000  | 24    | 54,000  | 20.5  | 11,400  | 7.1   |   |       |   |       |   |       |   |       |
| 203    | 3800             | 1.90             | 69,900  | 30    | 62,500  | 26    | 51,200  | 21.5  | 6,170   | 7.4   |   |       |   |       |   |       |
| 214    | 4000             | 2.11             | 75,900  | 36    | 69,700  | 33    | 61,700  | 29    | 47,000  | 22    |   |       |   |       |   |       |
| 225    | 4200             | 2.32             | 81,500  | 43    | 76,500  | 40    | 70,000  | 36    | 60,700  | 31    | 17,800  | 12    |   |       |   |       |
| 236    | 4400             | 2.55             | 87,200  | 50    | 82,600  | 48    | 77,000  | 44    | 70,200  | 40    | 59,200  | 33    |   |       |   |       |
| 246    | 4600             | 2.78             | 92,200  | 58    | 88,500  | 56    | 83,700  | 52    | 77,700  | 49    | 71,200  | 44    | 11,200  | 14    |   |       |
| 257    | 4800             | 3.03             | 97,500  | 66    | 94,000  | 64    | 90,000  | 62    | 84,700  | 58    | 78,700  | 54    | 58,200  | 39    |   |       |
| 268    | 5000             | 3.29             | 103,000   | 76    | 99,500  | 74    | 95,000  | 72    | 91,400  | 68    | 86,100  | 64    | 71,700  | 52    | 9,750   | 17.5  |
| 281    | 5250             | 3.63             | 109,000   | 88    | 106,000   | 86    | 103,000   | 84    | 99,300  | 82    | 94,500  | 78    | 83,400  | 68    | 63,100  | 52    |
| 294    | 5500             | 3.98             | 115,000   | 100   | 113,000   | 100   | 110,000   | 100   | 106,000   | 96    | 102,000   | 92    | 93,000  | 82    | 70,700  | 70    |
| 308    | 5750             | 4.35             | 121,000   | 120   | 119,000   | 115   | 116,000   | 115   | 113,000   | 110   | 110,000   | 110   | 102,000   | 100   | 91,200  | 88    |
| 321    | 6000             | 4.74             | 127,000   | 135   | 125,000   | 130   | 123,000   | 130   | 120,000   | 125   | 117,000   | 125   | 110,000   | 120   | 101,000   | 105   |
| 334    | 6250             | 5.14             | 133,000   | 150   | 131,000   | 150   | 129,000   | 150   | 127,000   | 145   | 124,000   | 145   | 118,000   | 135   | 110,000   | 125   |
| 348    | 6500             | 5.56             | 139,000   | 170   | 137,000   | 170   | 135,000   | 170   | 133,000   | 165   | 130,000   | 165   | 125,000   | 160   | 118,000   | 150   |
| 361    | 6750             | 5.99             | 145,000   | 190   | 143,000   | 190   | 141,000   | 190   | 139,000   | 185   | 137,000   | 185   | 132,000   | 180   | 126,000   | 170   |
| 374    | 7000             | 6.45             | 150,000   | 215   | 149,000   | 215   | 147,000   | 210   | 145,000   | 210   | 143,000   | 205   | 139,000   | 200   | 133,000   | 195   |
| 401    | 7500             | 7.40             | 162,000   | 270   | 161,000   | 265   | 159,000   | 265   | 157,000   | 260   | 156,000   | 260   | 152,000   | 255   | 148,000   | 250   |
| 428    | 8000             | 8.41             | 170,000   | 320   | 172,000   | 320   | 171,000   | 320   | 170,000   | 320   | 168,000   | 315   | 165,000   | 310   | 161,000   | 305   |
| 455    | 8500             | 9.50             | 184,000   | 390   | 184,000   | 390   | 183,000   | 385   | 181,000   | 385   | 180,000   | 380   | 177,000   | 375   | 174,000   | 370   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 3 1/2" Water 2.02 ozs. per sq. inch |       | Static Pressure 4" Water 2.31 ozs. per sq. inch     |       | Static Pressure 4 1/2" Water 2.59 ozs. per sq. inch |       | Static Pressure 5" Water 2.87 ozs. per sq. inch     |       | Static Pressure 5 1/2" Water 3.15 ozs. per sq. inch |       | Static Pressure 6" Water 3.43 ozs. per sq. inch     |       | Static Pressure 6 1/2" Water 3.71 ozs. per sq. inch |       |
| 294    | 5500             | 3.98             | 17,500  | 25    |   |       |   |       |   |       |   |       |   |       |   |       |
| 308    | 5750             | 4.35             | 74,700  | 72    |   |       |   |       |   |       |   |       |   |       |   |       |
| 321    | 6000             | 4.74             | 89,100  | 94    | 45,000  | 45    |   |       |   |       |   |       |   |       |   |       |
| 334    | 6250             | 5.14             | 100,000   | 115   | 86,200  | 98    |   |       |   |       |   |       |   |       |   |       |
| 348    | 6500             | 5.56             | 110,000   | 135   | 99,500  | 125   | 15,600  | 40    |   |       |   |       |   |       |   |       |
| 361    | 6750             | 5.99             | 118,000   | 160   | 110,000   | 145   | 77,500  | 105   |   |       |   |       |   |       |   |       |
| 374    | 7000             | 6.45             | 127,000   | 185   | 119,000   | 170   |   |       | 97,800  | 140   |   |       |   |       |   |       |
| 401    | 7500             | 7.40             | 143,000   | 240   | 137,000   | 230   | 121,000   | 200   | 95,500  | 160   | 7,120   | 50    |   |       |   |       |
| 428    | 8000             | 8.41             | 157,000   | 300   | 152,000   | 290   | 140,000   | 265   | 123,000   | 230   | 94,000  | 175   |   |       |   |       |
| 455    | 8500             | 9.50             | 170,000   | 365   | 166,000   | 355   | 156,000   | 335   | 143,000   | 305   | 128,000   | 270   | 6,400   | 56    |   |       |
| 481    | 9000             | 10.67            | 183,000   | 440   | 180,000   | 435   | 171,000   | 415   | 161,000   | 390   | 148,000   | 355   | 131,000   | 310   | 67,500  | 170   |
| 508    | 9500             | 11.89            | 196,000   | 520   | 192,000   | 520   | 185,000   | 500   | 177,000   | 475   | 166,000   | 445   | 153,000   | 405   | 137,000   | 360   |
| 535    | 10000            | 13.17            | 208,000   | 610   | 205,000   | 605   | 199,000   | 595   | 192,000   | 570   | 183,000   | 545   | 173,000   | 510   | 160,000   | 470   |

Single Inlet

## No. 14 Multivane Fan — Design 3

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.                                       | H. P.   | Volume C.F.M.                                       | H. P.   | Volume C.F.M.                                       | H. P.   | Volume C.F.M.                                     | H. P. | Volume C.F.M. | H. P. | Volume C.F.M. | H. P. | Volume C.F.M. | H. P. |
|--------|------------------|------------------|---|---|---|---|---|---|---|-------|---------------|-------|---------------|-------|---------------|-------|
|        |                  |                  | Static Pressure 1/4" Water .0722 ozs. per sq. inch  | Static Pressure 1/4" Water .145 ozs. per sq. inch   | Static Pressure 3/8" Water .217 ozs. per sq. inch   | Static Pressure 1/2" Water .289 ozs. per sq. inch | Static Pressure 5/8" Water .361 ozs. per sq. inch   | Static Pressure 3/4" Water .434 ozs. per sq. inch   | Static Pressure 7/8" Water .506 ozs. per sq. inch |       |               |       |               |       |               |       |
| 52     | 1075             | 152              | 5,300   | 0.225   |   |   |   |   |   |       |               |       |               |       |               |       |
| 59     | 1200             | 189              | 23,400  | 0.99  |   |   |   |   |   |       |               |       |               |       |               |       |
| 69     | 1400             | 258              | 31,400  | 1.85  | 831   | 0.375   |   |   |   |       |               |       |               |       |               |       |
| 78     | 1600             | 337              | 38,000  | 2.9   | 28,000  | 2.1   |   |   |   |       |               |       |               |       |               |       |
| 88     | 1800             | 426              | 44,000  | 4.2   | 37,400  | 3.6   | 6,790   | 1.05  |   |       |               |       |               |       |               |       |
| 98     | 2000             | 526              | 49,900  | 5.8   | 45,000  | 5.4   | 36,700  | 4.3   | 1,900   | 1.05  |               |       |               |       |               |       |
| 108    | 2200             | 636              | 55,500  | 7.9   | 51,800  | 7.5   | 45,800  | 6.5   | 35,700  | 5.1   |               |       |               |       |               |       |
| 118    | 2400             | 759              | 61,200  | 10.5  | 57,900  | 9.9   | 53,500  | 9.2   | 46,800  | 7.9   | 654           | 1.3   |               |       |               |       |
| 128    | 2600             | 880              | 66,500  | 13  | 63,900  | 12.5  | 60,300  | 12.0  | 55,200  | 11.0  | 34,800        | 5.9   | 499           | 1.7   |               |       |
| 137    | 2800             | 1,03             |   |   | 69,800  | 16  | 66,600  | 15.5  | 62,800  | 14.5  | 48,100        | 9.5   | 34,500        | 7.0   |               |       |
| 147    | 3000             | 1,19             |   |   | 75,500  | 20  | 73,000  | 19.5  | 69,500  | 18.5  | 57,500        | 13.5  | 49,000        | 11.5  | 34,800        | 8.8   |
| 157    | 3200             | 1,35             |   |   | 81,000  | 24  | 78,900  | 24  | 76,000  | 23    | 65,300        | 17.5  | 59,900        | 16.0  | 53,000        | 14.0  |
| 167    | 3400             | 1,52             |   |   | 86,700  | 29  | 84,600  | 29  | 82,100  | 28    | 72,500        | 22    | 68,300        | 20.5  | 63,000        | 19.5  |
| 177    | 3600             | 1,71             |   |   | 92,000  | 35  | 90,100  | 34  | 88,200  | 34    | 79,000        | 28    | 76,000        | 26    | 71,600        | 24.5  |
| 186    | 3800             | 1,90             |   |   | 97,700  | 42  | 96,000  | 41  | 93,800  | 40    | 85,800        | 33    | 82,500        | 32    | 79,300        | 31    |
| 196    | 4000             | 2,11             |   |   |   |   | 102,000   | 48  | 99,700  | 47    | 91,800        | 39    | 89,200        | 38    | 86,100        | 37    |
| 206    | 4200             | 2,32             |   |   |   |   | 107,000   | 56  | 105,000   | 54    | 97,600        | 46    | 95,700        | 45    | 92,600        | 44    |
| 216    | 4400             | 2,55             |   |   |   |   | 113,000   | 64  | 111,000   | 64    | 104,000       | 54    | 102,000       | 54    | 99,500        | 52    |
| 226    | 4600             | 2,78             |   |   |   |   | 118,000   | 74  | 117,000   | 72    | 110,000       | 62    | 107,000       | 62    | 106,000       | 60    |
| 235    | 4800             | 3,03             |   |   |   |   |   |   | 122,000   | 82    | 115,000       | 72    | 113,000       | 70    | 112,000       | 70    |
| 245    | 5000             | 3,29             |   |   |   |   |   |   | 128,000   | 94    | 121,000       | 82    | 119,000       | 80    | 118,000       | 80    |
| 257    | 5250             | 3,63             |   |   |   |   |   |   | 135,000   | 110   | 127,000       | 92    | 125,000       | 92    | 124,000       | 90    |
| 270    | 5500             | 3,98             |   |   |   |   |   |   | 140,000   | 125   | 134,000       | 110   | 132,000       | 105   | 131,000       | 105   |
| 282    | 5750             | 4,35             |   |   |   |   |   |   | 147,000   | 145   | 140,000       | 125   | 139,000       | 125   | 138,000       | 120   |
| 294    | 6000             | 4,74             |   |   |   |   |   |   | 154,000   | 165   | 146,000       | 140   | 145,000       | 140   | 145,000       | 140   |
| 306    | 6250             | 5,14             |   |   |   |   |   |   |   |       | 153,000       | 160   | 152,000       | 160   | 152,000       | 160   |
| 319    | 6500             | 5,56             |   |   |   |   |   |   |   |       | 160,000       | 185   | 159,000       | 180   | 159,000       | 180   |
| 331    | 6750             | 5,99             |   |   |   |   |   |   |   |       | 167,000       | 205   | 166,000       | 205   | 166,000       | 205   |
|        |                  |                  |   |   |   |   |   |   |   |       |               |       | 173,000       | 230   |               | 230   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1 1/4" Water .578 ozs. per sq. inch | Static Pressure 1 1/2" Water .723 ozs. per sq. inch | Static Pressure 1 3/4" Water .878 ozs. per sq. inch | Static Pressure 2" Water 1.01 ozs. per sq. inch   | Static Pressure 2 1/4" Water 1.16 ozs. per sq. inch | Static Pressure 2 1/2" Water 1.45 ozs. per sq. inch | Static Pressure 3" Water 1.73 ozs. per sq. inch   |       |               |       |               |       |               |       |
| 147    | 3000             | 1,19             | 31,200  | 8.4   |   |   |   |   |   |       |               |       |               |       |               |       |
| 157    | 3200             | 1,35             | 56,100  | 17.0  | 5,600   | 5.1   |   |   |   |       |               |       |               |       |               |       |
| 167    | 3400             | 1,52             | 66,400  | 22.5  | 49,400  | 17.0  |   |   |   |       |               |       |               |       |               |       |
| 177    | 3600             | 1,71             | 74,900  | 29  | 64,100  | 24.5  | 13,600  | 8.4   |   |       |               |       |               |       |               |       |
| 186    | 3800             | 1,90             | 83,000  | 36  | 74,300  | 31  | 60,900  | 26  | 7,340   | 8.8   |               |       |               |       |               |       |
| 196    | 4000             | 2,11             | 90,100  | 43  | 82,900  | 39  | 73,400  | 34  | 55,800  | 26    |               |       |               |       |               |       |
| 206    | 4200             | 2,32             | 96,900  | 50  | 90,900  | 47  | 83,100  | 43  | 72,200  | 37    | 21,200        | 14.5  |               |       |               |       |
| 216    | 4400             | 2,55             | 104,000   | 60  | 98,000  | 56  | 91,500  | 52  | 83,500  | 47    | 70,400        | 39    |               |       |               |       |
| 226    | 4600             | 2,78             | 110,000   | 68  | 105,000   | 66  | 99,500  | 62  | 92,400  | 58    | 84,600        | 52    | 13,300        | 16.5  |               |       |
| 235    | 4800             | 3,03             | 116,000   | 78  | 112,000   | 76  | 107,000   | 74  | 101,000   | 68    | 93,500        | 64    | 69,200        | 47    |               |       |
| 245    | 5000             | 3,29             | 122,000   | 90  | 118,000   | 88  | 114,000   | 80  | 109,000   | 82    | 102,000       | 76    | 85,200        | 62    | 11,600        | 20.5  |
| 257    | 5250             | 3,63             | 129,000   | 105   | 126,000   | 105   | 122,000   | 100   | 118,000   | 96    | 112,000       | 92    | 99,000        | 80    | 75,000        | 60    |
| 270    | 5500             | 3,98             | 137,000   | 120   | 134,000   | 120   | 130,000   | 120   | 126,000   | 115   | 122,000       | 110   | 110,000       | 98    | 94,700        | 84    |
| 282    | 5750             | 4,35             | 143,000   | 140   | 141,000   | 140   | 138,000   | 138   | 134,000   | 135   | 130,000       | 130   | 121,000       | 120   | 108,000       | 105   |
| 294    | 6000             | 4,74             | 151,000   | 160   | 149,000   | 155   | 146,000   | 155   | 143,000   | 150   | 139,000       | 150   | 131,000       | 140   | 120,000       | 125   |
| 306    | 6250             | 5,14             | 158,000   | 180   | 156,000   | 180   | 153,000   | 175   | 150,000   | 175   | 147,000       | 170   | 140,000       | 165   | 130,000       | 150   |
| 319    | 6500             | 5,56             | 165,000   | 205   | 162,000   | 200   | 160,000   | 200   | 158,000   | 195   | 155,000       | 195   | 148,000       | 185   | 141,000       | 175   |
| 331    | 6750             | 5,99             | 172,000   | 230   | 170,000   | 225   | 168,000   | 225   | 166,000   | 220   | 163,000       | 220   | 157,000       | 215   | 150,000       | 205   |
| 343    | 7000             | 6,45             | 179,000   | 255   | 177,000   | 255   | 175,000   | 255   | 173,000   | 250   | 170,000       | 245   | 165,000       | 240   | 158,000       | 230   |
| 368    | 7500             | 7,40             | 192,000   | 320   | 191,000   | 315   | 189,000   | 315   | 187,000   | 310   | 185,000       | 305   | 180,000       | 300   | 176,000       | 295   |
| 392    | 8000             | 8,41             |   |   | 205,000   | 380   | 203,000   | 380   | 202,000   | 380   | 200,000       | 375   | 196,000       | 370   | 192,000       | 365   |
| 416    | 8500             | 9,50             |   |   | 219,000   | 465   | 217,000   | 460   | 215,000   | 455   | 214,000       | 450   | 210,000       | 445   | 207,000       | 445   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 3 1/4" Water 2.02 ozs. per sq. inch | Static Pressure 3 1/2" Water 2.31 ozs. per sq. inch | Static Pressure 3 3/4" Water 2.69 ozs. per sq. inch | Static Pressure 4" Water 3.47 ozs. per sq. inch   | Static Pressure 4 1/4" Water 4.05 ozs. per sq. inch | Static Pressure 4 1/2" Water 4.63 ozs. per sq. inch | Static Pressure 5" Water 5.2 ozs. per sq. inch    |       |               |       |               |       |               |       |
| 270    | 5500             | 3,98             | 20,800  | 30  |   |   |   |   |   |       |               |       |               |       |               |       |
| 282    | 5750             | 4,35             | 88,800  | 86  |   |   |   |   |   |       |               |       |               |       |               |       |
| 294    | 6000             | 4,74             | 106,000   | 110   | 53,500  | 54  |   |   |   |       |               |       |               |       |               |       |
| 306    | 6250             | 5,14             | 119,000   | 135   | 102,000   | 115   |   |   |   |       |               |       |               |       |               |       |
| 319    | 6500             | 5,56             | 131,000   | 160   | 118,000   | 145   | 18,500  | 47  |   |       |               |       |               |       |               |       |
| 331    | 6750             | 5,99             | 141,000   | 190   | 130,000   | 175   | 92,000  | 120   |   |       |               |       |               |       |               |       |
| 343    | 7000             | 6,45             | 151,000   | 220   | 142,000   | 205   | 116,000   | 165   | 10,800  | 50    |               |       |               |       |               |       |
| 368    | 7500             | 7,40             | 169,000   | 285   | 162,000   | 270   | 143,000   | 235   | 113,000   | 190   | 8,460         | 60    |               |       |               |       |
| 392    | 8000             | 8,41             | 186,000   | 355   | 180,000   | 345   | 166,000   | 310   | 146,000   | 275   | 112,000       | 210   | 7,600         | 68    |               |       |
| 416    | 8500             | 9,50             | 202,000   | 435   | 197,000   | 425   | 186,000   | 400   | 170,000   | 365   | 151,000       | 320   | 102,000       | 245   | 9,000         | 88    |
| 441    | 9000             | 10,67            | 217,000   | 520   | 214,000   | 515   | 203,000   | 490   | 191,000   | 465   | 176,000       | 420   | 156,000       | 370   | 80,100        | 206   |
| 465    | 9500             | 11,89            | 232,000   | 620   | 228,000   | 615   | 220,000   | 590   | 210,000   | 565   | 197,000       | 530   | 182,000       | 485   | 163,000       | 430   |
| 490    | 10000            | 13,17            | 247,000   | 725   | 244,000   | 720   | 237,000   | 705   | 228,000   | 675   | 217,000       | 650   | 205,000       | 605   | 190,000       | 555   |

Single Inlet

**No. 15 Multivane Fan — Design 3**

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.<br>Static Pressure<br>1/2" Water<br>.0722 ozs. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure<br>1/4" Water<br>.145 ozs. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure<br>3/8" Water<br>.217 ozs. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure<br>1/2" Water<br>.289 ozs. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure<br>5/8" Water<br>.361 ozs. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure<br>3/4" Water<br>.434 ozs. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure<br>7/8" Water<br>.506 ozs. per sq. inch | H. P. |
|--------|------------------|------------------|---|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|
| 48     | 1075             | 152              | 6,200   | 0.265 |  |       |  |       |  |       |  |       |  |       |  |       |
| 54     | 1200             | 189              | 27,400  | 1.15  |  |       |  |       |  |       |  |       |  |       |  |       |
| 63     | 1400             | 258              | 36,700  | 2.15  | 974  | 0.44  |  |       |  |       |  |       |  |       |  |       |
| 72     | 1600             | 337              | 44,500  | 3.40  | 32,800   | 2.45  |  |       |  |       |  |       |  |       |  |       |
| 81     | 1800             | 426              | 51,500  | 4.95  | 44,000   | 4.2   | 7,950  | 1.25  |  |       |  |       |  |       |  |       |
| 91     | 2000             | 526              | 58,500  | 6.8   | 52,800   | 6.3   | 43,000   | 5.0   | 2,230  | 1.25  |  |       |  |       |  |       |
| 99     | 2200             | 636              | 65,100  | 9.2   | 60,600   | 8.7   | 53,000   | 7.7   | 41,800   | 5.9   |  |       |  |       |  |       |
| 109    | 2400             | 759              | 71,700  | 12.0  | 67,900   | 11.5  | 62,600   | 10.5  | 54,800   | 9.3   | 765  | 1.5   |  |       |  |       |
| 118    | 2600             | 889              | 78,000  | 15.5  | 74,800   | 15.0  | 70,800   | 14.0  | 64,700   | 13    | 40,800   | 6.9   | 585  | 1.95  |  |       |
| 127    | 2800             | 1 03             |   |       | 81,800   | 19.0  | 78,100   | 18.5  | 73,500   | 17    | 56,400   | 11.0  | 40,400   | 8.2   |  |       |
| 136    | 3000             | 1 19             |   |       | 88,500   | 23.5  | 85,500   | 23    | 81,400   | 22    | 67,400   | 15.5  | 57,500   | 13.0  | 40,700   | 10.5  |
| 145    | 3200             | 1 35             |   |       | 95,000   | 28    | 92,400   | 28    | 89,000   | 27    | 76,500   | 20.5  | 70,200   | 18.5  | 62,000   | 16.5  |
| 154    | 3400             | 1 52             |   |       | 102,000  | 34    | 99,100   | 34    | 96,200   | 33    | 84,900   | 26    | 80,000   | 24.5  | 73,700   | 22.5  |
| 163    | 3600             | 1 71             |   |       | 108,000  | 41    | 106,000  | 40    | 103,000  | 40    | 92,700   | 33    | 89,100   | 31    | 83,900   | 29    |
| 172    | 3800             | 1 90             |   |       | 114,000  | 49    | 112,000  | 48    | 110,000  | 47    | 101,000  | 39    | 96,800   | 37    | 92,000   | 36    |
| 181    | 4000             | 2 11             |   |       |  |       | 119,000  | 56    | 117,000  | 54    | 108,000  | 46    | 105,000  | 45    | 101,000  | 43    |
| 190    | 4200             | 2 32             |   |       |  |       | 126,000  | 66    | 123,000  | 64    | 115,000  | 54    | 112,000  | 54    | 109,000  | 52    |
| 199    | 4400             | 2 55             |   |       |  |       | 132,000  | 76    | 130,000  | 74    | 121,000  | 64    | 119,000  | 62    | 117,000  | 62    |
| 208    | 4600             | 2 78             |   |       |  |       | 138,000  | 86    | 137,000  | 84    | 128,000  | 74    | 126,000  | 72    | 124,000  | 70    |
| 217    | 4800             | 3 03             |   |       |  |       |  |       | 144,000  | 96    | 135,000  | 84    | 133,000  | 82    | 131,000  | 82    |
| 226    | 5000             | 3 29             |   |       |  |       |  |       | 150,000  | 110   | 142,000  | 96    | 140,000  | 94    | 138,000  | 94    |
| 238    | 5250             | 3 63             |   |       |  |       |  |       | 158,000  | 130   | 148,000  | 110   | 147,000  | 105   | 145,000  | 105   |
| 249    | 5500             | 4 98             |   |       |  |       |  |       |  |       | 157,000  | 125   | 155,000  | 125   | 153,000  | 125   |
| 260    | 5750             | 4 35             |   |       |  |       |  |       |  |       | 165,000  | 145   | 163,000  | 145   | 161,000  | 145   |
| 272    | 6000             | 4 74             |   |       |  |       |  |       |  |       | 173,000  | 170   | 171,000  | 165   | 170,000  | 165   |
| 283    | 6250             | 5 14             |   |       |  |       |  |       |  |       | 181,000  | 190   | 180,000  | 160   | 178,000  | 190   |
| 294    | 6500             | 5 56             |   |       |  |       |  |       |  |       |  |       | 188,000  | 215   | 187,000  | 215   |
| 305    | 6750             | 5 99             |   |       |  |       |  |       |  |       |  |       | 196,000  | 245   | 194,000  | 240   |
| 317    | 7000             | 6 45             |   |       |  |       |  |       |  |       |  |       |  |       | 203,000  | 270   |
| 340    | 7500             | 7 40             |   |       |  |       |  |       |  |       |  |       |  |       |  |       |
| 362    | 8000             | 8 41             |   |       |  |       |  |       |  |       |  |       |  |       |  |       |
| 384    | 8500             | 9 50             |   |       |  |       |  |       |  |       |  |       |  |       |  |       |
| 136    | 3000             | 1 19             | 36,500  | 9.9   |  |       |  |       |  |       |  |       |  |       |  |       |
| 145    | 3200             | 1 35             | 65,800  | 20    | 6,060  | 6.0   |  |       |  |       |  |       |  |       |  |       |
| 154    | 3400             | 1 52             | 77,700  | 26    | 57,900   | 19.5  |  |       |  |       |  |       |  |       |  |       |
| 163    | 3600             | 1 71             | 87,600  | 34    | 75,100   | 28    | 15,900   | 9.9   |  |       |  |       |  |       |  |       |
| 172    | 3800             | 1 90             | 97,200  | 42    | 87,000   | 37    | 71,300   | 30    | 8,600  |       |  |       |  |       |  |       |
| 181    | 4000             | 2 11             | 106,000   | 50    | 97,100   | 46    | 85,900   | 40    | 66,400   | 31    |  |       |  |       |  |       |
| 190    | 4200             | 2 32             | 114,000   | 60    | 106,000  | 56    | 97,400   | 50    | 84,600   | 44    | 24,800   | 17    |  |       |  |       |
| 199    | 4400             | 2 55             | 121,000   | 70    | 115,000  | 66    | 107,000  | 62    | 97,700   | 56    | 82,500   | 45    |  |       |  |       |
| 208    | 4600             | 2 78             | 128,000   | 80    | 123,000  | 78    | 117,000  | 74    | 108,000  | 68    | 99,200   | 62    | 15,500   | 19.5  |  |       |
| 217    | 4800             | 3 03             | 136,000   | 92    | 131,000  | 90    | 125,000  | 86    | 118,000  | 80    | 110,000  | 74    | 81,000   | 54    |  |       |
| 226    | 5000             | 3 29             | 143,000   | 105   | 139,000  | 105   | 134,000  | 100   | 127,600  | 94    | 120,000  | 90    |  |       | 13,600   | 24    |
| 238    | 5250             | 3 63             | 151,000   | 125   | 148,000  | 120   | 143,000  | 120   | 138,000  | 115   | 182,000  | 110   | 116,000  | 94    | 87,900   | 72    |
| 249    | 5500             | 3 98             | 160,000   | 140   | 157,000  | 140   | 153,000  | 140   | 148,000  | 135   | 143,000  | 130   | 129,000  | 115   | 111,000  | 98    |
| 260    | 5750             | 4 35             | 168,000   | 165   | 165,000  | 160   | 162,000  | 160   | 158,000  | 155   | 153,000  | 150   | 142,000  | 140   | 127,000  | 125   |
| 272    | 6000             | 4 74             | 177,000   | 185   | 174,000  | 185   | 171,000  | 185   | 167,000  | 180   | 163,000  | 175   | 153,000  | 165   | 140,000  | 150   |
| 283    | 6250             | 5 14             | 185,000   | 210   | 183,000  | 210   | 180,000  | 205   | 176,000  | 205   | 172,000  | 200   | 164,000  | 190   | 153,000  | 175   |
| 294    | 6500             | 5 56             | 193,000   | 240   | 190,000  | 235   | 188,000  | 235   | 185,000  | 230   | 181,000  | 230   | 174,000  | 220   | 165,000  | 205   |
| 305    | 6750             | 5 99             | 201,000   | 270   | 199,000  | 265   | 197,000  | 265   | 194,000  | 260   | 191,000  | 255   | 184,000  | 250   | 175,000  | 240   |
| 317    | 7000             | 6 45             | 209,000   | 300   | 207,000  | 300   | 205,000  | 295   | 203,000  | 290   | 200,000  | 290   | 193,000  | 280   | 186,000  | 270   |
| 340    | 7500             | 7 40             | 225,000   | 370   | 224,000  | 370   | 221,000  | 365   | 219,000  | 360   | 217,000  | 360   | 212,000  | 355   | 206,000  | 345   |
| 362    | 8000             | 8 41             |   |       | 240,000  | 450   | 238,000  | 445   | 236,000  | 445   | 234,000  | 435   | 229,000  | 430   | 225,000  | 425   |
| 384    | 8500             | 9 50             |   |       | 256,000  | 545   | 254,000  | 540   | 252,000  | 535   | 250,000  | 530   | 246,000  | 525   | 242,000  | 520   |
| 249    | 5500             | 3 98             | 24,300  | 35    |  |       |  |       |  |       |  |       |  |       |  |       |
| 260    | 5750             | 4 35             | 104,000   | 100   |  |       |  |       |  |       |  |       |  |       |  |       |
| 272    | 6000             | 4 74             | 124,000   | 130   | 62,600   | 64    |  |       |  |       |  |       |  |       |  |       |
| 283    | 6250             | 5 14             | 139,000   | 160   | 120,000  | 135   |  |       |  |       |  |       |  |       |  |       |
| 294    | 6500             | 5 56             | 153,000   | 190   | 139,000  | 170   | 21,700   | 56    |  |       |  |       |  |       |  |       |
| 305    | 6750             | 5 99             | 165,000   | 220   | 153,000  | 205   | 108,000  | 145   |  |       |  |       |  |       |  |       |
| 317    | 7000             | 6 45             | 177,000   | 260   | 166,000  | 240   | 136,000  | 195   | 12,700   | 60    |  |       |  |       |  |       |
| 340    | 7500             | 7 40             | 198,000   | 330   | 190,000  | 315   | 168,000  | 275   | 133,000  | 220   | 9,910  | 70    |  |       |  |       |
| 362    | 8000             | 8 41             | 218,000   | 415   | 211,000  | 405   | 194,000  | 365   | 172,000  | 320   | 131,000  | 245   |  |       |  |       |
| 384    | 8500             | 9 50             | 237,000   | 510   | 231,000  | 495   | 218,000  | 465   | 199,000  | 425   | 177,000  | 375   | 8,900  | 80    | 119,000  | 285   |
| 407    | 9000             | 10 67            | 254,000   | 610   | 250,000  | 605   | 238,000  | 575   | 224,000  | 545   | 208,000  | 495   | 183,000  | 430   | 94,000   | 235   |
| 430    | 9500             | 11 89            | 272,000   | 725   | 268,000  | 720   | 258,000  | 695   | 246,000  | 660   | 231,000  | 620   | 214,000  | 565   | 191,000  | 505   |
| 452    | 10000            | 13 17            | 290,000   | 845   | 286,000  | 845   | 278,000  | 825   | 267,000  | 795   | 254,000  | 760   | 240,000  | 710   | 222,000  | 650   |

Single Inlet

## No. 16 Multivane Fan — Design 3

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.                                       | H. P.   | Volume C.F.M.                                       | H. P.   | Volume C.F.M.                                   | H. P.   | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                   | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                   | H. P. |
|--------|------------------|------------------|---|---|---|---|---|---|---|-------|---|-------|---|-------|---|-------|
|        |                  |                  | Static Pressure 1" Water .0722 ozs. per sq. inch    |   | Static Pressure 1 1/2" Water .145 ozs. per sq. inch |   | Static Pressure 2" Water .217 ozs. per sq. inch |   | Static Pressure 2 1/2" Water .289 ozs. per sq. inch |       | Static Pressure 3" Water .361 ozs. per sq. inch |       | Static Pressure 3 1/2" Water .434 ozs. per sq. inch |       | Static Pressure 4" Water .506 ozs. per sq. inch |       |
| 44     | 1075             | 152              | 7,200   | 0.305   |   |   |   |   |   |       |   |       |   |       |   |       |
| 50     | 1200             | 189              | 31,800  | 1.35  |   |   |   |   |   |       |   |       |   |       |   |       |
| 59     | 1400             | 258              | 42,600  | 2.5   | 1,130   | 0.51  |   |   |   |       |   |       |   |       |   |       |
| 67     | 1600             | 337              | 51,600  | 3.9   | 38,100  | 2.85  |   |   |   |       |   |       |   |       |   |       |
| 76     | 1800             | 426              | 59,900  | 5.7   | 51,000  | 4.85  | 9,220   | 1.45  |   |       |   |       |   |       |   |       |
| 81     | 2000             | 526              | 67,800  | 7.9   | 61,200  | 7.3   | 49,800  | 5.8   | 2,590   | 1.45  |   |       |   |       |   |       |
| 93     | 2200             | 636              | 75,500  | 10.5  | 70,400  | 10.0  | 62,200  | 8.9   | 48,500  | 6.9   | 800   | 1.75  |   |       |   |       |
| 101    | 2400             | 759              | 83,100  | 14  | 78,700  | 13.5  | 72,700  | 12.5  | 63,500  | 11    | 47,300  | 8.0   | 678   | 2.3   |   |       |
| 109    | 2600             | 889              | 90,400  | 18  | 86,800  | 17.5  | 82,000  | 16.5  | 75,000  | 15    | 65,400  | 13.0  | 46,800  | 9.5   |   |       |
| 118    | 2800             | 1,03             |   |   | 94,800  | 22  | 90,600  | 21  | 85,400  | 20    | 78,100  | 18.0  | 66,600  | 15.5  | 47,200  | 12    |
| 126    | 3000             | 1,19             |   |   | 103,000   | 27  | 99,100  | 27  | 94,500  | 25    | 88,700  | 23.5  | 81,500  | 21.5  | 72,000  | 19    |
| 134    | 3200             | 1,35             |   |   | 110,000   | 33  | 107,000   | 32  | 103,000   | 32    | 98,500  | 30    | 93,000  | 28    | 85,600  | 26    |
| 143    | 3400             | 1,52             |   |   | 118,000   | 40  | 115,000   | 39  | 112,000   | 38    | 108,000   | 35    | 103,000   | 35    | 97,300  | 33    |
| 151    | 3600             | 1,71             |   |   | 125,000   | 48  | 123,000   | 46  | 120,000   | 46    | 117,000   | 45    | 112,000   | 43    | 108,000   | 42    |
| 160    | 3800             | 1,90             |   |   | 133,000   | 56  | 130,000   | 56  | 127,000   | 54    | 125,000   | 54    | 121,000   | 52    | 117,000   | 50    |
| 168    | 4000             | 2,11             |   |   |   |   | 138,000   | 64  | 136,000   | 64    | 133,000   | 64    | 130,000   | 62    | 127,000   | 60    |
| 176    | 4200             | 2,32             |   |   |   |   | 146,000   | 76  | 143,000   | 74    | 141,000   | 74    | 139,000   | 72    | 135,000   | 72    |
| 185    | 4400             | 2,55             |   |   |   |   | 153,000   | 88  | 151,000   | 86    | 149,000   | 84    | 146,000   | 84    | 144,000   | 82    |
| 193    | 4600             | 2,78             |   |   |   |   | 161,000   | 100   | 159,000   | 98    | 157,000   | 96    | 154,000   | 96    | 152,000   | 94    |
| 202    | 4800             | 3,03             |   |   |   |   |   |   | 166,000   | 110   | 164,000   | 110   | 162,000   | 110   | 160,000   | 110   |
| 210    | 5000             | 3,29             |   |   |   |   |   |   | 174,000   | 125   | 172,000   | 125   | 170,000   | 125   | 168,000   | 125   |
| 220    | 5250             | 3,63             |   |   |   |   |   |   | 183,000   | 150   | 182,000   | 145   | 180,000   | 145   | 178,000   | 145   |
| 231    | 5500             | 3,98             |   |   |   |   |   |   |   |       | 191,000   | 170   | 189,000   | 165   | 187,000   | 165   |
| 242    | 5750             | 4,35             |   |   |   |   |   |   |   |       | 200,000   | 195   | 199,000   | 190   | 197,000   | 190   |
| 252    | 6000             | 4,74             |   |   |   |   |   |   |   |       | 210,000   | 220   | 208,000   | 220   | 207,000   | 220   |
| 263    | 6250             | 5,14             |   |   |   |   |   |   |   |       | 218,000   | 250   | 218,000   | 250   | 217,000   | 245   |
| 273    | 6500             | 5,56             |   |   |   |   |   |   |   |       | 227,000   | 280   | 227,000   | 280   | 226,000   | 280   |
| 284    | 6750             | 5,99             |   |   |   |   |   |   |   |       |   |       | 235,000   | 315   |   | 315   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .0722 ozs. per sq. inch    | Static Pressure 1 1/2" Water .145 ozs. per sq. inch | Static Pressure 2" Water .217 ozs. per sq. inch     | Static Pressure 2 1/2" Water .289 ozs. per sq. inch | Static Pressure 3" Water .361 ozs. per sq. inch | Static Pressure 3 1/2" Water .434 ozs. per sq. inch | Static Pressure 4" Water .506 ozs. per sq. inch     |       |   |       |   |       |   |       |
| 126    | 3000             | 1,19             | 42,400  | 11.5  |   |   |   |   |   |       |   |       |   |       |   |       |
| 134    | 3200             | 1,35             | 76,300  | 23  | 7,620   | 7   |   |   |   |       |   |       |   |       |   |       |
| 143    | 3400             | 1,52             | 90,100  | 31  | 67,200  | 23  |   |   |   |       |   |       |   |       |   |       |
| 151    | 3600             | 1,71             | 102,000   | 39  | 87,200  | 33  | 18,500  | 11.5  |   |       |   |       |   |       |   |       |
| 160    | 3800             | 1,90             | 113,000   | 48  | 101,000   | 43  | 82,800  | 35  | 9,080   | 12    |   |       |   |       |   |       |
| 168    | 4000             | 2,11             | 123,000   | 58  | 113,000   | 54  | 99,600  | 48  | 75,900  | 36    |   |       |   |       |   |       |
| 176    | 4200             | 2,32             | 132,000   | 70  | 124,000   | 64  | 113,000   | 58  | 98,100  | 50    | 28,800  | 19.5  |   |       |   |       |
| 185    | 4400             | 2,55             | 141,000   | 82  | 133,000   | 76  | 124,000   | 72  | 113,000   | 64    | 95,700  | 52    |   |       |   |       |
| 193    | 4600             | 2,78             | 149,000   | 94  | 143,000   | 90  | 135,000   | 84  | 126,000   | 78    | 115,000   | 72    | 18,000  | 23    |   |       |
| 202    | 4800             | 3,03             | 157,000   | 105   | 152,000   | 105   | 145,000   | 100   | 137,000   | 94    | 127,000   | 86    | 94,100  | 64    |   |       |
| 210    | 5000             | 3,29             | 168,000   | 125   | 161,000   | 120   | 155,000   | 115   | 148,000   | 110   | 139,000   | 105   | 116,000   | 84    | 15,800  | 28    |
| 220    | 5250             | 3,63             | 176,000   | 140   | 172,000   | 140   | 168,000   | 135   | 160,000   | 130   | 153,000   | 125   | 135,000   | 110   | 102,000   | 82    |
| 231    | 5500             | 3,98             | 186,000   | 165   | 182,000   | 165   | 177,000   | 160   | 172,000   | 155   | 166,000   | 150   | 150,000   | 135   | 129,000   | 115   |
| 242    | 5750             | 4,35             | 195,000   | 190   | 192,000   | 185   | 188,000   | 185   | 183,000   | 180   | 177,000   | 175   | 165,000   | 160   | 147,000   | 145   |
| 252    | 6000             | 4,74             | 205,000   | 215   | 202,000   | 215   | 198,000   | 210   | 194,000   | 205   | 189,000   | 205   | 178,000   | 190   | 163,000   | 175   |
| 263    | 6250             | 5,14             | 215,000   | 245   | 212,000   | 240   | 208,000   | 245   | 204,000   | 235   | 200,000   | 230   | 190,000   | 220   | 177,000   | 205   |
| 273    | 6500             | 5,56             | 224,000   | 275   | 220,000   | 275   | 218,000   | 270   | 215,000   | 270   | 210,000   | 265   | 202,000   | 255   | 191,000   | 240   |
| 284    | 6750             | 5,99             | 233,000   | 310   | 231,000   | 310   | 228,000   | 305   | 225,000   | 300   | 221,000   | 300   | 213,000   | 290   | 203,000   | 275   |
| 294    | 7000             | 6,45             | 243,000   | 350   | 241,000   | 345   | 238,000   | 345   | 235,000   | 340   | 232,000   | 335   | 224,000   | 325   | 215,000   | 315   |
| 315    | 7500             | 7,40             | 261,000   | 430   | 259,000   | 430   | 257,000   | 430   | 254,000   | 420   | 251,000   | 415   | 246,000   | 410   | 239,000   | 400   |
| 336    | 8000             | 8,41             |   |   | 278,000   | 520   | 276,000   | 515   | 274,000   | 515   | 271,000   | 505   | 266,000   | 500   | 261,000   | 495   |
| 357    | 8500             | 9,50             |   |   | 297,000   | 640   | 295,000   | 625   | 293,000   | 620   | 291,000   | 615   | 286,000   | 610   | 281,000   | 600   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 3 1/2" Water 2.02 ozs. per sq. inch | Static Pressure 4" Water 2.31 ozs. per sq. inch     | Static Pressure 5" Water 2.89 ozs. per sq. inch     | Static Pressure 6" Water 3.47 ozs. per sq. inch     | Static Pressure 7" Water 4.05 ozs. per sq. inch | Static Pressure 8" Water 4.63 ozs. per sq. inch     | Static Pressure 9" Water 5.2 ozs. per sq. inch      |       |   |       |   |       |   |       |
| 231    | 5500             | 3,98             | 28,200  | 41  |   |   |   |   |   |       |   |       |   |       |   |       |
| 242    | 5750             | 4,35             | 121,000   | 115   |   |   |   |   |   |       |   |       |   |       |   |       |
| 252    | 6000             | 4,74             | 144,000   | 150   | 7,270   | 74  |   |   |   |       |   |       |   |       |   |       |
| 263    | 6250             | 5,14             | 162,000   | 185   | 139,000   | 160   |   |   |   |       |   |       |   |       |   |       |
| 273    | 6500             | 5,56             | 178,000   | 220   | 161,000   | 200   | 25,200  | 64  |   |       |   |       |   |       |   |       |
| 284    | 6750             | 5,99             | 191,000   | 255   | 177,000   | 235   | 125,000   | 165   |   |       |   |       |   |       |   |       |
| 294    | 7000             | 6,45             | 205,000   | 300   | 193,000   | 275   | 158,000   | 225   | 14,700  | 68    |   |       |   |       |   |       |
| 315    | 7500             | 7,40             | 230,000   | 385   | 221,000   | 370   | 195,000   | 320   | 154,000   | 255   | 11,500  | 82    |   |       |   |       |
| 336    | 8000             | 8,41             | 263,000   | 485   | 245,000   | 470   | 225,000   | 425   | 199,000   | 370   | 152,000   | 285   | 10,300  | 92    |   |       |
| 357    | 8500             | 9,50             | 275,000   | 590   | 268,000   | 575   | 252,000   | 540   | 231,000   | 495   | 206,000   | 435   | 138,000   | 330   | 12,400  | 120   |
| 378    | 9000             | 10,67            | 295,000   | 710   | 290,000   | 700   | 276,000   | 665   | 260,000   | 630   | 239,000   | 575   | 212,000   | 500   | 109,000   | 270   |
| 397    | 9500             | 11,89            | 316,000   | 845   | 311,000   | 835   | 300,000   | 805   | 286,000   | 770   | 268,000   | 720   | 248,000   | 655   | 222,000   | 585   |
| 420    | 10000            | 13,17            | 336,000   | 985   | 332,000   | 980   | 322,000   | 960   | 310,000   | 920   | 295,000   | 880   | 279,000   | 820   | 258,000   | 755   |



Single Inlet

## No. 17 Multivane Fan — Design 3

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M. H. P. Static Pressure 1/2" Water .0722 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 3/4" Water .145 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1" Water .217 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1 1/4" Water .289 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1 1/2" Water .361 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1 3/4" Water .434 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 2" Water .506 ozs. per sq. inch |
|--------|------------------|------------------|--|---|---|---|---|---|---|
| 41     | 1075             | 1.52             | 8,280 0 3.55   |   |   |   |   |   |   |
| 47     | 1200             | 1.89             | 36,500 1 55  |   |   |   |   |   |   |
| 55     | 1400             | 2.58             | 49,000 2 85  | 1,300 0 50  |   |   |   |   |   |
| 63     | 1600             | 3.37             | 59,000 4 5   | 43,800 3 25   |   |   |   |   |   |
| 71     | 1800             | 4.26             | 68,700 6 6   | 58,500 5 6  | 10,600 1 65   |   |   |   |   |
| 78     | 2000             | 5.26             | 78,000 9 1   | 70,400 8 4  | 57,200 6 7  | 2,070 1 65  |   |   |   |
| 86     | 2200             | 6.36             | 86,900 12 5  | 80,900 11 5   | 71,500 10 0   | 55,700 7 9  | 1,020 2 0   |   |   |
| 94     | 2400             | 7.59             | 95,500 16 0  | 90,500 15 5   | 83,500 14 5   | 73,000 12 5   | 54,400 9 2  | 780 2 6   |   |
| 102    | 2600             | 8.89             | 104,000 20 5   | 99,700 20   | 94,100 19 0   | 86,300 17 5   | 75,100 15   | 53,800 11 0   |   |
| 110    | 2800             | 1 03             |  | 109,000 25  | 104,000 24 5  | 98,000 23   | 89,700 21   | 76,500 17 5   | 54,300 13 5   |
| 118    | 3000             | 1 19             |  | 118,000 31  | 114,000 30  | 109,000 29  | 102,000 27  | 93,500 25   | 82,800 22   |
| 126    | 3200             | 1 35             |  | 127,000 38  | 123,000 37  | 119,000 36  | 113,000 35  | 107,000 32  | 98,400 30   |
| 133    | 3400             | 1 52             |  | 135,000 46  | 132,000 45  | 128,000 44  | 124,000 43  | 119,000 41  | 112,000 38  |
| 141    | 3600             | 1 71             |  | 144,000 56  | 141,000 54  | 138,000 52  | 134,000 52  | 129,000 50  | 124,000 48  |
| 149    | 3800             | 1 90             |  | 153,000 64  | 150,000 64  | 147,000 62  | 143,000 62  | 139,000 60  | 135,000 58  |
| 157    | 4000             | 2 11             |  |   | 154,000 74  | 156,000 72  | 153,000 72  | 150,000 72  | 145,000 70  |
| 165    | 4200             | 2 32             |  |   | 167,000 86  | 164,000 84  | 162,000 84  | 159,000 84  | 155,000 82  |
| 173    | 4400             | 2 55             |  |   | 176,000 100   | 174,000 98  | 171,000 98  | 168,000 96  | 165,000 94  |
| 181    | 4600             | 2 78             |  |   | 184,000 115   | 182,000 115   | 180,000 110   | 177,000 110   | 175,000 110   |
| 188    | 4800             | 3 03             |  |   |   | 191,000 130   | 189,000 130   | 187,000 125   | 184,000 125   |
| 196    | 5000             | 3 29             |  |   |   | 200,000 145   | 198,000 145   | 195,000 145   | 193,000 140   |
| 206    | 5250             | 3 63             |  |   |   | 210,000 170   | 209,000 170   | 206,000 165   | 204,000 165   |
| 216    | 5500             | 3 98             |  |   |   |   | 219,000 195   | 217,000 190   | 215,000 190   |
| 226    | 5750             | 4 35             |  |   |   |   | 230,000 225   | 229,000 220   | 227,000 220   |
| 235    | 6000             | 4 74             |  |   |   |   | 241,000 255   | 240,000 255   | 238,000 250   |
| 245    | 6250             | 5 14             |  |   |   |   |   | 250,000 285   | 249,000 285   |
| 255    | 6500             | 5 56             |  |   |   |   |   | 261,000 325   | 259,000 320   |
| 265    | 6750             | 5 99             |  |   |   |   |   |   | 275,000 360   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 ozs. per sq. inch                        | Static Pressure 1 1/4" Water .723 ozs. per sq. inch                   | Static Pressure 1 1/2" Water .878 ozs. per sq. inch                 | Static Pressure 1 3/4" Water 1.01 ozs. per sq. inch                     | Static Pressure 2" Water 1.16 ozs. per sq. inch                         | Static Pressure 2 1/4" Water 1.45 ozs. per sq. inch                     | Static Pressure 2 1/2" Water 1.73 ozs. per sq. inch                 |
| 118    | 3000             | 1 19             | 48,700 13  |   |   |   |   |   |   |
| 126    | 3200             | 1 35             | 87,800 26  | 8,750 8   |   |   |   |   |   |
| 133    | 3400             | 1 52             | 104,000 35   | 77,300 26   |   |   |   |   |   |
| 141    | 3600             | 1 71             | 117,000 45   | 100,000 38  | 21,200 13   |   |   |   |   |
| 149    | 3800             | 1 90             | 130,000 56   | 116,000 49  | 95,000 40   | 11,500 13 5   |   |   |   |
| 157    | 4000             | 2 11             | 141,000 68   | 129,000 62  | 115,000 54  | 87,100 41   |   |   |   |
| 165    | 4200             | 2 32             | 151,000 80   | 142,000 74  | 130,000 68  | 118,000 58  | 33,100 22 5   |   |   |
| 173    | 4400             | 2 55             | 162,000 94   | 153,000 88  | 143,000 82  | 130,000 74  | 110,000 60  |   |   |
| 181    | 4600             | 2 78             | 171,000 110  | 164,000 105   | 155,000 98  | 144,000 90  | 132,000 82  | 20,700 26   |   |
| 188    | 4800             | 3 03             | 181,000 125  | 174,000 120   | 167,000 115   | 157,000 106   | 146,000 98  | 108,000 74  |   |
| 196    | 5000             | 3 29             | 190,000 140  | 185,000 140   | 178,000 135   | 170,000 125   | 160,000 120   | 138,000 98  | 18,100 32   |
| 206    | 5250             | 3 63             | 202,000 165  | 197,000 160   | 191,000 155   | 184,000 150   | 175,000 145   | 155,000 125   | 117,000 96  |
| 216    | 5500             | 3 98             | 213,000 190  | 209,000 185   | 204,000 185   | 197,000 175   | 190,000 170   | 173,000 155   | 148,000 130   |
| 226    | 5750             | 4 35             | 224,000 220  | 220,000 215   | 216,000 210   | 210,000 210   | 204,000 200   | 189,000 185   | 169,000 165   |
| 235    | 6000             | 4 74             | 236,000 250  | 232,000 245   | 228,000 245   | 223,000 240   | 217,000 235   | 204,000 220   | 187,000 200   |
| 245    | 6250             | 5 14             | 247,000 280  | 244,000 280   | 240,000 275   | 235,000 270   | 230,000 265   | 218,000 255   | 203,000 235   |
| 255    | 6500             | 5 56             | 258,000 320  | 254,000 315   | 251,000 310   | 247,000 310   | 242,000 305   | 232,000 290   | 220,000 275   |
| 265    | 6750             | 5 99             | 269,000 355  | 266,000 355   | 262,000 350   | 259,000 345   | 254,000 345   | 245,000 330   | 234,000 315   |
| 274    | 7000             | 6 15             | 279,000 400  | 277,000 395   | 273,000 395   | 270,000 390   | 266,000 385   | 257,000 375   | 248,000 360   |
| 294    | 7500             | 7 40             | 301,000 445  | 298,000 495   | 295,000 490   | 292,000 480   | 289,000 480   | 282,000 470   | 274,000 460   |
| 314    | 8000             | 8 41             |  | 320,000 595   | 317,000 595   | 314,000 590   | 312,000 580   | 305,000 575   | 299,000 570   |
| 333    | 8500             | 9 50             |  | 342,000 725   | 339,000 715   | 336,000 710   | 334,000 705   | 328,000 700   | 323,000 690   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 3 1/2" Water 2.62 ozs. per sq. inch                    | Static Pressure 4" Water 2.31 ozs. per sq. inch                       | Static Pressure 5" Water 2.89 ozs. per sq. inch                     | Static Pressure 6" Water 3.47 ozs. per sq. inch                         | Static Pressure 7" Water 4.05 ozs. per sq. inch                         | Static Pressure 8" Water 4.63 ozs. per sq. inch                         | Static Pressure 9" Water 5.2 ozs. per sq. inch                      |
| 216    | 5500             | 3 98             | 32,400 47  |   |   |   |   |   |   |
| 226    | 5750             | 4 35             | 139,000 135  |   |   |   |   |   |   |
| 235    | 6000             | 4 74             | 165,000 175  | 83,500 84   |   |   |   |   |   |
| 245    | 6250             | 5 14             | 186,000 210  | 160,000 185   |   |   |   |   |   |
| 255    | 6500             | 5 56             | 204,000 255  | 185,000 230   | 28,900 74   |   |   |   |   |
| 265    | 6750             | 5 99             | 220,000 295  | 203,000 270   | 144,000 190   |   |   |   |   |
| 274    | 7000             | 6 45             | 236,000 345  | 221,000 320   | 182,000 260   | 16,900 80   |   |   |   |
| 294    | 7500             | 7 40             | 264,000 440  | 253,000 420   | 224,000 370   | 177,000 295   | 13,200 94   |   |   |
| 314    | 8000             | 8 41             | 291,000 555  | 282,000 535   | 259,000 490   | 229,000 425   | 174,000 330   | 11,900 105  |   |
| 333    | 8500             | 9 50             | 315,000 680  | 308,000 660   | 290,000 620   | 265,000 570   | 236,000 500   | 150,000 380   |   |
| 353    | 9000             | 10 67            | 339,000 810  | 333,000 805   | 318,000 765   | 299,000 725   | 275,000 660   | 243,000 575   | 125,000 310   |
| 372    | 9500             | 11 89            | 363,000 970  | 357,000 960   | 344,000 925   | 328,000 880   | 308,000 825   | 285,000 755   | 255,000 675   |
| 392    | 10000            | 13 17            | 386,000 1130   | 381,000 1120  | 370,000 1100  | 356,000 1060  | 339,000 1010  | 320,000 945   | 296,000 870   |



**Single Inlet      No. 18 Multivane Fan — Design 3      Single Width**  
**When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances**

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M. H. P. Static Pressure 1/2" Water .0722 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1/4" Water .145 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 3/8" Water .217 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1/2" Water .289 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 5/8" Water .361 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 3/4" Water .434 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 7/8" Water .506 ozs. per sq. inch |
|--------|------------------|------------------|--|---|---|---|---|---|---|
| 39     | 1075             | 152              | 9,320 0.4  |   |   |   |   |   |   |
| 44     | 1200             | 189              | 41,500 1.75  |   |   |   |   |   |   |
| 52     | 1400             | 258              | 55,700 3.25  | 1,480 0.67  |   |   |   |   |   |
| 59     | 1600             | 337              | 67,500 5.1   | 49,800 3.7  |   |   |   |   |   |
| 66     | 1800             | 426              | 78,200 6.4   | 66,500 6.4  | 12,100 1.85   |   |   |   |   |
| 74     | 2000             | 526              | 88,600 10.5  | 80,000 9.5  | 65,100 7.6  | 3,380 1.9   |   |   |   |
| 81     | 2200             | 636              | 98,700 14.0  | 91,900 13.0   | 81,300 11.5   | 63,500 9.0  | 1,160 2.3   |   |   |
| 88     | 2400             | 759              | 109,000 18.5   | 103,000 17.5  | 95,000 16.5   | 83,100 14.0   | 61,800 10.5   |   |   |
| 96     | 2600             | 889              | 118,000 23.5   | 133,000 22.5  | 107,000 21.5  | 98,100 19.5   | 85,500 17.0   | 886 3.0   |   |
| 103    | 2800             | 1 03             |  | 124,000 28  | 118,000 28  | 112,000 26  | 102,000 23.5  | 87,000 20   | 61,200 12.5   |
| 110    | 3000             | 1 19             |  | 134,000 35  | 130,000 35  | 124,000 33  | 116,000 31  | 107,000 28  | 87,000 20   |
| 118    | 3200             | 1 35             |  | 144,000 43  | 140,000 42  | 135,000 41  | 129,000 39  | 121,000 37  | 107,000 28  |
| 125    | 3400             | 1 52             |  | 154,000 52  | 150,000 50  | 146,000 50  | 141,000 50  | 135,000 46  | 121,000 37  |
| 132    | 3600             | 1 71             |  | 164,000 62  | 160,000 60  | 157,000 60  | 153,000 58  | 147,000 56  | 135,000 46  |
| 140    | 3800             | 1 90             |  | 174,000 74  | 170,000 72  | 167,000 70  | 163,000 70  | 159,000 68  | 147,000 56  |
| 147    | 4000             | 2 11             |  |   | 180,000 84  | 177,000 82  | 174,000 82  | 170,000 80  | 159,000 68  |
| 154    | 4200             | 2 32             |  |   | 190,000 98  | 187,000 96  | 184,000 96  | 181,000 94  | 170,000 80  |
| 162    | 4400             | 2 55             |  |   | 200,000 115   | 198,000 110   | 195,000 110   | 191,000 110   | 181,000 94  |
| 169    | 4600             | 2 78             |  |   | 210,000 130   | 208,000 130   | 205,000 125   | 202,000 125   | 191,000 110   |
| 176    | 4800             | 3 03             |  |   |   | 218,000 145   | 215,000 145   | 212,000 145   | 202,000 125   |
| 184    | 5000             | 3 29             |  |   |   | 228,000 165   | 225,000 165   | 222,000 160   | 212,000 145   |
| 193    | 5250             | 3 63             |  |   |   | 240,000 195   | 238,000 190   | 235,000 190   | 222,000 160   |
| 202    | 5500             | 3 98             |  |   |   |   | 250,000 220   | 247,000 220   | 235,000 190   |
| 212    | 5750             | 4 35             |  |   |   |   | 260,000 255   | 257,000 250   | 247,000 220   |
| 221    | 6000             | 4 74             |  |   |   |   | 274,000 290   | 272,000 290   | 257,000 250   |
| 230    | 6250             | 5 14             |  |   |   |   |   | 284,000 325   | 272,000 290   |
| 239    | 6500             | 5 56             |  |   |   |   |   | 297,000 370   | 284,000 325   |
| 248    | 6750             | 5 99             |  |   |   |   |   |   | 297,000 370   |
|        |                  |                  |  |   |   |   |   |   | 307,000 410   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 ozs. per sq. inch                        | Static Pressure 1 1/4" Water .723 ozs. per sq. inch                   | Static Pressure 1 1/2" Water .878 ozs. per sq. inch                   | Static Pressure 1 3/4" Water 1.01 ozs. per sq. inch                   | Static Pressure 2" Water 1.16 ozs. per sq. inch                       | Static Pressure 2 1/2" Water 1.45 ozs. per sq. inch                   | Static Pressure 3" Water 1.73 ozs. per sq. inch                       |
| 110    | 3000             | 1 19             | 55,400 15  |   |   |   |   |   |   |
| 118    | 3200             | 1 35             | 99,800 30  | 9,960 9.1   |   |   |   |   |   |
| 125    | 3400             | 1 52             | 118,000 40   | 87,900 30   |   |   |   |   |   |
| 132    | 3600             | 1 71             | 133,000 50   | 114,000 43  | 24,100 15   |   |   |   |   |
| 140    | 3800             | 1 90             | 147,000 64   | 132,000 56  | 108,000 46  | 13,000 15.5   |   |   |   |
| 147    | 4000             | 2 11             | 160,000 78   | 147,000 70  | 130,000 62  | 99,100 47   |   |   |   |
| 154    | 4200             | 2 32             | 172,000 90   | 162,000 84  | 148,000 76  | 129,000 66  | 37,600 26   |   |   |
| 162    | 4400             | 2 55             | 184,000 105  | 174,000 100   | 163,000 94  | 148,000 84  | 125,000 68  |   |   |
| 169    | 4600             | 2 78             | 195,000 120  | 187,000 115   | 177,000 110   | 164,000 105   | 150,000 92  | 23,600 30   |   |
| 176    | 4800             | 3 03             | 206,000 140  | 198,000 135   | 190,000 130   | 179,000 120   | 166,000 110   | 123,000 84  |   |
| 184    | 5000             | 3 29             | 217,000 160  | 210,000 155   | 208,000 150   | 193,000 145   | 182,000 135   | 151,000 110   | 20,600 37   |
| 193    | 5250             | 3 63             | 230,000 185  | 224,000 185   | 217,000 180   | 210,000 170   | 200,000 165   | 176,000 140   | 133,000 111   |
| 202    | 5500             | 3 98             | 243,000 215  | 237,000 210   | 232,000 210   | 224,000 200   | 216,000 195   | 196,000 175   | 168,000 150   |
| 212    | 5750             | 4 35             | 255,000 250  | 251,000 245   | 245,000 240   | 239,000 235   | 232,000 230   | 216,000 210   | 193,000 185   |
| 221    | 6000             | 4 74             | 268,000 280  | 264,000 280   | 259,000 275   | 253,000 270   | 247,000 265   | 232,000 250   | 213,000 225   |
| 230    | 6250             | 5 14             | 281,000 320  | 277,000 315   | 272,000 315   | 267,000 310   | 261,000 305   | 248,000 290   | 232,000 270   |
| 239    | 6500             | 5 56             | 293,000 360  | 288,000 360   | 285,000 355   | 281,000 350   | 275,000 345   | 264,000 330   | 250,000 315   |
| 248    | 6750             | 5 99             | 305,000 405  | 302,000 405   | 298,000 400   | 294,000 395   | 290,000 390   | 279,000 380   | 266,000 360   |
| 257    | 7000             | 6 45             | 318,000 455  | 314,000 450   | 310,000 450   | 307,000 440   | 303,000 435   | 293,000 425   | 282,000 410   |
| 270    | 7500             | 7 40             | 342,000 565  | 339,000 560   | 336,000 555   | 332,000 545   | 329,000 545   | 321,000 535   | 312,000 520   |
| 294    | 8000             | 8 41             |  | 363,000 680   | 361,000 675   | 358,000 670   | 355,000 660   | 347,000 655   | 340,000 650   |
| 312    | 8500             | 9 50             |  | 388,000 825   | 385,000 815   | 382,000 810   | 380,000 800   | 373,000 795   | 368,000 785   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 3 1/2" Water 2.02 ozs. per sq. inch                    | Static Pressure 4" Water 2.31 ozs. per sq. inch                       | Static Pressure 5" Water 2.89 ozs. per sq. inch                       | Static Pressure 6" Water 3.47 ozs. per sq. inch                       | Static Pressure 7" Water 4.05 ozs. per sq. inch                       | Static Pressure 8" Water 4.63 ozs. per sq. inch                       | Static Pressure 9" Water 5.2 ozs. per sq. inch                        |
| 202    | 5500             | 3 98             | 36,900 54  |   |   |   |   |   |   |
| 212    | 5750             | 4 35             | 158,000 155  |   |   |   |   |   |   |
| 221    | 6000             | 4 74             | 188,000 195  | 95,000 96   |   |   |   |   |   |
| 230    | 6250             | 5 14             | 211,000 240  | 182,000 210   |   |   |   |   |   |
| 239    | 6500             | 5 56             | 232,000 280  | 210,000 260   | 32,900 84   |   |   |   |   |
| 248    | 6750             | 5 99             | 250,000 335  | 232,000 310   | 164,000 215   |   |   |   |   |
| 257    | 7000             | 6 45             | 268,000 390  | 252,000 360   | 206,000 295   | 19,200 90   |   |   |   |
| 270    | 7500             | 7 40             | 301,000 505  | 288,000 480   | 255,000 420   | 202,000 335   | 150,000 105   |   |   |
| 294    | 8000             | 8 41             | 330,000 630  | 320,000 610   | 295,000 555   | 260,000 485   | 198,000 375   | 13,500 120  |   |
| 312    | 8500             | 9 50             | 359,000 775  | 350,000 755   | 330,000 705   | 301,000 645   | 269,000 570   | 181,000 430   | 16,200 155  |
| 331    | 9000             | 10 67            | 385,000 925  | 379,000 915   | 361,000 870   | 340,000 825   | 312,000 750   | 277,000 655   | 143,000 355   |
| 349    | 9500             | 11 89            | 412,000 1100   | 406,000 1090  | 392,000 1050  | 373,000 1000  | 351,000 940   | 324,000 860   | 290,000 765   |
| 368    | 10000            | 13 17            | 439,000 1280   | 433,000 1280  | 421,000 1250  | 405,000 1200  | 386,000 1150  | 364,000 1070  | 337,000 985   |

Single Inlet

## No. 20 Multivane Fan — Design 3

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.                                      | H. P. | Volume C.F.M.                                     | H. P. | Volume C.F.M.                                     | H. P. | Volume C.F.M.                                     | H. P. | Volume C.F.M.                                     | H. P. | Volume C.F.M.                                     | H. P. | Volume C.F.M.                                     | H. P. |
|--------|------------------|------------------|--|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|
|        |                  |                  | Static Pressure 1/2" Water .0722 ozs. per sq. inch |       | Static Pressure 1/4" Water .145 ozs. per sq. inch |       | Static Pressure 3/8" Water .217 ozs. per sq. inch |       | Static Pressure 1/2" Water .289 ozs. per sq. inch |       | Static Pressure 5/8" Water .361 ozs. per sq. inch |       | Static Pressure 3/4" Water .434 ozs. per sq. inch |       | Static Pressure 7/8" Water .506 ozs. per sq. inch |       |
| 34     | 1075             | .152             | 11,900   | 0.51  |   |       |   |       |   |       |   |       |   |       |   |       |
| 39     | 1200             | .189             | 52,500   | 2.2   |   |       |   |       |   |       |   |       |   |       |   |       |
| 46     | 1400             | .258             | 70,500   | 4.1   | 1,870   | 0.84  |   |       |   |       |   |       |   |       |   |       |
| 52     | 1600             | .337             | 85,500   | 6.5   | 63,000  | 4.7   |   |       |   |       |   |       |   |       |   |       |
| 59     | 1800             | .426             | 98,900   | 9.5   | 84,200  | 8.1   | 15,300  | 2.35  |   |       |   |       |   |       |   |       |
| 65     | 2000             | .526             | 112,000  | 13.0  | 101,000   | 12    | 82,400  | 7.6   | 4,270   | 2.4   |   |       |   |       |   |       |
| 72     | 2200             | .636             | 125,000  | 17.5  | 116,000   | 17    | 103,000   | 14.5  | 80,200  | 11.5  | 1,470   | 2.9   |   |       |   |       |
| 78     | 2400             | .759             | 138,000  | 23    | 130,000   | 22    | 120,000   | 20.5  | 105,000   | 18    | 78,300  | 13.5  | 1,120   | 3.8   |   |       |
| 85     | 2600             | .889             | 150,000  | 29    | 143,000   | 29    | 136,000   | 27    | 124,000   | 25    | 108,000   | 21.5  | 77,500  | 16    |   |       |
| 92     | 2800             | 1.03             |  |       | 157,000   | 36    | 150,000   | 35    | 141,000   | 33    | 129,000   | 30    | 110,000   | 25    | 78,100  | 20    |
| 98     | 3000             | 1.19             |  |       | 170,000   | 45    | 164,000   | 44    | 156,000   | 42    | 147,000   | 39    | 135,000   | 36    | 119,000   | 31    |
| 105    | 3200             | 1.35             |  |       | 182,000   | 54    | 177,000   | 54    | 171,000   | 52    | 163,000   | 50    | 154,000   | 47    | 142,000   | 43    |
| 111    | 3400             | 1.52             |  |       | 195,000   | 66    | 190,000   | 64    | 185,000   | 64    | 178,000   | 62    | 171,000   | 58    | 161,000   | 54    |
| 118    | 3600             | 1.71             |  |       | 207,000   | 80    | 203,000   | 76    | 198,000   | 76    | 193,000   | 74    | 186,000   | 72    | 177,000   | 68    |
| 124    | 3800             | 1.90             |  |       | 220,000   | 94    | 216,000   | 92    | 211,000   | 90    | 206,000   | 88    | 201,000   | 86    | 194,000   | 84    |
| 131    | 4000             | 2.11             |  |       |   |       | 228,000   | 105   | 224,000   | 105   | 220,000   | 105   | 215,000   | 100   | 210,000   | 100   |
| 137    | 4200             | 2.32             |  |       |   |       | 241,000   | 125   | 236,000   | 120   | 233,000   | 120   | 229,000   | 120   | 224,000   | 120   |
| 144    | 4400             | 2.55             |  |       |   |       | 253,000   | 145   | 250,000   | 140   | 246,000   | 140   | 242,000   | 140   | 238,000   | 135   |
| 150    | 4600             | 2.78             |  |       |   |       | 265,000   | 165   | 262,000   | 165   | 259,000   | 160   | 255,000   | 160   | 251,000   | 155   |
| 157    | 4800             | 3.03             |  |       |   |       |   |       | 275,000   | 185   | 272,000   | 185   | 269,000   | 180   | 265,000   | 180   |
| 163    | 5000             | 3.29             |  |       |   |       |   |       | 288,000   | 210   | 284,000   | 210   | 281,000   | 205   | 278,000   | 205   |
| 172    | 5250             | 3.63             |  |       |   |       |   |       | 303,000   | 245   | 300,000   | 240   | 297,000   | 240   | 294,000   | 235   |
| 180    | 5500             | 3.98             |  |       |   |       |   |       |   |       | 316,000   | 280   | 322,000   | 275   | 310,000   | 275   |
| 188    | 5750             | 4.35             |  |       |   |       |   |       |   |       | 331,000   | 320   | 329,000   | 320   | 326,000   | 315   |
| 196    | 6000             | 4.74             |  |       |   |       |   |       |   |       | 346,000   | 370   | 345,000   | 365   | 342,000   | 360   |
| 204    | 6250             | 5.14             |  |       |   |       |   |       |   |       |   |       | 360,000   | 410   | 358,000   | 410   |
| 212    | 6500             | 5.56             |  |       |   |       |   |       |   |       |   |       | 375,000   | 465   | 373,000   | 460   |
| 222    | 6750             | 5.99             |  |       |   |       |   |       |   |       |   |       |   |       | 389,000   | 520   |

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 ozs. per sq. inch | Static Pressure 1 1/4" Water .723 ozs. per sq. inch | Static Pressure 1 1/2" Water .878 ozs. per sq. inch | Static Pressure 1 3/4" Water 1.01 ozs. per sq. inch | Static Pressure 2" Water 1.16 ozs. per sq. inch | Static Pressure 2 1/4" Water 1.48 ozs. per sq. inch | Static Pressure 2 1/2" Water 1.73 ozs. per sq. inch |
|--------|------------------|------------------|---|---|---|---|---|---|---|
| 98     | 3000             | 1.19             | 70,100  | 19  |   |   |   |   |   |
| 105    | 3200             | 1.35             | 126,000   | 38  | 12,600  | 11.5  |   |   |   |
| 111    | 3400             | 1.52             | 149,000   | 50  | 111,000   | 38  |   |   |   |
| 118    | 3600             | 1.71             | 168,000   | 64  | 144,000   | 54  | 30,500  | 19  |   |
| 124    | 3800             | 1.90             | 187,000   | 80  | 167,000   | 70  | 137,000   | 58  | 16,500  |
| 131    | 4000             | 2.11             | 203,000   | 96  | 186,000   | 88  | 165,000   | 78  | 126,000   |
| 137    | 4200             | 2.32             | 218,000   | 115   | 204,000   | 105   | 187,000   | 98  | 182,000   |
| 144    | 4400             | 2.55             | 233,000   | 135   | 220,000   | 125   | 206,000   | 120   | 188,000   |
| 150    | 4600             | 2.78             | 246,000   | 155   | 236,000   | 150   | 224,000   | 140   | 208,000   |
| 157    | 4800             | 3.03             | 260,000   | 180   | 251,000   | 170   | 240,000   | 165   | 226,000   |
| 163    | 5000             | 3.29             | 274,000   | 205   | 266,000   | 200   | 255,000   | 190   | 244,000   |
| 172    | 5250             | 3.63             | 290,000   | 235   | 284,000   | 230   | 274,000   | 225   | 265,000   |
| 180    | 5500             | 3.98             | 307,000   | 270   | 301,000   | 270   | 298,000   | 265   | 284,000   |
| 188    | 5750             | 4.35             | 322,000   | 315   | 317,000   | 310   | 310,000   | 306   | 308,000   |
| 196    | 6000             | 4.74             | 340,000   | 355   | 334,000   | 360   | 328,000   | 350   | 321,000   |
| 204    | 6250             | 5.14             | 356,000   | 405   | 351,000   | 400   | 345,000   | 395   | 338,000   |
| 212    | 6500             | 5.56             | 371,000   | 455   | 365,000   | 450   | 361,000   | 445   | 355,000   |
| 222    | 6750             | 5.99             | 387,000   | 515   | 382,000   | 510   | 377,000   | 505   | 372,000   |
| 229    | 7000             | 6.45             | 402,000   | 575   | 398,000   | 570   | 393,000   | 565   | 389,000   |
| 245    | 7500             | 7.40             | 432,000   | 715   | 430,000   | 710   | 425,000   | 705   | 420,000   |
| 262    | 8000             | 8.41             |   |   | 460,000   | 860   | 456,000   | 855   | 453,000   |
| 278    | 8500             | 9.50             |   |   | 492,000   | 1060  | 488,000   | 1050  | 484,000   |

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 3 1/2" Water 2.02 ozs. per sq. inch | Static Pressure 4" Water 2.31 ozs. per sq. inch | Static Pressure 4 1/2" Water 2.69 ozs. per sq. inch | Static Pressure 5" Water 3.47 ozs. per sq. inch | Static Pressure 5 1/2" Water 4.05 ozs. per sq. inch | Static Pressure 6" Water 4.63 ozs. per sq. inch | Static Pressure 6 1/2" Water 5.2 ozs. per sq. inch |
|--------|------------------|------------------|---|---|---|---|---|---|--|
| 180    | 5500             | 3.98             | 46,600  | 68  |   |   |   |   |  |
| 188    | 5750             | 4.35             | 200,000   | 195   |   |   |   |   |  |
| 196    | 6000             | 4.74             | 238,000   | 250   | 120,000   | 120   |   |   |  |
| 204    | 6250             | 5.14             | 267,000   | 305   | 230,000   | 265   |   |   |  |
| 212    | 6500             | 5.56             | 294,000   | 365   | 260,000   | 330   | 41,600  | 105   |  |
| 222    | 6750             | 5.99             | 316,000   | 425   | 293,000   | 390   | 207,000   | 275   |  |
| 229    | 7000             | 6.45             | 339,000   | 495   | 319,000   | 460   | 261,000   | 375   | 24,300   |
| 245    | 7500             | 7.40             | 381,000   | 635   | 365,000   | 610   | 322,000   | 530   | 255,000  |
| 262    | 8000             | 8.41             | 418,000   | 800   | 405,000   | 775   | 373,000   | 705   | 329,000  |
| 278    | 8500             | 9.50             | 464,000   | 980   | 443,000   | 955   | 417,000   | 895   | 381,000  |
| 294    | 9000             | 10.67            | 487,000   | 1170  | 480,000   | 1160  | 457,000   | 1100  | 430,000  |
| 310    | 9500             | 11.89            | 522,000   | 1400  | 515,000   | 1380  | 495,000   | 1330  | 472,000  |
| 327    | 10000            | 13.17            | 555,000   | 1630  | 548,000   | 1620  | 532,000   | 1580  | 512,000  |

Single Inlet

## No. 22 Multivane Fan — Design 3

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M. H. P. Static Pressure 1" Water .072 oza. per sq. inch | Volume C.F.M. H. P. Static Pressure 1½" Water .145 oza. per sq. inch | Volume C.F.M. H. P. Static Pressure 2" Water .217 oza. per sq. inch | Volume C.F.M. H. P. Static Pressure 2½" Water .289 oza. per sq. inch | Volume C.F.M. H. P. Static Pressure 3" Water .361 oza. per sq. inch | Volume C.F.M. H. P. Static Pressure 3½" Water .434 oza. per sq. inch | Volume C.F.M. H. P. Static Pressure 4" Water .506 oza. per sq. inch |
|--------|------------------|------------------|---|--|---|--|---|--|---|
| 31     | 1075             | 152              | 11,700 0.63   |  |   |  |   |  |   |
| 35     | 1200             | 189              | 65,000 2.75   |  |   |  |   |  |   |
| 41     | 1100             | 258              | 87,000 5.1  | 2,300 1.05   |   |  |   |  |   |
| 47     | 1600             | 337              | 103,000 8.0   | 77,800 5.8   |   |  |   |  |   |
| 53     | 1800             | 426              | 122,000 11.5  | 114,000 10   | 18,800 2.9  |  |   |  |   |
| 59     | 2000             | 526              | 139,000 16  | 125,000 15.0   | 102,000 12  | 5,300 2.9  |   |  |   |
| 65     | 2200             | 636              | 154,000 22  | 141,000 20.5   | 127,000 18  | 99,100 14  | 1,800 3.55  |  |   |
| 71     | 2400             | 759              | 170,000 29  | 161,000 27   | 148,000 25  | 130,000 22   | 96,700 16.5   | 1,400 4.65   |   |
| 77     | 2600             | 889              | 185,000 36  | 177,000 35   | 167,000 34  | 153,000 31   | 134,000 26  | 95,600 19.5  |   |
| 82     | 2800             | 1,03             |   | 194,000 45   | 185,000 43  | 174,000 41   | 160,000 37  | 136,000 31   | 96,500 21.5   |
| 88     | 3000             | 1,19             |   | 210,000 56   | 202,000 54  | 193,000 52   | 181,000 49  | 166,000 44   | 147,000 39  |
| 94     | 3200             | 1,35             |   | 225,000 68   | 219,000 66  | 211,000 64   | 201,000 62  | 190,000 58   | 175,000 54  |
| 100    | 3400             | 1,52             |   | 241,000 82   | 235,000 80  | 228,000 78   | 220,000 78  | 211,000 72   | 199,000 68  |
| 106    | 3600             | 1,71             |   | 256,000 98   | 250,000 94  | 245,000 94   | 238,000 92  | 229,000 88   | 220,000 84  |
| 112    | 3800             | 1,90             |   | 271,000 115  | 266,000 115   | 261,000 110  | 255,000 110   | 248,000 105  | 239,000 105   |
| 118    | 4000             | 2,11             |   |  | 282,000 130   | 277,000 130  | 271,000 130   | 266,000 125  | 258,000 125   |
| 124    | 4200             | 2,32             |   |  | 298,000 155   | 292,000 150  | 288,000 150   | 283,000 150  | 276,000 145   |
| 129    | 4400             | 2,55             |   |  | 313,000 180   | 309,000 175  | 304,000 175   | 299,000 170  | 294,000 170   |
| 135    | 4600             | 2,78             |   |  | 328,000 205   | 324,000 200  | 320,000 200   | 315,000 195  | 310,000 195   |
| 141    | 4800             | 3,03             |   |  |   | 340,000 235  | 336,000 225   | 332,000 225  | 327,000 220   |
| 147    | 5000             | 3,29             |   |  |   | 355,000 260  | 352,000 255   | 348,000 255  | 343,000 250   |
| 154    | 5250             | 3,63             |   |  |   | 374,000 300  | 371,000 300   | 367,000 300  | 363,000 295   |
| 162    | 5500             | 3,98             |   |  |   |  | 390,000 345   | 386,000 340  | 382,000 340   |
| 169    | 5750             | 4,35             |   |  |   |  | 409,000 395   | 406,000 390  | 403,000 390   |
| 176    | 6000             | 4,74             |   |  |   |  | 428,000 455   | 426,000 450  | 422,000 445   |
| 184    | 6250             | 5,14             |   |  |   |  |   | 444,000 510  | 442,000 505   |
| 191    | 6500             | 5,56             |   |  |   |  |   | 463,000 575  | 460,000 570   |
| 198    | 6750             | 5,99             |   |  |   |  |   |  | 480,000 640   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 oza. per sq. inch                     | Static Pressure 1½" Water .723 oza. per sq. inch                     | Static Pressure 2" Water .878 oza. per sq. inch                     | Static Pressure 2½" Water 1.01 oza. per sq. inch                     | Static Pressure 3" Water 1.16 oza. per sq. inch                     | Static Pressure 3½" Water 1.45 oza. per sq. inch                     | Static Pressure 4" Water 1.73 oza. per sq. inch                     |
| 88     | 3000             | 1,19             | 86,600 23.5   |  |   |  |   |  |   |
| 94     | 3200             | 1,35             | 156,000 47  | 15,600 14.5  |   |  |   |  |   |
| 100    | 3400             | 1,52             | 184,000 62  | 137,000 47   |   |  |   |  |   |
| 106    | 3600             | 1,71             | 208,000 80  | 178,000 68   | 88,700 23.5   |  |   |  |   |
| 112    | 3800             | 1,90             | 230,000 98  | 206,000 88   | 169,000 72  | 20,400 24.5  |   |  |   |
| 118    | 4000             | 2,11             | 250,000 120   | 230,000 110  | 204,000 96  | 155,000 74   |   |  |   |
| 124    | 4200             | 2,32             | 269,000 140   | 252,000 130  | 231,000 120   | 200,000 105  | 58,800 40   |  |   |
| 129    | 4400             | 2,55             | 288,000 165   | 272,000 155  | 254,000 145   | 232,000 130  | 196,000 105   |  |   |
| 135    | 4600             | 2,78             | 304,000 190   | 292,000 185  | 276,000 175   | 257,000 160  | 235,000 145   | 36,800 47  |   |
| 141    | 4800             | 3,03             | 322,000 220   | 310,000 215  | 297,000 205   | 280,000 190  | 260,000 175   | 192,000 130  |   |
| 147    | 5000             | 3,29             | 339,000 250   | 329,000 245  | 317,000 235   | 302,000 225  | 285,000 215   | 237,000 175  | 32,200 58   |
| 154    | 5250             | 3,63             | 359,000 290   | 351,000 285  | 339,000 280   | 328,000 270  | 312,000 255   | 275,000 220  | 208,000 170   |
| 162    | 5500             | 3,98             | 379,000 335   | 371,000 330  | 362,000 325   | 351,000 315  | 338,000 305   | 307,000 275  | 263,000 235   |
| 169    | 5750             | 4,35             | 398,000 390   | 392,000 385  | 383,000 380   | 374,000 370  | 362,000 355   | 336,000 330  | 301,000 290   |
| 176    | 6000             | 4,74             | 420,000 440   | 412,000 435  | 406,000 435   | 396,000 425  | 386,000 415   | 363,000 385  | 333,000 355   |
| 184    | 6250             | 5,14             | 439,000 500   | 433,000 495  | 425,000 490   | 418,000 485  | 409,000 475   | 388,000 450  | 362,000 420   |
| 191    | 6500             | 5,56             | 458,000 565   | 450,000 560  | 445,000 555   | 439,000 550  | 430,000 540   | 413,000 520  | 391,000 490   |
| 198    | 6750             | 5,99             | 477,000 635   | 472,000 630  | 465,000 625   | 460,000 615  | 453,000 610   | 435,000 590  | 415,000 565   |
| 206    | 7000             | 6,45             | 496,000 710   | 491,000 715  | 485,000 700   | 480,000 690  | 473,000 685   | 458,000 670  | 440,000 640   |
| 221    | 7500             | 7,40             | 534,000 880   | 530,000 875  | 525,000 865   | 520,000 855  | 514,000 850   | 501,000 835  | 488,000 815   |
| 235    | 8000             | 8,41             |   | 568,000 1060   | 564,000 1060  | 559,000 1050   | 555,000 1040  | 543,000 1020   | 532,000 1010  |
| 250    | 8500             | 9,50             |   | 606,000 1290   | 601,000 1280  | 596,000 1270   | 594,000 1250  | 583,000 1040   | 575,000 1230  |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 5" Water 2.02 oza. per sq. inch                     | Static Pressure 6" Water 2.31 oza. per sq. inch                      | Static Pressure 7" Water 2.59 oza. per sq. inch                     | Static Pressure 8" Water 3.47 oza. per sq. inch                      | Static Pressure 9" Water 4.05 oza. per sq. inch                     | Static Pressure 10" Water 4.63 oza. per sq. inch                     | Static Pressure 11" Water 5.2 oza. per sq. inch                     |
| 162    | 5500             | 3,98             | 67,000 84   |  |   |  |   |  |   |
| 169    | 5750             | 4,35             | 247,000 240   |  |   |  |   |  |   |
| 176    | 6000             | 4,74             | 294,000 310   | 14,900 150   |   |  |   |  |   |
| 184    | 6250             | 5,14             | 330,000 380   | 285,000 325  |   |  |   |  |   |
| 191    | 6500             | 5,56             | 363,000 450   | 328,000 405  | 51,500 130  |  |   |  |   |
| 198    | 6750             | 5,99             | 391,000 525   | 362,000 485  | 256,000 340   |  |   |  |   |
| 206    | 7000             | 6,45             | 419,000 610   | 394,000 565  | 323,000 460   | 30,000 140   |   |  |   |
| 221    | 7500             | 7,40             | 474,000 785   | 450,000 750  | 398,000 655   | 315,000 520  | 23,500 165  |  |   |
| 235    | 8000             | 8,41             | 517,000 990   | 501,000 955  | 460,000 870   | 407,000 760  | 310,000 585   | 21,100 190   |   |
| 250    | 8500             | 9,50             | 561,000 1210  | 547,000 1150   | 515,000 1110  | 471,000 1010   | 420,000 885   | 282,000 675  | 25,200 245  |
| 265    | 9000             | 10,67            | 602,000 1450  | 593,000 1430   | 565,000 1360  | 531,000 1290   | 489,000 1170  | 433,000 1030   | 223,000 555   |
| 279    | 9500             | 11,89            | 645,000 1730  | 635,000 1710   | 612,000 1650  | 584,000 1570   | 549,000 1470  | 506,000 1340   | 453,000 1200  |
| 294    | 10000            | 13,17            | 686,000 2010  | 678,000 2000   | 658,000 1960  | 633,000 1880   | 603,000 1800  | 570,000 1680   | 527,000 1550  |

Single Inlet

**No. 24 Multivane Fan — Design 3**

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.                                      | H. P.   | Volume C.F.M.                                     | H. P.   | Volume C.F.M.                                       | H. P.   | Volume C.F.M.                                       | H. P.   | Volume C.F.M.                                       | H. P.   | Volume C.F.M.                                       | H. P.   | Volume C.F.M.                                       | H. P.   |
|--------|------------------|------------------|--|---|---|---|---|---|---|---|---|---|---|---|---|---|
|        |                  |                  | Static Pressure 1/2" Water .0722 ozs. per sq. inch | Static Pressure 1/2" Water .145 ozs. per sq. inch | Static Pressure 3/4" Water .217 ozs. per sq. inch | Static Pressure 1" Water .289 ozs. per sq. inch | Static Pressure 1 1/4" Water .361 ozs. per sq. inch | Static Pressure 1 1/2" Water .434 ozs. per sq. inch | Static Pressure 1 3/4" Water .506 ozs. per sq. inch | Static Pressure 2" Water .578 ozs. per sq. inch | Static Pressure 2 1/4" Water .650 ozs. per sq. inch | Static Pressure 2 1/2" Water .723 ozs. per sq. inch | Static Pressure 2 3/4" Water .795 ozs. per sq. inch | Static Pressure 3" Water .868 ozs. per sq. inch | Static Pressure 3 1/4" Water .940 ozs. per sq. inch | Static Pressure 3 1/2" Water .1.012 ozs. per sq. inch |
| 28     | 1075             | 152              | 17,800   | 0.76  |   |   |   |   |   |   |   |   |   |   |   |   |
| 32     | 1200             | 189              | 78,300   | 3.3   |   |   |   |   |   |   |   |   |   |   |   |   |
| 37     | 1400             | 258              | 105,000  | 6.2   | 2,790   | 1.25  |   |   |   |   |   |   |   |   |   |   |
| 43     | 1600             | 337              | 128,000  | 9.7   | 94,200  | 7.1   |   |   |   |   |   |   |   |   |   |   |
| 48     | 1800             | 426              | 148,000  | 14.0  | 126,000   | 12  | 22,800  | 3.55  |   |   |   |   |   |   |   |   |
| 52     | 2000             | 526              | 168,000  | 19.5  | 151,000   | 18  | 123,000   | 14.5  | 6,390   | 3.55  |   |   |   |   |   |   |
| 59     | 2200             | 636              | 187,000  | 26  | 174,000   | 25  | 154,000   | 22  | 120,000   | 17  | 2,200   | 4.3   |   |   |   |   |
| 64     | 2400             | 759              | 206,000  | 35  | 195,000   | 33  | 180,000   | 31  | 157,000   | 27  | 117,000   | 20  | 1,680   | 5.7   |   |   |
| 70     | 2600             | 889              | 224,000  | 44  | 215,000   | 43  | 203,000   | 41  | 186,000   | 37  | 162,000   | 32  | 116,000   | 24  |   |   |
| 75     | 2800             | 1.03             |  |   | 234,000   | 54  | 224,000   | 52  | 211,000   | 49  | 193,000   | 45  | 165,000   | 38  | 117,000   | 29  |
| 80     | 3000             | 1.19             |  |   | 254,000   | 66  | 245,000   | 66  | 234,000   | 62  | 220,000   | 58  | 202,000   | 54  | 178,000   | 47  |
| 86     | 3200             | 1.35             |  |   | 272,000   | 82  | 260,000   | 80  | 256,000   | 78  | 244,000   | 74  | 230,000   | 70  | 212,000   | 65  |
| 91     | 3400             | 1.52             |  |   | 291,000   | 98  | 281,000   | 96  | 276,000   | 94  | 266,000   | 94  | 256,000   | 88  | 240,000   | 82  |
| 96     | 3600             | 1.71             |  |   | 309,000   | 120   | 303,000   | 115   | 296,000   | 115   | 288,000   | 110   | 278,000   | 105   | 266,000   | 100   |
| 102    | 3800             | 1.90             |  |   | 328,000   | 140   | 322,000   | 135   | 315,000   | 135   | 308,000   | 130   | 300,000   | 123   | 289,000   | 125   |
| 107    | 4000             | 2.11             |  |   |   |   | 341,000   | 160   | 335,000   | 155   | 328,000   | 155   | 322,000   | 155   | 312,000   | 140   |
| 112    | 4200             | 2.32             |  |   |   |   | 360,000   | 185   | 353,000   | 185   | 348,000   | 180   | 342,000   | 180   | 334,000   | 175   |
| 118    | 4400             | 2.55             |  |   |   |   | 378,000   | 215   | 374,000   | 215   | 368,000   | 210   | 361,000   | 205   | 355,000   | 205   |
| 123    | 4600             | 2.78             |  |   |   |   | 397,000   | 245   | 392,000   | 240   | 387,000   | 240   | 381,000   | 235   | 376,000   | 235   |
| 128    | 4800             | 3.03             |  |   |   |   |   |   | 411,000   | 275   | 406,000   | 275   | 401,000   | 270   | 396,000   | 270   |
| 134    | 5000             | 3.29             |  |   |   |   |   |   | 430,000   | 315   | 425,000   | 310   | 420,000   | 305   | 415,000   | 305   |
| 140    | 5250             | 3.63             |  |   |   |   |   |   | 453,000   | 365   | 449,000   | 360   | 444,000   | 360   | 439,000   | 355   |
| 147    | 5500             | 3.98             |  |   |   |   |   |   |   |   | 472,000   | 420   | 467,000   | 410   | 463,000   | 410   |
| 150    | 5750             | 4.35             |  |   |   |   |   |   |   |   | 495,000   | 480   | 492,000   | 475   | 488,000   | 470   |
| 160    | 6000             | 4.74             |  |   |   |   |   |   |   |   | 518,000   | 550   | 515,000   | 545   | 511,000   | 540   |
| 167    | 6250             | 5.14             |  |   |   |   |   |   |   |   |   |   | 538,000   | 615   | 535,000   | 610   |
| 174    | 6500             | 5.56             |  |   |   |   |   |   |   |   |   |   | 561,000   | 695   | 558,000   | 690   |
| 181    | 6750             | 5.99             |  |   |   |   |   |   |   |   |   |   |   |   | 581,000   | 775   |
| 80     | 3000             | 1.19             | 105,000  | 28  |   |   |   |   |   |   |   |   |   |   |   |   |
| 86     | 3200             | 1.35             | 189,000  | 56  | 18,900  | 17.5  |   |   |   |   |   |   |   |   |   |   |
| 91     | 3400             | 1.52             | 223,000  | 76  |   |   |   |   |   |   |   |   |   |   |   |   |
| 96     | 3600             | 1.71             | 252,000  | 96  | 216,000   | 82  | 45,800  | 28  |   |   |   |   |   |   |   |   |
| 102    | 3800             | 1.90             | 279,000  | 120   | 250,000   | 105   | 205,000   | 86  | 24,700  | 29  |   |   |   |   |   |   |
| 107    | 4000             | 2.11             | 303,000  | 145   | 279,000   | 130   | 246,000   | 110   | 188,000   | 88  |   |   |   |   |   |   |
| 112    | 4200             | 2.32             | 326,000  | 170   | 305,000   | 160   | 279,000   | 145   | 243,000   | 125   | 71,200  | 49  |   |   |   |   |
| 118    | 4400             | 2.55             | 348,000  | 200   | 329,000   | 190   | 307,000   | 175   | 280,000   | 160   | 287,000   | 130   |   |   |   |   |
| 123    | 4600             | 2.78             | 368,000  | 230   | 353,000   | 220   | 334,000   | 210   | 310,000   | 195   | 284,000   | 175   | 44,500  | 56  |   |   |
| 128    | 4800             | 3.03             | 389,000  | 265   | 375,000   | 260   | 359,000   | 245   | 338,000   | 230   | 314,000   | 215   | 238,000   | 160   |   |   |
| 134    | 5000             | 3.29             | 410,000  | 305   | 398,000   | 295   | 383,000   | 285   | 365,000   | 270   | 344,000   | 260   | 296,000   | 210   | 38,900  | 70  |
| 140    | 5250             | 3.63             | 434,000  | 350   | 424,000   | 345   | 410,000   | 340   | 395,000   | 325   | 377,000   | 310   | 333,000   | 270   | 252,000   | 205   |
| 147    | 5500             | 3.98             | 459,000  | 405   | 449,000   | 400   | 438,000   | 395   | 424,000   | 380   | 409,000   | 370   | 371,000   | 330   | 318,000   | 280   |
| 150    | 5750             | 4.35             | 482,000  | 470   | 474,000   | 460   | 464,000   | 455   | 452,000   | 445   | 438,000   | 430   | 407,000   | 400   | 364,000   | 355   |
| 160    | 6000             | 4.74             | 508,000  | 535   | 499,000   | 525   | 490,000   | 525   | 479,000   | 510   | 467,000   | 500   | 439,000   | 470   | 403,000   | 425   |
| 167    | 6250             | 5.14             | 531,000  | 605   | 524,000   | 600   | 515,000   | 595   | 505,000   | 585   | 494,000   | 575   | 469,000   | 545   | 438,000   | 505   |
| 174    | 6500             | 5.56             | 554,000  | 685   | 545,000   | 675   | 539,000   | 670   | 531,000   | 665   | 520,000   | 655   | 499,000   | 630   | 473,000   | 595   |
| 181    | 6750             | 5.99             | 578,000  | 770   | 572,000   | 765   | 564,000   | 755   | 556,000   | 745   | 548,000   | 740   | 527,000   | 715   | 503,000   | 685   |
| 187    | 7000             | 6.45             | 601,000  | 860   | 595,000   | 855   | 588,000   | 850   | 581,000   | 840   | 573,000   | 825   | 554,000   | 810   | 533,000   | 775   |
| 200    | 7500             | 7.40             | 647,000  | 1070  | 642,000   | 1060  | 635,000   | 1010  | 629,000   | 1030  | 622,000   | 1030  | 607,000   | 1010  | 590,000   | 990   |
| 214    | 8000             | 8.41             |  |   | 688,000   | 1280  | 683,000   | 1280  | 677,000   | 1270  | 671,000   | 1250  | 657,000   | 1240  | 645,000   | 1230  |
| 227    | 8500             | 9.50             |  |   | 735,000   | 1560  | 729,000   | 1540  | 724,000   | 1530  | 719,000   | 1520  | 706,000   | 1500  | 695,000   | 1490  |
| 147    | 5500             | 3.98             | 69,800   | 100   |   |   |   |   |   |   |   |   |   |   |   |   |
| 150    | 5750             | 4.35             | 298,000  | 290   |   |   |   |   |   |   |   |   |   |   |   |   |
| 160    | 6000             | 4.74             | 356,000  | 375   | 180,000   | 180   |   |   |   |   |   |   |   |   |   |   |
| 167    | 6250             | 5.14             | 399,000  | 455   | 344,000   | 395   |   |   |   |   |   |   |   |   |   |   |
| 174    | 6500             | 5.56             | 439,000  | 545   | 397,000   | 490   | 62,300  | 160   |   |   |   |   |   |   |   |   |
| 181    | 6750             | 5.99             | 473,000  | 635   | 438,000   | 585   | 309,000   | 410   |   |   |   |   |   |   |   |   |
| 187    | 7000             | 6.45             | 507,000  | 740   | 476,000   | 685   | 390,000   | 560   | 36,300  | 170   |   |   |   |   |   |   |
| 200    | 7500             | 7.40             | 569,000  | 950   | 545,000   | 910   | 481,000   | 795   | 381,000   | 630   | 28,500  | 200   |   |   |   |   |
| 214    | 8000             | 8.41             | 625,000  | 1200  | 606,000   | 1160  | 557,000   | 1050  | 492,000   | 920   | 375,000   | 705   | 25,600  | 225   |   |   |
| 227    | 8500             | 9.50             | 679,000  | 1460  | 663,000   | 1430  | 624,000   | 1340  | 570,000   | 1220  | 509,000   | 1070  | 340,000   | 820   | 30,500  | 300   |
| 241    | 9000             | 10.67            | 729,000  | 1750  | 718,000   | 1730  | 683,000   | 1650  | 643,000   | 1590  | 591,000   | 1420  | 424,000   | 1240  | 270,000   | 670   |
| 254    | 9500             | 11.89            | 781,000  | 2060  | 769,000   | 2070  | 741,000   | 1990  | 706,000   | 1900  | 664,000   | 1780  | 481,000   | 1420  | 348,000   | 1450  |
| 268    | 10000            | 13.17            | 831,000  | 2430  | 820,000   | 2420  | 797,000   | 2370  | 766,000   | 2280  | 730,000   | 2180  | 689,000   | 2030  | 638,000   | 1870  |

### Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

170

Double Inlet

## No. 2 Multivane Fan — Design 3

Single Width

When Discharging Air at 65 F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M. H. P. Static Pressure 1/2" Water .0722 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1/2" Water .145 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 3/4" Water .217 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1" Water .289 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1 1/4" Water .361 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1 1/2" Water .434 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1 3/4" Water .506 ozs. per sq. inch |
|--------|------------------|------------------|--|---|---|---|---|---|---|
| 294    | 1000             | 0.1284           | 448 0.014  |   |   |   |   |   |   |
| 353    | 1200             | 0.185            | 724 0.033  |   |   |   |   |   |   |
| 412    | 1400             | 0.252            | 971 0.062  |   |   |   |   |   |   |
| 470    | 1600             | 0.329            | 1,220 0.100  | 830 0.067   |   |   |   |   |   |
| 529    | 1800             | 0.412            | 1,450 0.155  | 1,150 0.120   | 908 0.083   |   |   |   |   |
| 588    | 2000             | 0.511            | 1,670 0.220  | 1,400 0.180   | 1,170 0.145   | 805 0.110   |   |   |   |
| 646    | 2200             | 0.621            | 1,870 0.295  | 1,550 0.260   | 1,430 0.22  | 1,170 0.180   |   |   |   |
| 705    | 2400             | 0.740            | 2,080 0.395  | 1,880 0.355   | 1,680 0.31  | 1,450 0.265   | 1,260 0.225   |   |   |
| 765    | 2600             | 0.868            | 2,280 0.5  | 2,110 0.47  | 1,910 0.42  | 1,690 0.365   | 1,530 0.325   | 1,370 0.29  |   |
| 824    | 2800             | 1.01             |  | 2,330 0.60  | 2,150 0.55  | 1,960 0.50  | 1,790 0.46  | 1,620 0.40  | 1,470 0.365   |
| 882    | 3000             | 1.16             |  | 2,540 0.75  | 2,390 0.70  | 2,190 0.65  | 2,040 0.59  | 1,840 0.53  | 1,730 0.49  |
| 941    | 3200             | 1.32             |  | 2,750 0.92  | 2,600 0.87  | 2,410 0.81  | 2,240 0.75  | 2,090 0.70  | 1,950 0.63  |
| 1000   | 3400             | 1.49             |  | 2,960 1.10  | 2,810 1.05  | 2,670 1.00  | 2,520 0.95  | 2,340 0.89  | 2,210 0.82  |
| 1059   | 3600             | 1.67             |  | 3,150 1.35  | 3,040 1.30  | 2,910 1.25  | 2,760 1.15  | 2,600 1.10  | 2,440 1.00  |
| 1118   | 3800             | 1.86             |  |   | 3,240 1.55  | 3,120 1.50  | 2,990 1.40  | 2,850 1.35  | 2,690 1.25  |
| 1177   | 4000             | 2.01             |  |   | 3,450 1.80  | 3,330 1.75  | 3,210 1.70  | 3,080 1.60  | 2,940 1.55  |
| 1236   | 4200             | 2.27             |  |   | 3,650 2.10  | 3,550 2.05  | 3,440 2.00  | 3,320 1.90  | 3,190 1.85  |
| 1294   | 4400             | 2.49             |  |   | 3,850 2.45  | 3,750 2.40  | 3,660 2.35  | 3,550 2.25  | 3,420 2.15  |
| 1353   | 4600             | 2.72             |  |   |   | 3,950 2.75  | 3,870 2.70  | 3,760 2.60  | 3,650 2.55  |
| 1412   | 4800             | 2.96             |  |   |   | 4,160 3.15  | 4,070 3.10  | 3,980 3.00  | 3,880 2.95  |
| 1471   | 5000             | 3.21             |  |   |   | 4,360 3.55  | 4,280 3.50  | 4,200 3.45  | 4,100 3.35  |
| 1545   | 5250             | 3.54             |  |   |   | 4,600 4.15  | 4,530 4.10  | 4,460 4.05  | 4,360 3.95  |
| 1618   | 5500             | 3.89             |  |   |   |   | 4,790 4.75  | 4,710 4.7   | 4,640 4.6   |
| 1692   | 5750             | 4.25             |  |   |   |   | 5,010 5.5   | 4,970 5.4   | 4,870 5.3   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 ozs. per sq. inch                        | Static Pressure 1 1/4" Water .723 ozs. per sq. inch                   | Static Pressure 1 1/2" Water .878 ozs. per sq. inch                   | Static Pressure 1 3/4" Water 1.01 ozs. per sq. inch                 | Static Pressure 2" Water 1.16 ozs. per sq. inch                         | Static Pressure 2 1/2" Water 1.45 ozs. per sq. inch                     | Static Pressure 3" Water 1.73 ozs. per sq. inch                         |
| 882    | 3000             | 1.16             | 1,530 0.435  |   |   |   |   |   |   |
| 941    | 3200             | 1.32             | 1,810 0.58   | 1,510 0.485   |   |   |   |   |   |
| 1000   | 3400             | 1.49             | 2,050 0.76   | 1,780 0.65  |   |   |   |   |   |
| 1059   | 3600             | 1.67             | 2,290 0.95   | 2,010 0.83  | 1,820 0.74  |   |   |   |   |
| 1118   | 3800             | 1.86             | 2,540 1.20   | 2,290 1.05  | 2,120 0.97  | 1,810 0.82  |   |   |   |
| 1177   | 4000             | 2.01             | 2,800 1.45   | 2,540 1.30  | 2,340 1.20  | 2,080 1.05  | 1,790 0.87  |   |   |
| 1236   | 4200             | 2.27             | 3,050 1.75   | 2,810 1.60  | 2,600 1.45  | 2,360 1.30  | 2,070 1.15  |   |   |
| 1294   | 4400             | 2.49             | 3,300 2.10   | 3,040 1.90  | 2,800 1.75  | 2,620 1.60  | 2,350 1.45  |   |   |
| 1353   | 4600             | 2.72             | 3,530 2.45   | 3,300 2.25  | 3,100 2.10  | 2,890 1.95  | 2,680 1.80  |   |   |
| 1412   | 4800             | 2.96             | 3,760 2.85   | 3,550 2.65  | 3,340 2.50  | 3,140 2.30  | 2,900 2.10  |   |   |
| 1471   | 5000             | 3.21             | 4,000 3.30   | 3,790 3.10  | 3,590 2.90  | 3,380 2.75  | 3,140 2.50  | 2,790 2.20  | 2,400 1.90  |
| 1545   | 5250             | 3.54             | 4,280 3.85   | 4,090 3.70  | 3,880 3.50  | 3,690 3.30  | 3,470 3.05  | 3,110 2.70  | 2,810 2.45  |
| 1618   | 5500             | 3.89             | 4,560 4.55   | 4,360 4.35  | 4,180 4.15  | 3,990 3.90  | 3,760 3.65  | 3,390 3.25  | 3,100 2.95  |
| 1692   | 5750             | 4.25             | 4,820 5.3  | 4,650 5.0   | 4,480 4.85  | 4,270 4.65  | 4,090 4.4   | 3,710 3.90  | 3,420 3.55  |
| 1767   | 6000             | 4.62             | 5,070 6.0  | 4,920 5.8   | 4,760 5.6   | 4,580 5.4   | 4,400 5.2   | 4,010 4.65  | 3,730 4.35  |
| 1840   | 6250             | 5.01             | 5,350 6.9  | 5,190 6.6   | 5,030 6.4   | 4,870 6.2   | 4,700 6.0   | 4,320 5.5   | 4,050 5.0   |
| 1912   | 6500             | 5.43             | 5,600 7.7  | 5,440 7.6   | 5,300 7.4   | 5,160 7.2   | 4,990 6.9   | 4,650 6.4   | 4,360 5.8   |
| 1986   | 6750             | 5.85             | 5,850 8.7  | 5,720 8.6   | 5,580 8.3   | 5,450 8.1   | 5,280 7.9   | 4,960 7.4   | 4,670 6.9   |
| 2060   | 7000             | 6.30             | 6,090 9.8  | 5,980 9.6   | 5,850 9.5   | 5,710 9.2   | 5,570 9.0   | 5,295 8.5   | 4,980 7.9   |
| 2205   | 7500             | 7.22             |  | 6,510 12.0  | 6,380 12.0  | 6,250 11.5  | 6,120 11.5  | 5,860 11.0  | 5,570 10.5  |
| 2355   | 8000             | 8.22             |  | 6,990 14.5  | 6,890 14.5  | 6,790 14.5  | 6,690 14.0  | 6,430 13.5  | 6,160 13.0  |
| 2500   | 8500             | 9.28             |  |   | 7,390 17.5  | 7,300 17.5  | 7,190 17.0  | 6,970 16.5  | 6,750 16.0  |
| 2645   | 9000             | 10.40            |  |   | 7,880 21  | 7,800 21.0  | 7,730 20.5  | 7,520 20  | 7,300 19.5  |
| 2795   | 9500             | 11.60            |  |   |   | 8,330 24.5  | 8,230 24.5  | 8,040 24  | 7,850 23  |
| 2940   | 10000            | 12.84            |  |   |   |   | 8,710 29  | 8,550 28  | 8,390 27  |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 3 1/2" Water 2.62 ozs. per sq. inch                    | Static Pressure 4" Water 2.31 ozs. per sq. inch                       | Static Pressure 5" Water 2.89 ozs. per sq. inch                       | Static Pressure 6" Water 3.47 ozs. per sq. inch                     | Static Pressure 7" Water 4.05 ozs. per sq. inch                         | Static Pressure 8" Water 4.63 ozs. per sq. inch                         | Static Pressure 9" Water 5.2 ozs. per sq. inch                          |
| 1618   | 5500             | 3.89             | 2,730 2.60   |   |   |   |   |   |   |
| 1692   | 5750             | 4.25             | 3,160 3.15   | 2,740 2.85  |   |   |   |   |   |
| 1767   | 6000             | 4.62             | 3,400 3.85   | 3,080 3.20  |   |   |   |   |   |
| 1840   | 6250             | 5.01             | 3,710 4.55   | 3,410 4.20  |   |   |   |   |   |
| 1912   | 6500             | 5.43             | 4,000 5.4  | 3,790 4.85  | 3,190 4.25  |   |   |   |   |
| 1986   | 6750             | 5.85             | 4,310 6.3  | 4,050 5.8   | 3,520 5.0   |   |   |   |   |
| 2060   | 7000             | 6.30             | 4,620 7.3  | 4,370 6.8   | 3,840 5.9   | 3,280 5.0   |   |   |   |
| 2205   | 7500             | 7.22             | 5,250 9.6  | 5,000 8.9   | 4,470 7.9   | 3,940 7.0   | 3,410 5.9   |   |   |
| 2355   | 8000             | 8.22             | 5,880 12.5   | 5,590 11.5  | 5,080 10.5  | 4,600 9.2   | 4,130 8.3   | 3,590 7.0   |   |
| 2500   | 8500             | 9.28             | 6,500 15.5   | 6,230 14.5  | 5,700 13.5  | 5,220 12  | 4,790 11.0  | 4,350 9.9   | 3,860 8.5   |
| 2645   | 9000             | 10.40            | 7,080 18.5   | 6,830 18  | 6,330 16.5  | 5,850 15  | 5,430 14.0  | 5,030 13  | 4,620 12.0  |
| 2795   | 9500             | 11.60            | 7,660 22.5   | 7,430 22  | 6,970 20.5  | 6,480 19  | 6,040 17.5  | 5,690 16  | 5,300 15.0  |
| 2940   | 10000            | 12.84            | 8,190 27   | 8,000 26  | 7,580 25  | 7,110 23  | 6,660 21.5  | 6,270 20  | 5,940 18.5  |

### Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed<br>F.P.M. | S.N.D.<br>in<br>inches | Volume<br>C.F.M.   |  | H. P.  |  | Volume<br>C.F.M.   |  | H. P.  |      | Volume<br>C.F.M.   |      | H. P.  |       | Volume<br>C.F.M.   |      | H. P. |      | Volume<br>C.F.M. |  | H. P. |  |
|--------|---------------------|------------------------|--|--|--|--|--|--|--|------|--|------|--|-------|--|------|-------|------|------------------|--|-------|--|
|        |                     |                        | Static Pressure<br>1" Water<br>.0722 ozs. per<br>sq. inch    | Static Pressure<br>1" Water<br>.145 ozs. per<br>sq. inch | Static Pressure<br>1" Water<br>.217 ozs. per<br>sq. inch | Static Pressure<br>1" Water<br>.289 ozs. per<br>sq. inch | Static Pressure<br>1" Water<br>.361 ozs. per<br>sq. inch | Static Pressure<br>1" Water<br>.434 ozs. per<br>sq. inch | Static Pressure<br>1" Water<br>.506 ozs. per<br>sq. inch |      |  |      |  |       |  |      |       |      |                  |  |       |  |
| 235    | 1000                | 0 1281                 | 700  | 0 021  |  |  |  |  |  |      |  |      |  |       |  |      |       |      |                  |  |       |  |
| 282    | 1200                | 0 185                  | 1,130  | 0 051  |  |  |  |  |  |      |  |      |  |       |  |      |       |      |                  |  |       |  |
| 329    | 1400                | 0 252                  | 1,520  | 0 096  |  |  |  |  |  |      |  |      |  |       |  |      |       |      |                  |  |       |  |
| 376    | 1600                | 0 329                  | 1,900  | 0 160  | 1,300  | 0 105  |  |  |  |      |  |      |  |       |  |      |       |      |                  |  |       |  |
| 424    | 1800                | 0 412                  | 2,270  | 0 240  | 1,790  | 0 185  | 1,420  | 0 145  |  |      |  |      |  |       |  |      |       |      |                  |  |       |  |
| 470    | 2000                | 0 514                  | 2,600  | 0 340  | 2,180  | 0 285  | 1,830  | 0 230  | 1,400  | 0 17 |  |      |  |       |  |      |       |      |                  |  |       |  |
| 517    | 2200                | 0 621                  | 2,930  | 0 465  | 2,580  | 0 405  | 2,230  | 0 345  | 1,830  | 0 28 |  |      |  |       |  |      |       |      |                  |  |       |  |
| 565    | 2400                | 0 740                  | 3,250  | 0 61   | 2,940  | 0 056  | 2,620  | 0 485  | 2,260  | 0 41 | 1,970  | 0 35 |  |       |  |      |       |      |                  |  |       |  |
| 611    | 2600                | 0 868                  | 3,550  | 0 79   | 3,300  | 0 73   | 2,980  | 0 66   | 2,640  | 0 57 | 2,380  | 0 51 | 2,140  | 0 455 |  |      |       |      |                  |  |       |  |
| 659    | 2800                | 1 01                   |  |  | 3,630  | 0 94   | 3,350  | 0 86   | 3,070  | 0 78 | 2,800  | 0 72 | 2,530  | 0 62  | 2,300  | 0 57 |       |      |                  |  |       |  |
| 705    | 3000                | 1 16                   |  |  | 3,960  | 1 15   | 3,720  | 1 10   | 3,430  | 1 00 | 3,180  | 0 92 | 2,880  | 0 82  | 2,690  | 0 76 |       |      |                  |  |       |  |
| 753    | 3200                | 1 32                   |  |  | 4,290  | 1 45   | 4,000  | 1 35   | 3,800  | 1 25 | 3,530  | 1 45 | 3,330  | 1 10  | 3,010  | 0 99 |       |      |                  |  |       |  |
| 800    | 3400                | 1 49                   |  |  | 4,610  | 1 75   | 4,380  | 1 65   | 4,170  | 1 60 | 3,930  | 1 50 | 3,700  | 1 40  | 3,450  | 1 25 |       |      |                  |  |       |  |
| 847    | 3600                | 1 67                   |  |  | 4,920  | 2 1  | 4,740  | 2 00   | 4,540  | 1 95 | 4,300  | 1 80 | 4,060  | 1 70  | 3,810  | 1 60 |       |      |                  |  |       |  |
| 894    | 3800                | 1 86                   |  |  |  |  | 5,050  | 2 40   | 4,870  | 2 30 | 4,660  | 2 20 | 4,440  | 2 10  | 4,200  | 1 95 |       |      |                  |  |       |  |
| 941    | 4000                | 2 01                   |  |  |  |  | 5,380  | 2 80   | 5,200  | 2 75 | 5,010  | 2 65 | 4,800  | 2 55  | 4,580  | 2 40 |       |      |                  |  |       |  |
| 988    | 4200                | 2 27                   |  |  |  |  |  |  | 5,700  | 3 3  | 5,540  | 3 20 | 5,360  | 3 10  | 5,180  | 3 00 | 4,970 | 2 90 |                  |  |       |  |
| 1036   | 4400                | 2 49                   |  |  |  |  | 6,010  | 3 8  | 5,860  | 3 75 | 5,700  | 3 65 | 5,540  | 3 50  | 5,330  | 3 40 |       |      |                  |  |       |  |
| 1082   | 4600                | 2 72                   |  |  |  |  |  |  | 6,160  | 4 25 | 6,040  | 4 2  | 5,860  | 4 05  | 5,690  | 3 95 |       |      |                  |  |       |  |
| 1130   | 4800                | 2 96                   |  |  |  |  |  |  | 6,500  | 4 9  | 6,350  | 4 8  | 6,210  | 4 7   | 6,050  | 4 6  |       |      |                  |  |       |  |
| 1178   | 5000                | 3 21                   |  |  |  |  |  |  | 6,810  | 5 6  | 6,690  | 5 5  | 6,550  | 5 4   | 6,390  | 5 2  |       |      |                  |  |       |  |
| 1235   | 5250                | 3 54                   |  |  |  |  |  |  | 7,190  | 6 5  | 7,070  | 6 4  | 6,960  | 6 3   | 6,810  | 6 2  |       |      |                  |  |       |  |
| 1293   | 5500                | 3 89                   |  |  |  |  |  |  |  |      | 7,470  | 7 4  | 7,350  | 7 3   | 7,190  | 7 2  |       |      |                  |  |       |  |
| 1353   | 5750                | 4 25                   |  |  |  |  |  |  |  |      | 7,860  | 8 5  | 7,750  | 8 4   | 7,600  | 8 2  |       |      |                  |  |       |  |
| R.P.M. | Tip Speed<br>F.P.M. | S.N.D.<br>in<br>inches | Static Pressure<br>1" Water<br>.0722 ozs. per<br>sq. inch    |  | Static Pressure<br>1" Water<br>.145 ozs. per<br>sq. inch |  | Static Pressure<br>1" Water<br>.217 ozs. per<br>sq. inch |  | Static Pressure<br>1" Water<br>.289 ozs. per<br>sq. inch |      | Static Pressure<br>1" Water<br>.361 ozs. per<br>sq. inch |      | Static Pressure<br>1" Water<br>.434 ozs. per<br>sq. inch |       | Static Pressure<br>1" Water<br>.506 ozs. per<br>sq. inch |      |       |      |                  |  |       |  |
| 705    | 3000                | 1 16                   | 2,390  | 0 08   |  |  |  |  |  |      |  |      |  |       |  |      |       |      |                  |  |       |  |
| 753    | 3200                | 1 32                   | 2,820  | 0 91   | 2,350  | 0 76   |  |  |  |      |  |      |  |       |  |      |       |      |                  |  |       |  |
| 800    | 3400                | 1 49                   | 3,200  | 1 20   | 2,790  | 1 00   |  |  |  |      |  |      |  |       |  |      |       |      |                  |  |       |  |
| 847    | 3600                | 1 67                   | 3,580  | 1 50   | 3,130  | 1 30   | 2,830  | 1 15   |  |      |  |      |  |       |  |      |       |      |                  |  |       |  |
| 894    | 3800                | 1 86                   | 3,970  | 1 85   | 3,580  | 1 65   | 3,310  | 1 50   | 2,820  | 1 30 |  |      |  |       |  |      |       |      |                  |  |       |  |
| 941    | 4000                | 2 01                   | 4,360  | 2 25   | 3,970  | 2 00   | 3,690  | 1 85   | 3,240  | 1 65 | 2,800  | 1 35 |  |       |  |      |       |      |                  |  |       |  |
| 988    | 4200                | 2 27                   | 4,760  | 2 75   | 4,380  | 2 50   | 4,060  | 2 30   | 3,680  | 2 05 | 3,240  | 1 80 |  |       |  |      |       |      |                  |  |       |  |
| 1036   | 4400                | 2 49                   | 5,150  | 3 25   | 4,740  | 3 00   | 4,470  | 2 75   | 4,090  | 2 50 | 3,870  | 2 25 |  |       |  |      |       |      |                  |  |       |  |
| 1082   | 4600                | 2 72                   | 5,510  | 3 85   | 5,160  | 3 55   | 4,840  | 3 30   | 4,500  | 3 00 | 4,190  | 2 8  | 3,510  | 2 35  |  |      |       |      |                  |  |       |  |
| 1130   | 4800                | 2 96                   | 5,880  | 4 45   | 5,540  | 4 15   | 5,210  | 3 90   | 4,900  | 3 60 | 4,520  | 3 3  | 3,930  | 2 85  |  |      |       |      |                  |  |       |  |
| 1178   | 5000                | 3 21                   | 6,260  | 5 1  | 5,910  | 4 85   | 5,600  | 4 55   | 5,280  | 4 25 | 4,900  | 3 9  | 4,360  | 3 45  | 3,740  | 2 95 |       |      |                  |  |       |  |
| 1235   | 5250                | 3 54                   | 6,690  | 6 0  | 6,390  | 5 7  | 6,050  | 5 4  | 5,760  | 5 2  | 5,410  | 4 8  | 4,860  | 4 2   | 4,380  | 3 8  |       |      |                  |  |       |  |
| 1293   | 5500                | 3 89                   | 7,110  | 7 1  | 6,810  | 6 8  | 6,520  | 6 5  | 6,210  | 6 1  | 5,890  | 5 7  | 5,300  | 5 1   | 4,830  | 4 6  |       |      |                  |  |       |  |
| 1353   | 5750                | 4 25                   | 7,520  | 8 2  | 7,250  | 7 9  | 6,960  | 7 5  | 6,670  | 7 2  | 6,380  | 6 9  | 5,790  | 6 1   | 5,340  | 5 6  |       |      |                  |  |       |  |
| 1412   | 6000                | 4 62                   | 7,910  | 9 4  | 7,690  | 9 1  | 7,440  | 8 8  | 7,150  | 8 4  | 6,860  | 8 1  | 6,260  | 7 2   | 5,830  | 6 8  |       |      |                  |  |       |  |
| 1471   | 6250                | 5 01                   | 8,350  | 10 5   | 8,100  | 10 5   | 7,870  | 10 0   | 7,600  | 9 7  | 7,350  | 9 3  | 6,750  | 8 5   | 6,310  | 7 9  |       |      |                  |  |       |  |
| 1530   | 6500                | 5 43                   | 8,740  | 12 0   | 8,530  | 12 0   | 8,280  | 11 5   | 8,050  | 11 0 | 7,800  | 11 0 | 7,200  | 10 0  | 6,810  | 9 1  |       |      |                  |  |       |  |
| 1589   | 6750                | 5 85                   | 9,130  | 13 5   | 8,930  | 13 5   | 8,710  | 13 0   | 8,500  | 12 5 | 8,250  | 12 5 | 7,750  | 11 5  | 7,300  | 10 5 |       |      |                  |  |       |  |
| 1648   | 7000                | 6 20                   | 9,520  | 15 5   | 9,340  | 15 0   | 9,140  | 15 0   | 8,920  | 14 5 | 8,700  | 14 0 | 8,220  | 13    | 7,780  | 12 5 |       |      |                  |  |       |  |
| 1764   | 7500                | 7 22                   |  |  | 10,200   | 18 5   | 9,960  | 18 5   | 9,760  | 18 0 | 9,560  | 17 5 | 9,150  | 17    | 8,700  | 16   |       |      |                  |  |       |  |
| 1882   | 8000                | 8 22                   |  |  | 10,900   | 23   | 10,600   | 22 5   | 10,400   | 22   | 10,200   | 22   | 10,000   | 21    | 9,610  | 20   |       |      |                  |  |       |  |
| 2000   | 8500                | 9 28                   |  |  |  |  | 11,500   | 27   | 11,400   | 27   | 11,200   | 27   | 10,900   | 26    | 10,500   | 25   |       |      |                  |  |       |  |
| 2120   | 9000                | 10 40                  |  |  |  |  | 12,300   | 33   | 12,200   | 32   | 12,100   | 32   | 11,700   | 31    | 11,400   | 30   |       |      |                  |  |       |  |
| 2237   | 9500                | 11 60                  |  |  |  |  |  |  | 13,000   | 38   | 12,800   | 38   | 12,500   | 37    | 12,300   | 36   |       |      |                  |  |       |  |
| 2352   | 10000               | 12 84                  |  |  |  |  |  |  |  |      | 13,000   | 45   | 13,400   | 44    | 13,100   | 43   |       |      |                  |  |       |  |
| R.P.M. | Tip Speed<br>F.P.M. | S.N.D.<br>in<br>inches | Static Pressure<br>2 1/2" Water<br>2.02 ozs. per<br>sq. inch |  | Static Pressure<br>4" Water<br>2.31 ozs. per<br>sq. inch |  | Static Pressure<br>5" Water<br>2.89 ozs. per<br>sq. inch |  | Static Pressure<br>6" Water<br>3.47 ozs. per<br>sq. inch |      | Static Pressure<br>7" Water<br>4.05 ozs. per<br>sq. inch |      | Static Pressure<br>8" Water<br>4.63 ozs. per<br>sq. inch |       | Static Pressure<br>9" Water<br>5.2 ozs. per<br>sq. inch  |      |       |      |                  |  |       |  |
| 1293   | 5500                | 3 89                   | 4,270  | 4 05   |  |  |  |  |  |      |  |      |  |       |  |      |       |      |                  |  |       |  |
| 1353   | 5750                | 4 25                   | 4,780  | 4 9  | 4,280  | 4 45   |  |  |  |      |  |      |  |       |  |      |       |      |                  |  |       |  |
| 1412   | 6000                | 4 62                   | 5,300  | 6 0  | 4,800  | 4 95   |  |  |  |      |  |      |  |       |  |      |       |      |                  |  |       |  |
| 1471   | 6250                | 5 01                   | 5,800  | 7 1  | 5,320  | 6 5  |  |  |  |      |  |      |  |       |  |      |       |      |                  |  |       |  |
| 1530   | 6500                | 5 43                   | 6,250  | 8 4  | 5,910  | 7 6  | 4,970  | 6 6  |  |      |  |      |  |       |  |      |       |      |                  |  |       |  |
| 1589   | 6750                | 5 85                   | 6,730  | 9 8  | 6,330  | 9 1  | 5,490  | 7 9  |  |      |  |      |  |       |  |      |       |      |                  |  |       |  |
| 1648   | 7000                | 6 20                   | 7,220  | 11 5   | 6,830  | 10 5   | 5,990  | 9 3  | 5,110  | 7 9  |  |      |  |       |  |      |       |      |                  |  |       |  |
| 1764   | 7500                | 7 22                   | 8,200  | 15   | 7,810  | 14   | 6,970  | 12 5   | 6,150  | 11 0 | 5,320  | 9 2  |  |       |  |      |       |      |                  |  |       |  |
| 1882   | 8000                | 8 22                   | 9,190  | 19   | 8,740  | 18   | 7,920  | 16 0   | 7,180  | 14 5 | 6,440  | 13   | 5,600  | 11 0  |  |      |       |      |                  |  |       |  |
| 2000   | 8500                | 9 28                   | 10,100   | 24   | 9,720  | 23   | 8,890  | 20 5   | 8,150  | 18 5 | 7,470  | 17   | 6,800  | 15 5  | 6,020  | 13 5 |       |      |                  |  |       |  |
| 2120   | 9000                | 10 40                  | 11,000   | 29   | 10,700   | 28   | 9,890  | 26   | 9,140  | 23 5 | 8,500  | 22   | 7,860  | 20    | 7,210  | 18 5 |       |      |                  |  |       |  |
| 2237   | 9500                | 11 60                  | 12,000   | 35   | 11,600   | 34   | 10,900   | 32   | 10,100   | 30   | 9,420  | 27   | 8,880  | 25    | 8,280  | 23 5 |       |      |                  |  |       |  |
| 2352   | 10000               | 12 84                  | 12,800   | 42   | 12,500   | 41   | 11,800   | 39   | 11,100   | 36   | 10,400   | 34   | 9,800  | 31    | 9,270  | 29   |       |      |                  |  |       |  |



Double Inlet

## No. 4 Multivane Fan — Design 3

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.<br>Static Pressure<br>1" Water<br>.0722 ozs. per sq. inch | H. P.   | Volume C.F.M.<br>Static Pressure<br>1 1/2" Water<br>.145 ozs. per sq. inch | H. P.   | Volume C.F.M.<br>Static Pressure<br>2" Water<br>.217 ozs. per sq. inch | H. P.   | Volume C.F.M.<br>Static Pressure<br>2 1/2" Water<br>.289 ozs. per sq. inch | H. P.   | Volume C.F.M.<br>Static Pressure<br>3" Water<br>.361 ozs. per sq. inch | H. P.   | Volume C.F.M.<br>Static Pressure<br>3 1/2" Water<br>.434 ozs. per sq. inch | H. P.   | Volume C.F.M.<br>Static Pressure<br>4" Water<br>.506 ozs. per sq. inch | H. P.  |
|--------|------------------|------------------|---|---|--|---|--|---|--|---|--|---|--|---|--|--|
| 196    | 1000             | 0 128 4          | 1,010   | 0 031   |  |   |  |   |  |   |  |   |  |   |  |  |
| 235    | 1200             | 0 185            | 1,630   | 0 074   |  |   |  |   |  |   |  |   |  |   |  |  |
| 274    | 1400             | 0 252            | 2,180   | 0 140   |  |   |  |   |  |   |  |   |  |   |  |  |
| 314    | 1600             | 0 329            | 2,710   | 0 230   | 1,870  | 0 150   |  |   |  |   |  |   |  |   |  |  |
| 353    | 1800             | 0 412            | 3,260   | 0 345   | 2,580  | 0 265   | 2,040  | 0 210   |  |   |  |   |  |   |  |  |
| 392    | 2000             | 0 514            | 3,750   | 0 49  | 3,150  | 0 41  | 2,630  | 0 330   | 2,010  | 0 245   |  |   |  |   |  |  |
| 431    | 2200             | 0 621            | 4,210   | 0 67  | 3,710  | 0 59  | 3,210  | 0 495   | 2,640  | 0 40  |  |   |  |   |  |  |
| 476    | 2400             | 0 740            | 4,670   | 0 89  | 4,230  | 0 80  | 3,760  | 0 70  | 3,260  | 0 59  | 2,840  | 0 51  |  |   |  |  |
| 510    | 2600             | 0 868            | 5,120   | 1 15  | 4,750  | 1 05  | 4,290  | 0 95  | 3,800  | 0 82  | 3,430  | 0 73  | 3,090  | 0 66  |  |  |
| 549    | 2800             | 1 01             |   |   | 5,230  | 1 35  | 4,820  | 1 25  | 4,410  | 1 10  | 4,030  | 1 05  | 3,640  | 0 90  | 3,310  | 0 82   |
| 588    | 3000             | 1 16             |   |   | 5,700  | 1 70  | 5,300  | 1 60  | 4,930  | 1 45  | 4,580  | 1 35  | 4,150  | 1 20  | 3,880  | 1 10   |
| 627    | 3200             | 1 32             |   |   | 6,180  | 2 05  | 5,850  | 1 95  | 5,470  | 1 85  | 5,080  | 1 70  | 4,790  | 1 55  | 4,380  | 1 45   |
| 666    | 3400             | 1 49             |   |   | 6,640  | 2 5   | 6,300  | 2 40  | 6,010  | 2 25  | 5,660  | 2 15  | 5,320  | 2 00  | 4,970  | 1 85   |
| 705    | 3600             | 1 67             |   |   | 7,090  | 3   | 6,820  | 2 90  | 6,530  | 2 75  | 6,200  | 2 60  | 5,850  | 2 45  | 5,490  | 2 30   |
| 745    | 3800             | 1 86             |   |   |  |   | 7,270  | 3 45  | 7,010  | 3 30  | 6,710  | 3 15  | 6,400  | 3 00  | 6,050  | 2 85   |
| 785    | 4000             | 2 01             |   |   |  |   | 7,740  | 4 05  | 7,500  | 3 95  | 7,210  | 3 80  | 6,920  | 3 65  | 6,600  | 3 45   |
| 824    | 4200             | 2 27             |   |   |  |   | 8,200  | 4 75  | 7,970  | 4 6   | 7,720  | 4 45  | 7,460  | 4 3   | 7,160  | 4 15   |
| 862    | 4400             | 2 49             |   |   |  |   | 8,650  | 5 5   | 8,440  | 5 4   | 8,210  | 5 2   | 7,980  | 5 1   | 7,680  | 4 9  |
| 901    | 4600             | 2 72             |   |   |  |   |  |   | 8,880  | 6 2   | 8,700  | 6 0   | 8,440  | 5 9   | 8,200  | 5 7  |
| 941    | 4800             | 2 96             |   |   |  |   |  |   | 9,360  | 7 1   | 9,150  | 6 9   | 8,950  | 6 8   | 8,710  | 6 6  |
| 980    | 5000             | 3 21             |   |   |  |   |  |   | 9,800  | 8 0   | 9,620  | 7 9   | 9,440  | 7 8   | 9,200  | 7 6  |
| 1030   | 5250             | 3 54             |   |   |  |   |  |   | 10,400   | 9 3   | 10,200   | 9 2   | 10,000   | 9 1   | 9,800  | 8 9  |
| 1078   | 5500             | 3 89             |   |   |  |   |  |   |  |   | 10,800   | 10 5  | 10,600   | 10 5  | 10,400   | 10 5   |
| 1128   | 5750             | 4 25             |   |   |  |   |  |   |  |   | 11,300   | 12 5  | 11,200   | 12  | 10,900   | 12   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure<br>1" Water<br>.0722 ozs. per sq. inch                  | Static Pressure<br>1 1/2" Water<br>.145 ozs. per sq. inch | Static Pressure<br>2" Water<br>.217 ozs. per sq. inch                      | Static Pressure<br>2 1/2" Water<br>.289 ozs. per sq. inch | Static Pressure<br>3" Water<br>.361 ozs. per sq. inch                  | Static Pressure<br>3 1/2" Water<br>.434 ozs. per sq. inch | Static Pressure<br>4" Water<br>.506 ozs. per sq. inch                      | Static Pressure<br>4 1/2" Water<br>.578 ozs. per sq. inch | Static Pressure<br>5" Water<br>.649 ozs. per sq. inch                  | Static Pressure<br>5 1/2" Water<br>.720 ozs. per sq. inch | Static Pressure<br>6" Water<br>.791 ozs. per sq. inch                      | Static Pressure<br>6 1/2" Water<br>.862 ozs. per sq. inch | Static Pressure<br>7" Water<br>.933 ozs. per sq. inch                  | Static Pressure<br>7 1/2" Water<br>1.004 ozs. per sq. inch |
| 588    | 3000             | 1 16             | 3,150   | 0 98  |  |   |  |   |  |   |  |   |  |   |  |  |
| 627    | 3200             | 1 32             | 4,060   | 1 30  | 3,380  | 1 10  |  |   |  |   |  |   |  |   |  |  |
| 666    | 3400             | 1 49             | 4,600   | 1 70  | 4,000  | 1 45  |  |   |  |   |  |   |  |   |  |  |
| 705    | 3600             | 1 67             | 5,160   | 2 15  | 4,500  | 1 85  | 4,080  | 1 65  |  |   |  |   |  |   |  |  |
| 745    | 3800             | 1 86             | 5,710   | 2 65  | 5,160  | 2 4   | 4,770  | 2 15  | 4,060  | 1 85  |  |   |  |   |  |  |
| 785    | 4000             | 2 01             | 6,290   | 3 25  | 5,710  | 2 9   | 5,260  | 2 65  | 4,680  | 2 35  | 4,030  | 1 95  |  |   |  |  |
| 824    | 4200             | 2 27             | 6,860   | 3 95  | 6,300  | 3 6   | 5,850  | 3 30  | 5,310  | 2 95  | 4,660  | 2 60  |  |   |  |  |
| 862    | 4400             | 2 49             | 7,410   | 4 7   | 6,820  | 4 3   | 6,440  | 3 95  | 5,890  | 3 60  | 5,290  | 3 25  |  |   |  |  |
| 901    | 4600             | 2 72             | 7,940   | 5 5   | 7,410  | 5 1   | 6,970  | 4 75  | 6,470  | 4 35  | 6,030  | 4 05  | 5,050  | 3 40  |  |  |
| 941    | 4800             | 2 96             | 8,460   | 6 4   | 7,970  | 6 0   | 7,510  | 5 6   | 7,060  | 5 2   | 6,510  | 4 75  | 5,660  | 4 10  |  |  |
| 980    | 5000             | 3 21             | 9,000   | 7 4   | 8,500  | 7 0   | 8,070  | 6 6   | 7,600  | 6 1   | 7,060  | 5 6   | 6,270  | 4 95  | 5,390  | 4 25   |
| 1030   | 5250             | 3 54             | 9,620   | 8 7   | 9,180  | 8 3   | 8,710  | 7 8   | 8,200  | 7 4   | 7,790  | 6 9   | 7,000  | 6 0   | 6,310  | 5 5  |
| 1078   | 5500             | 3 89             | 10,200  | 10 0  | 9,800  | 9 7   | 9,390  | 9 3   | 8,950  | 8 8   | 8,440  | 8 3   | 7,620  | 7 3   | 6,960  | 6 7  |
| 1128   | 5750             | 4 25             | 10,800  | 13 0  | 10,400   | 11 5  | 10,000   | 11 0  | 9,600  | 10 5  | 9,180  | 9 9   | 8,330  | 8 8   | 7,680  | 8 0  |
| 1177   | 6000             | 4 62             | 11,400  | 13 5  | 11,100   | 13 0  | 10,700   | 12 5  | 10,300   | 12 0  | 9,890  | 11 5  | 9,020  | 10 5  | 8,390  | 9 8  |
| 1225   | 6250             | 5 01             | 12,000  | 15 5  | 11,700   | 15 0  | 11,300   | 14 5  | 10,900   | 14 0  | 10,600   | 13 5  | 9,710  | 12 5  | 9,100  | 11 5   |
| 1275   | 6500             | 5 43             | 12,600  | 17 5  | 12,300   | 17 0  | 11,900   | 16 5  | 11,600   | 16 0  | 11,200   | 15 5  | 10,500   | 14 5  | 9,810  | 13 0   |
| 1323   | 6750             | 5 85             | 13,200  | 19 5  | 12,900   | 19 5  | 12,600   | 18 5  | 12,200   | 18 5  | 11,900   | 17 5  | 11,200   | 16 5  | 10,500   | 15 5   |
| 1372   | 7000             | 6 30             | 13,700  | 22  | 13,400   | 21 5  | 13,200   | 21 5  | 12,900   | 20 5  | 12,600   | 20  | 11,800   | 19 0  | 11,200   | 18   |
| 1471   | 7500             | 7 22             |   |   | 14,600   | 27  | 14,300   | 27  | 14,100   | 26  | 13,800   | 25  | 13,200   | 24 5  | 12,500   | 23   |
| 1569   | 8000             | 8 22             |   |   | 15,700   | 33  | 15,500   | 33  | 15,200   | 32  | 15,000   | 31  | 14,400   | 30  | 13,800   | 29   |
| 1668   | 8500             | 9 28             |   |   |  |   | 16,600   | 39  | 16,400   | 39  | 16,200   | 38  | 15,700   | 37  | 15,200   | 36   |
| 1764   | 9000             | 10 40            |   |   |  |   | 17,700   | 47  | 17,600   | 47  | 17,400   | 46  | 16,900   | 45  | 16,400   | 44   |
| 1862   | 9500             | 11 60            |   |   |  |   |  |   | 18,700   | 56  | 18,500   | 54  | 18,100   | 54  | 17,100   | 52   |
| 1960   | 10000            | 12 84            |   |   |  |   |  |   |  |   | 19,600   | 64  | 19,300   | 64  | 18,900   | 62   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure<br>3 1/2" Water<br>1.004 ozs. per sq. inch              | Static Pressure<br>4" Water<br>1.075 ozs. per sq. inch    | Static Pressure<br>4 1/2" Water<br>1.146 ozs. per sq. inch                 | Static Pressure<br>5" Water<br>1.217 ozs. per sq. inch    | Static Pressure<br>5 1/2" Water<br>1.288 ozs. per sq. inch             | Static Pressure<br>6" Water<br>1.359 ozs. per sq. inch    | Static Pressure<br>6 1/2" Water<br>1.430 ozs. per sq. inch                 | Static Pressure<br>7" Water<br>1.501 ozs. per sq. inch    | Static Pressure<br>7 1/2" Water<br>1.572 ozs. per sq. inch             | Static Pressure<br>8" Water<br>1.643 ozs. per sq. inch    | Static Pressure<br>8 1/2" Water<br>1.714 ozs. per sq. inch                 | Static Pressure<br>9" Water<br>1.785 ozs. per sq. inch    | Static Pressure<br>9 1/2" Water<br>1.856 ozs. per sq. inch             | Static Pressure<br>10" Water<br>1.927 ozs. per sq. inch    |
| 1078   | 5500             | 3 89             | 6,140   | 5 9   |  |   |  |   |  |   |  |   |  |   |  |  |
| 1128   | 5750             | 4 25             | 6,890   | 7 1   | 6,160  | 6 4   |  |   |  |   |  |   |  |   |  |  |
| 1177   | 6000             | 4 62             | 7,620   | 8 6   | 6,920  | 7 2   |  |   |  |   |  |   |  |   |  |  |
| 1225   | 6250             | 5 01             | 8,350   | 10 5  | 7,660  | 9 4   |  |   |  |   |  |   |  |   |  |  |
| 1275   | 6500             | 5 43             | 9,000   | 12 0  | 8,510  | 11 0  | 7,160  | 9 6   |  |   |  |   |  |   |  |  |
| 1323   | 6750             | 5 85             | 9,690   | 14 0  | 9,110  | 13 0  | 7,900  | 11 5  |  |   |  |   |  |   |  |  |
| 1372   | 7000             | 6 30             | 10,400  | 16 5  | 9,840  | 15 5  | 8,630  | 13 5  | 7,300  | 11 5  |  |   |  |   |  |  |
| 1471   | 7500             | 7 22             | 11,800  | 21 5  | 11,200   | 20  | 10,000   | 18  | 8,850  | 15 5  | 7,600  | 13 0  |  |   |  |  |
| 1569   | 8000             | 8 22             | 13,200  | 28  | 12,600   | 26  | 11,400   | 23  | 10,300   | 20 5  | 9,280  | 18 5  | 8,070  | 15 5  |  |  |
| 1668   | 8500             | 9 28             | 14,600  | 35  | 14,000   | 33  | 12,800   | 30  | 11,700   | 27  | 10,800   | 24 5  | 9,800  | 22 5  | 8,670  | 19 5   |
| 1764   | 9000             | 10 40            | 15,900  | 42  | 15,400   | 41  | 14,200   | 37  | 13,100   | 34  | 12,200   | 31  | 11,300   | 29  | 10,400   | 27   |
| 1862   | 9500             | 11 60            | 17,200  | 50  | 16,700   | 50  | 15,700   | 46  | 14,600   | 43  | 13,600   | 39  | 12,800   | 36  | 11,900   | 34   |
| 1960   | 10000            | 12 84            | 18,400  | 60  | 18,000   | 58  | 17,000   | 56  | 16,000   | 52  | 15,000   | 48  | 14,100   | 45  | 13,400   | 42   |



Double Inlet

## No. 5 Multivane Fan — Design 3

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.                                       | H. P.   | Volume C.F.M.                                       | H. P.   | Volume C.F.M.                                       | H. P.   | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                   | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                   | H. P. |
|--------|------------------|------------------|---|---|---|---|---|---|---|-------|---|-------|---|-------|---|-------|
|        |                  |                  | Static Pressure 1" Water .0722 ozs. per sq. inch    |   | Static Pressure 1" Water .145 ozs. per sq. inch     |   | Static Pressure 1 1/2" Water .217 ozs. per sq. inch |   | Static Pressure 1 1/2" Water .289 ozs. per sq. inch |       | Static Pressure 2" Water .361 ozs. per sq. inch |       | Static Pressure 2 1/2" Water .434 ozs. per sq. inch |       | Static Pressure 3" Water .506 ozs. per sq. inch |       |
| 168    | 1000             | 0 1281           | 1 370   | 0 012   |   |   |   |   |   |       |   |       |   |       |   |       |
| 202    | 1200             | 0 184            | 2 220   | 0 100   |   |   |   |   |   |       |   |       |   |       |   |       |
| 235    | 1400             | 0 252            | 2 980   | 0 190   |   |   |   |   |   |       |   |       |   |       |   |       |
| 269    | 1600             | 0 329            | 3 730   | 0 310   | 2 550   | 0 205   |   |   |   |       |   |       |   |       |   |       |
| 302    | 1800             | 0 412            | 4 480   | 0 475   | 3 520   | 0 365   | 2 780   | 0 285   |   |       |   |       |   |       |   |       |
| 336    | 2000             | 0 514            | 5 110   | 0 67  | 4 290   | 0 56  | 3 590   | 0 45  | 2 750   | 0 335 |   |       |   |       |   |       |
| 370    | 2200             | 0 621            | 5 750   | 0 91  | 5 060   | 0 80  | 4 380   | 0 68  | 3 590   | 0 55  |   |       |   |       |   |       |
| 404    | 2400             | 0 740            | 6 370   | 1 20  | 5 770   | 1 10  | 5 140   | 0 96  | 4 440   | 0 81  | 3 870   | 0 69  |   |       |   |       |
| 437    | 2600             | 0 868            | 6 980   | 1 55  | 6 480   | 1 45  | 5 840   | 1 30  | 5 190   | 1 10  | 4 680   | 1 00  | 4 210   | 0 90  |   |       |
| 470    | 2800             | 1 01             |   |   | 7 140   | 1 85  | 6 580   | 1 70  | 6 010   | 1 55  | 5 490   | 1 40  | 4 960   | 1 25  | 4 510   | 1 10  |
| 504    | 3000             | 1 16             |   |   | 7 760   | 2 30  | 7 310   | 2 15  | 6 730   | 2 00  | 6 250   | 1 80  | 5 650   | 1 60  | 5 290   | 1 50  |
| 538    | 3200             | 1 32             |   |   | 8 430   | 2 85  | 7 960   | 2 70  | 7 460   | 2 50  | 6 940   | 2 30  | 6 520   | 2 15  | 5 970   | 1 95  |
| 571    | 3400             | 1 49             |   |   | 9 060   | 3 45  | 8 600   | 3 25  | 8 200   | 3 10  | 7 720   | 2 90  | 7 260   | 2 70  | 6 780   | 2 5   |
| 605    | 3600             | 1 67             |   |   | 9 690   | 4 1   | 9 310   | 3 95  | 8 900   | 3 80  | 8 450   | 3 60  | 7 970   | 3 35  | 7 490   | 3 1   |
| 639    | 3800             | 1 86             |   |   |   |   | 9 910   | 4 7   | 9 560   | 4 54  | 9 150   | 4 35  | 8 730   | 4 10  | 8 250   | 3 9   |
| 672    | 4000             | 2 01             |   |   |   |   | 10 600  | 5 5   | 10 200  | 5 4   | 9 850   | 5 2   | 9 440   | 4 95  | 9 000   | 4 7   |
| 705    | 4200             | 2 27             |   |   |   |   | 11 200  | 6 5   | 10 900  | 6 3   | 10 500  | 6 1   | 10 200  | 5 9   | 9 760   | 5 7   |
| 740    | 4400             | 2 49             |   |   |   |   | 11 800  | 7 5   | 11 500  | 7 3   | 11 200  | 7 1   | 10 900  | 6 9   | 10 500  | 6 7   |
| 773    | 4600             | 2 72             |   |   |   |   |   |   | 12 100  | 8 4   | 11 900  | 8 2   | 11 500  | 8 0   | 11 200  | 7 8   |
| 807    | 4800             | 2 96             |   |   |   |   |   |   | 12 800  | 9 7   | 12 500  | 9 5   | 12 200  | 9 2   | 11 900  | 9 0   |
| 840    | 5000             | 3 21             |   |   |   |   |   |   | 13 400  | 11 0  | 13 100  | 11 0  | 12 900  | 10 5  | 12 600  | 10 5  |
| 882    | 5250             | 3 54             |   |   |   |   |   |   | 14 100  | 12 5  | 13 900  | 12 5  | 13 700  | 12 5  | 13 400  | 12    |
| 925    | 5500             | 3 89             |   |   |   |   |   |   |   |       | 14 700  | 14 5  | 14 400  | 14 5  | 14 100  | 14    |
| 966    | 5750             | 4 25             |   |   |   |   |   |   |   |       | 15 400  | 17    | 15 200  | 16 5  | 14 900  | 16    |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 ozs. per sq. inch     | Static Pressure 1 1/2" Water .723 ozs. per sq. inch | Static Pressure 1 1/2" Water .878 ozs. per sq. inch | Static Pressure 2" Water 1.01 ozs. per sq. inch | Static Pressure 2 1/2" Water 1.16 ozs. per sq. inch | Static Pressure 3" Water 1.45 ozs. per sq. inch | Static Pressure 3" Water 1.73 ozs. per sq. inch     |       |   |       |   |       |   |       |
| 504    | 3000             | 1 16             | 4 710   | 1 35  |   |   |   |   |   |       |   |       |   |       |   |       |
| 538    | 3200             | 1 32             | 5 540   | 1 80  | 4 620   | 1 50  |   |   |   |       |   |       |   |       |   |       |
| 571    | 3400             | 1 49             | 6 280   | 2 30  | 5 460   | 2 00  |   |   |   |       |   |       |   |       |   |       |
| 605    | 3600             | 1 67             | 7 040   | 2 90  | 6 150   | 2 55  | 5 560   | 2 25  |   |       |   |       |   |       |   |       |
| 639    | 3800             | 1 86             | 7 800   | 3 65  | 7 040   | 3 25  | 6 500   | 2 95  | 5 540   | 2 5   |   |       |   |       |   |       |
| 672    | 4000             | 2 01             | 8 580   | 4 45  | 7 790   | 3 95  | 7 190   | 3 6   | 6 370   | 3 2   | 5 500   | 2 70  |   |       |   |       |
| 705    | 4200             | 2 27             | 9 360   | 5 4   | 8 600   | 4 9   | 7 960   | 4 5   | 7 240   | 4 0   | 6 350   | 3 55  |   |       |   |       |
| 740    | 4400             | 2 49             | 10 100  | 6 4   | 9 310   | 5 8   | 8 780   | 5 4   | 8 010   | 4 9   | 7 210   | 4 4   |   |       |   |       |
| 773    | 4600             | 2 72             | 10 800  | 7 5   | 10 100  | 7 0   | 9 510   | 6 5   | 8 830   | 5 9   | 8 220   | 5 5   | 6 890   | 4 6   |   |       |
| 807    | 4800             | 2 96             | 11 500  | 8 7   | 10 900  | 8 2   | 10 200  | 7 8   | 9 610   | 7 1   | 8 880   | 6 5   | 7 720   | 5 6   |   |       |
| 840    | 5000             | 3 21             | 12 300  | 10 0  | 11 600  | 9 5   | 11 000  | 8 9   | 10 400  | 8 4   | 9 610   | 7 6   | 8 550   | 6 7   | 7 350   | 5 8   |
| 882    | 5250             | 3 54             | 13 100  | 12 0  | 12 500  | 11 5  | 11 900  | 10 5  | 11 300  | 10 0  | 10 600  | 9 4   | 9 540   | 8 3   | 8 600   | 7 5   |
| 925    | 5500             | 3 89             | 14 000  | 14 0  | 13 400  | 13 5  | 12 800  | 12 5  | 12 200  | 12 0  | 11 500  | 11 5  | 10 400  | 10 0  | 9 490   | 9 0   |
| 966    | 5750             | 4 25             | 14 800  | 16 0  | 14 200  | 15 5  | 13 700  | 15 0  | 13 100  | 14 0  | 12 500  | 13 5  | 11 400  | 12 0  | 10 500  | 11 0  |
| 1009   | 6000             | 4 62             | 15 600  | 18 5  | 15 100  | 18 0  | 14 600  | 17 0  | 14 000  | 16 5  | 13 500  | 16 0  | 12 300  | 14 0  | 11 400  | 13 5  |
| 1050   | 6250             | 5 01             | 16 400  | 21 0  | 15 900  | 20 5  | 15 500  | 19 5  | 14 900  | 19    | 14 400  | 18 5  | 13 200  | 17 0  | 12 400  | 15 5  |
| 1092   | 6500             | 5 43             | 17 200  | 23 5  | 16 800  | 23  | 16 300  | 22 5  | 15 800  | 22    | 15 300  | 21    | 14 300  | 19 5  | 13 400  | 18 0  |
| 1134   | 6750             | 5 85             | 17 400  | 27  | 17 600  | 26  | 17 100  | 26  | 16 700  | 25    | 16 200  | 24    | 15 200  | 22 5  | 14 300  | 21 0  |
| 1177   | 7000             | 6 30             | 18 700  | 30  | 18 300  | 30  | 18 000  | 29  | 17 500  | 28    | 17 100  | 28    | 16 100  | 26    | 15 300  | 24 5  |
| 1260   | 7500             | 7 22             | 20 000  | 37  | 20 000  | 37  | 19 500  | 36  | 19 200  | 35    | 18 800  | 35    | 18 000  | 33    | 17 100  | 31    |
| 1344   | 8000             | 8 22             | 21 400  | 45  | 21 400  | 45  | 21 100  | 44  | 20 800  | 44    | 20 400  | 43    | 19 700  | 41    | 18 900  | 40    |
| 1430   | 8500             | 9 28             |   |   | 22 600  | 54  | 22 600  | 54  | 22 400  | 54    | 22 000  | 52    | 21 400  | 50    | 20 700  | 49    |
| 1511   | 9000             | 10 40            |   |   | 24 200  | 64  |   |   | 23 900  | 64    | 23 700  | 64    | 23 000  | 62    | 22 400  | 60    |
| 1598   | 9500             | 11 60            |   |   |   |   | 21 400  | 64  |   |       | 25 200  | 74    | 24 600  | 74    | 24 100  | 72    |
| 1680   | 10000            | 12 84            |   |   |   |   |   |   | 25 500  | 76    |   |       | 26 300  | 86    | 25 700  | 84    |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 3 1/2" Water 2.02 ozs. per sq. inch | Static Pressure 4" Water 2.31 ozs. per sq. inch     | Static Pressure 5" Water 2.89 ozs. per sq. inch     | Static Pressure 6" Water 3.47 ozs. per sq. inch | Static Pressure 7" Water 4.05 ozs. per sq. inch     | Static Pressure 8" Water 4.63 ozs. per sq. inch | Static Pressure 9" Water 5.2 ozs. per sq. inch      |       |   |       |   |       |   |       |
| 925    | 5500             | 3 89             | 8 380   | 8 0   |   |   |   |   |   |       |   |       |   |       |   |       |
| 966    | 5750             | 4 25             | 9 390   | 9 6   | 8 400   | 8 8   |   |   |   |       |   |       |   |       |   |       |
| 1009   | 6000             | 4 62             | 10 400  | 12 0  | 9 440   | 9 8   |   |   |   |       |   |       |   |       |   |       |
| 1050   | 6250             | 5 01             | 11 400  | 14 0  | 10 400  | 13  |   |   |   |       |   |       |   |       |   |       |
| 1092   | 6500             | 5 43             | 12 300  | 16 5  | 11 600  | 15  | 9 760   | 13 0  |   |       |   |       |   |       |   |       |
| 1134   | 6750             | 5 85             | 13 200  | 19 0  | 12 400  | 18  | 10 800  | 15 5  |   |       |   |       |   |       |   |       |
| 1177   | 7000             | 6 30             | 14 200  | 22 5  | 13 100  | 21  | 11 800  | 18 0  | 10 000  | 15 5  |   |       |   |       |   |       |
| 1260   | 7500             | 7 22             | 16 100  | 29  | 15 300  | 27  | 13 700  | 24 5  | 12 100  | 21 5  | 10 100  | 18    |   |       |   |       |
| 1344   | 8000             | 8 22             | 18 000  | 38  | 17 100  | 36  | 15 600  | 32  | 14 100  | 28    | 12 700  | 26    | 11 000  | 21 5  |   |       |
| 1430   | 8500             | 9 28             | 19 900  | 47  | 19 100  | 45  | 17 500  | 41  | 16 000  | 37    | 14 700  | 33    | 13 300  | 30    | 11 800  | 26    |
| 1511   | 9000             | 10 40            | 21 700  | 58  | 20 900  | 56  | 19 400  | 52  | 17 900  | 46    | 16 700  | 43    | 15 400  | 39    | 14 200  | 36    |
| 1598   | 9500             | 11 60            | 23 500  | 70  | 22 800  | 68  | 21 400  | 64  | 19 900  | 58    | 18 500  | 54    | 17 400  | 50    | 16 300  | 46    |
| 1680   | 10000            | 12 84            | 25 100  | 82  | 24 500  | 80  | 23 200  | 76  | 21 800  | 70    | 20 400  | 66    | 19 200  | 62    | 18 200  | 58    |

Double Inlet

## No. 6 Multivane Fan — Design 3

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                     | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. |
|--------|------------------|------------------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|
|        |                  |                  | Static Pressure 1/4" Water .0722 ozs. per sq. inch  |       | Static Pressure 1/4" Water .145 ozs. per sq. inch   |       | Static Pressure 3/8" Water .217 ozs. per sq. inch   |       | Static Pressure 1/2" Water .289 ozs. per sq. inch   |       | Static Pressure 5/8" Water .361 ozs. per sq. inch |       | Static Pressure 3/4" Water .434 ozs. per sq. inch   |       | Static Pressure 7/8" Water .506 ozs. per sq. inch   |       |
| 147    | 1000             | 0.1284           | 1,790   | 0.055 |   |       |   |       |   |       |   |       |   |       |   |       |
| 176    | 1200             | 0.185            | 2,900   | 0.130 |   |       |   |       |   |       |   |       |   |       |   |       |
| 206    | 1400             | 0.252            | 3,880   | 0.215 |   |       |   |       |   |       |   |       |   |       |   |       |
| 235    | 1600             | 0.329            | 4,870   | 0.41  | 3,330   | 0.270 |   |       |   |       |   |       |   |       |   |       |
| 265    | 1800             | 0.412            | 5,800   | 0.62  | 4,500   | 0.475 | 3,630   | 0.37  |   |       |   |       |   |       |   |       |
| 294    | 2000             | 0.514            | 6,660   | 0.87  | 5,600   | 0.73  | 4,680   | 0.59  | 3,580   | 0.435 |   |       |   |       |   |       |
| 324    | 2200             | 0.621            | 7,500   | 1.20  | 6,600   | 1.05  | 5,710   | 0.88  | 4,690   | 0.71  |   |       |   |       |   |       |
| 353    | 2400             | 0.740            | 8,320   | 1.55  | 7,520   | 1.4   | 6,700   | 1.25  | 5,800   | 1.05  | 5,050   | 0.90  |   |       |   |       |
| 382    | 2600             | 0.868            | 9,100   | 2     | 8,450   | 1.9   | 7,620   | 1.70  | 6,760   | 1.45  | 6,100   | 1.30  | 5,500   | 1.15  |   |       |
| 412    | 2800             | 1.01             |   |       | 9,300   | 2.4   | 8,580   | 2.20  | 7,850   | 2.00  | 7,160   | 1.85  | 6,490   | 1.60  | 5,900   | 1.45  |
| 441    | 3000             | 1.16             |   |       | 10,100  | 3.0   | 9,540   | 2.80  | 8,770   | 2.60  | 8,150   | 2.35  | 7,380   | 2.10  | 6,900   | 1.95  |
| 470    | 3200             | 1.32             |   |       | 11,000  | 3.7   | 10,400  | 3.50  | 9,740   | 3.25  | 9,040   | 3.00  | 8,510   | 2.80  | 7,790   | 2.55  |
| 500    | 3400             | 1.49             |   |       | 11,800  | 4.5   | 11,200  | 4.25  | 10,700  | 4.05  | 10,100  | 3.80  | 9,470   | 3.55  | 8,850   | 3.25  |
| 529    | 3600             | 1.67             |   |       | 12,600  | 5.4   | 12,100  | 5.2   | 11,900  | 4.95  | 11,000  | 4.65  | 10,400  | 4.4   | 9,770   | 4.1   |
| 559    | 3800             | 1.86             |   |       |   |       | 12,900  | 6.1   | 12,500  | 5.9   | 11,900  | 5.6   | 11,400  | 5.4   | 10,800  | 5.1   |
| 588    | 4000             | 2.01             |   |       |   |       | 13,800  | 7.2   | 13,300  | 7.0   | 12,800  | 6.7   | 12,300  | 6.5   | 11,800  | 6.1   |
| 618    | 4200             | 2.27             |   |       |   |       | 14,600  | 8.4   | 14,200  | 8.2   | 13,700  | 8.0   | 13,300  | 7.7   | 12,700  | 7.4   |
| 647    | 4400             | 2.49             |   |       |   |       | 15,400  | 9.8   | 15,000  | 9.6   | 14,600  | 9.3   | 14,200  | 9.0   | 13,700  | 8.7   |
| 676    | 4600             | 2.72             |   |       |   |       |   |       | 15,800  | 11.0  | 15,500  | 11.0  | 15,000  | 10.5  | 14,600  | 10.0  |
| 706    | 4800             | 2.96             |   |       |   |       |   |       | 16,700  | 12.5  | 16,300  | 12.5  | 15,900  | 12.0  | 15,500  | 12.0  |
| 735    | 5000             | 3.21             |   |       |   |       |   |       | 17,500  | 14.5  | 17,100  | 14.0  | 16,800  | 13.5  | 16,400  | 13.5  |
| 772    | 5250             | 3.54             |   |       |   |       |   |       | 18,400  | 16.5  | 18,100  | 16.5  | 17,800  | 16.0  | 17,500  | 16.0  |
| 809    | 5500             | 3.89             |   |       |   |       |   |       |   |       | 19,100  | 19    | 18,900  | 19.0  | 18,400  | 18.5  |
| 846    | 5750             | 4.25             |   |       |   |       |   |       |   |       | 20,100  | 22    | 19,900  | 21.5  | 19,500  | 21.0  |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 ozs. per sq. inch     |       | Static Pressure 1 1/4" Water .723 ozs. per sq. inch |       | Static Pressure 1 1/2" Water .878 ozs. per sq. inch |       | Static Pressure 1 3/4" Water 1.01 ozs. per sq. inch |       | Static Pressure 2" Water 1.16 ozs. per sq. inch   |       | Static Pressure 2 1/4" Water 1.48 ozs. per sq. inch |       | Static Pressure 2 1/2" Water 1.73 ozs. per sq. inch |       |
| 441    | 3000             | 1.16             | 6,140   | 1.75  |   |       |   |       |   |       |   |       |   |       |   |       |
| 470    | 3200             | 1.32             | 7,230   | 2.35  | 6,020   | 1.95  |   |       |   |       |   |       |   |       |   |       |
| 500    | 3400             | 1.49             | 8,190   | 3.05  | 7,130   | 2.60  |   |       |   |       |   |       |   |       |   |       |
| 529    | 3600             | 1.67             | 9,170   | 3.80  | 8,010   | 3.35  | 7,260   | 2.95  |   |       |   |       |   |       |   |       |
| 559    | 3800             | 1.86             | 10,200  | 4.75  | 9,170   | 4.25  | 8,490   | 3.85  | 7,230   | 3.3   |   |       |   |       |   |       |
| 588    | 4000             | 2.01             | 11,200  | 5.8   | 10,200  | 5.2   | 9,380   | 4.7   | 8,310   | 4.2   | 7,160   | 3.5   |   |       |   |       |
| 618    | 4200             | 2.27             | 12,200  | 7.1   | 11,200  | 6.4   | 10,400  | 5.8   | 9,440   | 5.2   | 8,290   | 4.6   |   |       |   |       |
| 647    | 4400             | 2.49             | 13,200  | 8.4   | 12,100  | 7.6   | 11,500  | 7.1   | 10,500  | 6.4   | 9,400   | 5.7   |   |       |   |       |
| 676    | 4600             | 2.72             | 14,100  | 9.8   | 13,200  | 9.1   | 12,400  | 8.4   | 11,500  | 7.7   | 10,700  | 7.2   | 8,970   | 6.0   |   |       |
| 706    | 4800             | 2.96             | 15,100  | 11.5  | 14,200  | 10.5  | 13,400  | 10.9  | 12,600  | 9.2   | 11,600  | 8.5   | 10,100  | 7.3   |   |       |
| 735    | 5000             | 3.21             | 16,000  | 13.0  | 15,200  | 12.5  | 14,300  | 11.5  | 13,500  | 11.0  | 12,600  | 10.0  | 11,200  | 8.8   | 9,590   | 7.6   |
| 772    | 5250             | 3.54             | 17,100  | 15.5  | 16,300  | 14.5  | 15,500  | 14.0  | 14,600  | 13.0  | 13,900  | 12.0  | 12,400  | 11.0  | 11,200  | 9.8   |
| 809    | 5500             | 3.89             | 18,200  | 18    | 17,500  | 17.5  | 16,700  | 16.5  | 15,900  | 15.5  | 15,000  | 14.5  | 13,600  | 13.0  | 12,400  | 12.0  |
| 846    | 5750             | 4.25             | 19,300  | 21    | 18,600  | 20.0  | 17,900  | 19.5  | 17,100  | 18.5  | 16,300  | 17.5  | 14,700  | 15.5  | 13,700  | 14.0  |
| 882    | 6000             | 4.62             | 20,300  | 24    | 19,700  | 23.5  | 19,100  | 22.5  | 18,300  | 21.5  | 17,600  | 20.5  | 16,000  | 18.5  | 14,900  | 17.5  |
| 919    | 6250             | 5.01             | 21,400  | 27    | 20,600  | 27    | 20,200  | 26    | 19,500  | 25    | 18,800  | 24    | 17,300  | 22    | 16,200  | 20.0  |
| 955    | 6500             | 5.43             | 22,400  | 31    | 21,900  | 30    | 21,200  | 29    | 20,600  | 29    | 20,000  | 28    | 18,600  | 26    | 17,500  | 23.5  |
| 992    | 6750             | 5.85             | 23,400  | 35    | 22,900  | 34    | 22,300  | 33    | 21,800  | 33    | 21,100  | 32    | 19,800  | 30    | 18,700  | 27    |
| 1030   | 7000             | 6.30             | 24,400  | 39    | 23,900  | 38    | 23,400  | 38    | 22,900  | 37    | 22,300  | 36    | 21,000  | 34    | 19,900  | 32    |
| 1103   | 7500             | 7.22             |   |       | 26,000  | 48    | 25,500  | 47    | 25,000  | 46    | 24,500  | 45    | 23,400  | 43    | 22,300  | 41    |
| 1178   | 8000             | 8.22             |   |       | 28,000  | 58    | 27,600  | 58    | 27,100  | 58    | 26,700  | 58    | 25,700  | 54    | 24,600  | 52    |
| 1250   | 8500             | 9.28             |   |       |   |       | 29,600  | 70    | 29,200  | 70    | 28,800  | 68    | 27,900  | 66    | 27,000  | 64    |
| 1324   | 9000             | 10.40            |   |       |   |       | 31,500  | 84    | 31,200  | 84    | 30,900  | 82    | 30,100  | 80    | 29,200  | 78    |
| 1398   | 9500             | 11.60            |   |       |   |       |   |       | 33,300  | 98    | 32,900  | 98    | 32,100  | 96    | 31,400  | 92    |
| 1470   | 10000            | 12.84            |   |       |   |       |   |       |   |       | 34,900  | 115   | 34,200  | 115   | 33,500  | 110   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 3 1/2" Water 2.02 ozs. per sq. inch |       | Static Pressure 4" Water 2.31 ozs. per sq. inch     |       | Static Pressure 5" Water 2.89 ozs. per sq. inch     |       | Static Pressure 6" Water 3.47 ozs. per sq. inch     |       | Static Pressure 7" Water 4.05 ozs. per sq. inch   |       | Static Pressure 8" Water 4.63 ozs. per sq. inch     |       | Static Pressure 9" Water 5.2 ozs. per sq. inch      |       |
| 809    | 5500             | 3.89             | 10,900  | 10.5  |   |       |   |       |   |       |   |       |   |       |   |       |
| 846    | 5750             | 4.25             | 12,200  | 12.5  | 11,000  | 11.5  |   |       |   |       |   |       |   |       |   |       |
| 882    | 6000             | 4.62             | 13,600  | 15.5  | 12,300  | 12.5  |   |       |   |       |   |       |   |       |   |       |
| 919    | 6250             | 5.01             | 14,900  | 18.5  | 13,600  | 16.5  |   |       |   |       |   |       |   |       |   |       |
| 955    | 6500             | 5.43             | 16,000  | 21.5  | 15,200  | 19.5  | 12,700  | 17.0  |   |       |   |       |   |       |   |       |
| 992    | 6750             | 5.85             | 17,200  | 25    | 16,200  | 23.5  | 14,100  | 20.0  |   |       |   |       |   |       |   |       |
| 1030   | 7000             | 6.30             | 18,500  | 29    | 17,500  | 27    | 15,400  | 23.5  | 13,100  | 20    |   |       |   |       |   |       |
| 1103   | 7500             | 7.22             | 21,000  | 38    | 20,000  | 36    | 17,900  | 32    | 15,800  | 28    | 13,600  | 23.5  |   |       |   |       |
| 1178   | 8000             | 8.22             | 23,500  | 49    | 22,400  | 47    | 20,300  | 41    | 18,400  | 37    | 16,500  | 33    | 14,400  | 28    |   |       |
| 1250   | 8500             | 9.28             | 26,000  | 62    | 24,900  | 58    | 22,800  | 54    | 20,900  | 48    | 19,200  | 44    | 17,400  | 40    | 15,400  | 34    |
| 1324   | 9000             | 10.40            | 28,300  | 74    | 27,300  | 72    | 25,300  | 66    | 23,400  | 60    | 21,700  | 56    | 20,100  | 52    | 18,500  | 47    |
| 1398   | 9500             | 11.60            | 30,600  | 90    | 29,700  | 88    | 27,900  | 82    | 25,900  | 76    | 24,100  | 70    | 22,700  | 64    | 21,200  | 60    |
| 1470   | 10000            | 12.84            | 32,800  | 110   | 32,000  | 105   | 30,300  | 100   | 28,400  | 92    | 26,600  | 86    | 25,100  | 80    | 23,800  | 74    |

Double Inlet

No. 6 $\frac{1}{2}$  Multivane Fan — Design 3

Single Width

When Discharging Air at 65 F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M. Static Pressure $\frac{1}{8}$ " Water .0722 ozs. per sq. inch | H. P.   | Volume C.F.M. Static Pressure $\frac{1}{4}$ " Water .145 ozs. per sq. inch | H. P.   | Volume C.F.M. Static Pressure $\frac{3}{8}$ " Water .217 ozs. per sq. inch | H. P.   | Volume C.F.M. Static Pressure $\frac{1}{2}$ " Water .289 ozs. per sq. inch | H. P.   | Volume C.F.M. Static Pressure $\frac{5}{8}$ " Water .361 ozs. per sq. inch | H. P.   | Volume C.F.M. Static Pressure $\frac{3}{4}$ " Water .434 ozs. per sq. inch | H. P.   | Volume C.F.M. Static Pressure $\frac{7}{8}$ " Water .506 ozs. per sq. inch | H. P.   |
|--------|------------------|------------------|---|---|--|---|--|---|--|---|--|---|--|---|--|---|
| 131    | 1000             | 0 1281           | 2,270   | 0 069   |  |   |  |   |  |   |  |   |  |   |  |   |
| 157    | 1200             | 0 185            | 3,660   | 0 165   |  |   |  |   |  |   |  |   |  |   |  |   |
| 183    | 1400             | 0 252            | 4,910   | 0 31  |  |   |  |   |  |   |  |   |  |   |  |   |
| 209    | 1600             | 0 329            | 6,170   | 0 52  | 4,200  | 0 34  |  |   |  |   |  |   |  |   |  |   |
| 235    | 1800             | 0 412            | 7,340   | 0 78  | 5,800  | 0 60  | 4,590  | 0 47  |  |   |  |   |  |   |  |   |
| 262    | 2000             | 0 511            | 8,440   | 1 10  | 7,080  | 0 92  | 5,910  | 0 74  | 4,530  | 0 55  |  |   |  |   |  |   |
| 288    | 2200             | 0 621            | 9,470   | 1 50  | 8,350  | 1 30  | 7,210  | 1 10  | 5,930  | 0 90  |  |   |  |   |  |   |
| 314    | 2400             | 0 740            | 10,500  | 2 00  | 9,510  | 1 80  | 8,480  | 1 60  | 7,330  | 1 35  | 6,390  | 1 15  |  |   |  |   |
| 340    | 2600             | 0 868            | 11,500  | 2 55  | 10,700   | 2 35  | 9,650  | 2 15  | 8,560  | 1 85  | 7,710  | 1 65  | 6,950  | 1 50  |  |   |
| 366    | 2800             | 1 01             |   |   | 11,800   | 3 05  | 10,900   | 2 80  | 9,950  | 2 55  | 9,060  | 2 35  | 8,190  | 2 00  | 7,450  | 1 85  |
| 392    | 3000             | 1 16             |   |   | 12,800   | 3 80  | 12,100   | 3 55  | 11,100   | 3 25  | 10,300   | 3 0   | 9,340  | 2 65  | 8,730  | 2 45  |
| 418    | 3200             | 1 32             |   |   | 13,900   | 4 65  | 13,200   | 4 4   | 12,300   | 4 1   | 11,400   | 3 8   | 10,800   | 3 55  | 9,850  | 3 2   |
| 444    | 3400             | 1 49             |   |   |  |   | 14,200   | 5 4   | 13,500   | 5 1   | 12,700   | 4 8   | 12,000   | 4 5   | 11,200   | 4 1   |
| 470    | 3600             | 1 67             |   |   | 15,900   | 6 8   | 15,400   | 6 5   | 14,700   | 6 2   | 13,900   | 5 9   | 13,200   | 5 5   | 12,400   | 5 2   |
| 496    | 3800             | 1 86             |   |   |  |   | 16,400   | 7 7   | 15,800   | 7 5   | 15,100   | 7 1   | 14,400   | 6 8   | 13,600   | 6 1   |
| 523    | 4000             | 2 01             |   |   |  |   | 17,400   | 9 1   | 16,800   | 8 8   | 16,200   | 8 5   | 15,600   | 8 2   | 14,900   | 7 8   |
| 549    | 4200             | 2 27             |   |   |  |   | 18,500   | 10 5  | 17,900   | 10 5  | 17,400   | 10 0  | 16,800   | 9 7   | 16,100   | 9 3   |
| 575    | 4400             | 2 49             |   |   |  |   | 19,500   | 12 5  | 19,000   | 12  | 18,500   | 12 0  | 17,900   | 11 5  | 17,300   | 11  |
| 601    | 4600             | 2 72             |   |   |  |   |  |   | 20,000   | 14  | 19,600   | 13 5  | 19,000   | 13 0  | 18,500   | 13  |
| 627    | 4800             | 2 96             |   |   |  |   |  |   | 21,100   | 16  | 20,600   | 15 5  | 20,100   | 15 0  | 19,600   | 15  |
| 654    | 5000             | 3 21             |   |   |  |   |  |   | 22,100   | 18  | 21,600   | 18 0  | 21,200   | 17 5  | 20,700   | 17  |
| 686    | 5250             | 3 54             |   |   |  |   |  |   | 23,300   | 21  | 22,900   | 20 5  | 22,500   | 20 5  | 22,100   | 20  |
| 719    | 5500             | 3 89             |   |   |  |   |  |   |  |   | 21,200   | 24  | 23,800   | 23 5  | 23,300   | 23  |
| 751    | 5750             | 4 25             |   |   |  |   |  |   |  |   | 25,500   | 28  | 25,100   | 27  | 24,600   | 27  |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure $1\frac{1}{8}$ " Water .578 ozs. per sq. inch               | Static Pressure $1\frac{1}{4}$ " Water .723 ozs. per sq. inch | Static Pressure $1\frac{3}{8}$ " Water .878 ozs. per sq. inch              | Static Pressure $1\frac{1}{2}$ " Water 1.01 ozs. per sq. inch | Static Pressure $1\frac{5}{8}$ " Water 1.16 ozs. per sq. inch              | Static Pressure $1\frac{3}{4}$ " Water 1.45 ozs. per sq. inch | Static Pressure $2\frac{1}{8}$ " Water 1.73 ozs. per sq. inch              | Static Pressure $2\frac{1}{4}$ " Water 1.85 ozs. per sq. inch | Static Pressure $2\frac{3}{8}$ " Water 2.00 ozs. per sq. inch              | Static Pressure $2\frac{1}{2}$ " Water 2.15 ozs. per sq. inch | Static Pressure $2\frac{5}{8}$ " Water 2.30 ozs. per sq. inch              | Static Pressure $2\frac{3}{4}$ " Water 2.45 ozs. per sq. inch | Static Pressure $2\frac{7}{8}$ " Water 2.60 ozs. per sq. inch              | Static Pressure $3\frac{1}{8}$ " Water 2.75 ozs. per sq. inch |
| 392    | 3000             | 1 16             | 7,760   | 2 20  |  |   |  |   |  |   |  |   |  |   |  |   |
| 418    | 3200             | 1 32             | 9,150   | 2 95  | 7,610  | 2 45  |  |   |  |   |  |   |  |   |  |   |
| 444    | 3400             | 1 49             | 10,300  | 3 85  | 9,010  | 3 3   |  |   |  |   |  |   |  |   |  |   |
| 470    | 3600             | 1 67             | 11,600  | 4 8   | 10,100   | 4 2   | 9,190  | 3 75  |  |   |  |   |  |   |  |   |
| 496    | 3800             | 1 86             | 12,900  | 6 0   | 11,600   | 5 3   | 10,700   | 4 9   | 9,150  | 4 15  |  |   |  |   |  |   |
| 523    | 4000             | 2 01             | 14,200  | 7 4   | 12,900   | 6 5   | 11,900   | 5 9   | 10,500   | 5 4   | 9,050  | 4 4   |  |   |  |   |
| 549    | 4200             | 2 27             | 15,400  | 8 9   | 14,200   | 8 1   | 13,200   | 7 4   | 11,900   | 6 6   | 10,500   | 5 8   |  |   |  |   |
| 575    | 4400             | 2 49             | 16,700  | 10 5  | 15,400   | 9 6   | 14,500   | 8 9   | 13,200   | 8 1   | 11,900   | 7 3   |  |   |  |   |
| 601    | 4600             | 2 72             | 17,900  | 12 5  | 16,700   | 11 5  | 15,700   | 10 5  | 14,600   | 9 8   | 13,600   | 9 1   | 11,300   | 7 6   |  |   |
| 627    | 4800             | 2 96             | 19,100  | 14 5  | 18,000   | 13 5  | 16,800   | 12 5  | 15,900   | 11 5  | 14,700   | 10 5  | 12,700   | 9 3   |  |   |
| 654    | 5000             | 3 21             | 20,200  | 16 5  | 19,200   | 15 5  | 18,200   | 14 5  | 17,100   | 14 0  | 15,900   | 12 5  | 14,100   | 11 0  | 12,100   | 9 6   |
| 686    | 5250             | 3 54             | 21,600  | 19 5  | 20,700   | 18 5  | 19,600   | 17 5  | 18,700   | 16 5  | 17,500   | 15 5  | 15,700   | 13 5  | 14,200   | 12 5  |
| 719    | 5500             | 3 89             | 23,000  | 23  | 22,100   | 22  | 21,100   | 21 0  | 20,100   | 20 0  | 19,000   | 18 5  | 17,200   | 16 5  | 15,600   | 15  |
| 751    | 5750             | 4 25             | 24,400  | 27  | 23,500   | 26  | 22,600   | 24 5  | 21,600   | 23 5  | 20,700   | 22  | 18,700   | 19 5  | 17,300   | 18  |
| 785    | 6000             | 4 62             | 25,700  | 30  | 24,900   | 29  | 24,100   | 28  | 23,100   | 27  | 22,200   | 26  | 20,300   | 23 5  | 18,900   | 22  |
| 816    | 6250             | 5 01             | 27,000  | 35  | 26,200   | 34  | 25,500   | 33  | 24,600   | 31  | 23,800   | 30  | 21,900   | 28  | 20,500   | 25  |
| 850    | 6500             | 5 43             | 28,300  | 39  | 27,600   | 38  | 26,800   | 37  | 26,100   | 36  | 25,200   | 35  | 23,500   | 32  | 22,100   | 30  |
| 882    | 6750             | 5 85             | 29,600  | 44  | 29,000   | 43  | 28,200   | 42  | 27,500   | 41  | 26,700   | 40  | 25,100   | 37  | 23,600   | 35  |
| 915    | 7000             | 6 30             | 30,800  | 49  | 30,200   | 49  | 29,700   | 48  | 29,000   | 47  | 28,200   | 45  | 26,600   | 43  | 25,200   | 40  |
| 980    | 7500             | 7 22             |   |   | 32,000   | 60  | 32,300   | 60  | 31,600   | 58  | 31,000   | 58  | 29,600   | 54  | 28,200   | 52  |
| 1047   | 8000             | 8 22             |   |   | 35,400   | 74  | 34,900   | 74  | 34,300   | 72  | 33,700   | 70  | 32,500   | 68  | 31,200   | 66  |
| 1111   | 8500             | 9 28             |   |   |  |   | 37,300   | 88  | 36,900   | 88  | 36,400   | 86  | 35,200   | 84  | 34,200   | 80  |
| 1177   | 9000             | 10 40            |   |   |  |   | 39,800   | 105   | 39,500   | 105   | 39,100   | 105   | 38,000   | 100   | 36,900   | 98  |
| 1242   | 9500             | 11 60            |   |   |  |   |  |   | 42,100   | 125   | 41,600   | 125   | 40,600   | 120   | 39,700   | 115   |
| 1308   | 10000            | 12 84            |   |   |  |   |  |   |  |   | 44,100   | 145   | 43,300   | 140   | 42,400   | 140   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure $3\frac{1}{8}$ " Water 2.02 ozs. per sq. inch               | Static Pressure $3\frac{1}{4}$ " Water 2.31 ozs. per sq. inch | Static Pressure $3\frac{3}{8}$ " Water 2.58 ozs. per sq. inch              | Static Pressure $3\frac{1}{2}$ " Water 2.85 ozs. per sq. inch | Static Pressure $3\frac{5}{8}$ " Water 3.12 ozs. per sq. inch              | Static Pressure $3\frac{3}{4}$ " Water 3.47 ozs. per sq. inch | Static Pressure $4\frac{1}{8}$ " Water 3.75 ozs. per sq. inch              | Static Pressure $4\frac{1}{4}$ " Water 4.03 ozs. per sq. inch | Static Pressure $4\frac{3}{8}$ " Water 4.30 ozs. per sq. inch              | Static Pressure $4\frac{1}{2}$ " Water 4.57 ozs. per sq. inch | Static Pressure $4\frac{5}{8}$ " Water 4.84 ozs. per sq. inch              | Static Pressure $4\frac{3}{4}$ " Water 5.11 ozs. per sq. inch | Static Pressure $4\frac{7}{8}$ " Water 5.38 ozs. per sq. inch              | Static Pressure $5\frac{1}{8}$ " Water 5.65 ozs. per sq. inch |
| 719    | 5500             | 3 89             | 13,800  | 13 0  |  |   |  |   |  |   |  |   |  |   |  |   |
| 751    | 5750             | 4 25             | 15,500  | 16 0  | 13,900   | 14 5  |  |   |  |   |  |   |  |   |  |   |
| 785    | 6000             | 4 62             | 17,200  | 19 5  | 15,600   | 16 0  |  |   |  |   |  |   |  |   |  |   |
| 816    | 6250             | 5 01             | 18,800  | 23  | 17,200   | 21 0  |  |   |  |   |  |   |  |   |  |   |
| 850    | 6500             | 5 43             | 20,200  | 27  | 19,200   | 24 5  | 16,100   | 21 5  |  |   |  |   |  |   |  |   |
| 882    | 6750             | 5 85             | 21,800  | 32  | 20,500   | 29  | 17,800   | 26  |  |   |  |   |  |   |  |   |
| 915    | 7000             | 6 30             | 23,400  | 37  | 22,100   | 34  | 19,400   | 30  | 16,600   | 26  |  |   |  |   |  |   |
| 980    | 7500             | 7 22             | 26,000  | 48  | 25,300   | 45  | 22,600   | 40  | 19,900   | 35  | 17,200   | 30  |  |   |  |   |
| 1047   | 8000             | 8 22             | 29,800  | 62  | 28,300   | 58  | 25,700   | 52  | 23,200   | 47  | 20,900   | 42  | 18,200   | 35  |  |   |
| 1111   | 8500             | 9 28             | 32,800  | 78  | 31,500   | 74  | 28,800   | 68  | 26,400   | 60  | 24,200   | 56  | 22,000   | 50  | 19,500   | 43  |
| 1177   | 9000             | 10 40            | 35,800  | 94  | 34,600   | 92  | 32,000   | 84  | 29,600   | 76  | 27,500   | 70  | 25,500   | 66  | 23,400   | 60  |
| 1242   | 9500             | 11 60            | 38,700  | 115   | 37,500   | 110   | 35,300   | 105   | 32,700   | 96  | 30,500   | 88  | 28,700   | 82  | 26,800   | 76  |
| 1308   | 10000            | 12 84            | 41,400  | 135   | 40,400   | 135   | 38,300   | 125   | 36,000   | 115   | 33,700   | 110   | 31,700   | 100   | 30,000   | 94  |

Double Inlet

## No. 7 Multivane Fan — Design 3

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. |
|--------|------------------|------------------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|
|        |                  |                  | Static Pressure 1/2" Water .0722 ozs. per sq. inch  |       | Static Pressure 1/2" Water .145 ozs. per sq. inch   |       | Static Pressure 3/4" Water .217 ozs. per sq. inch   |       | Static Pressure 1 1/2" Water .289 ozs. per sq. inch |       | Static Pressure 1 3/4" Water .361 ozs. per sq. inch |       | Static Pressure 2" Water .434 ozs. per sq. inch     |       | Static Pressure 2 1/2" Water .506 ozs. per sq. inch |       |
| 117    | 1010             | 0 1284           | 2,800   | 0.085 |   |       |   |       |   |       |   |       |   |       |   |       |
| 141    | 1200             | 0 185            | 4,320   | 0.205 |   |       |   |       |   |       |   |       |   |       |   |       |
| 165    | 1400             | 0 252            | 6,060   | 0.385 |   |       |   |       |   |       |   |       |   |       |   |       |
| 188    | 1600             | 0 329            | 7,800   | 0.64  | 5,190   | 0.42  |   |       |   |       |   |       |   |       |   |       |
| 212    | 1800             | 0 412            | 9,050   | 0.96  | 7,160   | 0.74  | 5,660   | 0.58  |   |       |   |       |   |       |   |       |
| 235    | 2000             | 0 514            | 10,400  | 1.35  | 8,730   | 1.15  | 7,300   | 0.92  | 5,500   | 0.68  |   |       |   |       |   |       |
| 259    | 2200             | 0 621            | 11,700  | 1.85  | 10,300  | 1.63  | 8,910   | 1.40  | 7,310   | 1.10  |   |       |   |       |   |       |
| 282    | 2400             | 0 740            | 13,000  | 2.45  | 11,700  | 2.20  | 10,500  | 1.95  | 9,040   | 1.65  | 7,880   | 1.40  |   |       |   |       |
| 306    | 2600             | 0 868            | 14,200  | 3.15  | 13,200  | 2.95  | 11,900  | 2.65  | 10,600  | 2.30  | 9,530   | 2.05  | 8,570   | 1.80  |   |       |
| 329    | 2800             | 1 01             |   |       | 14,500  | 3.75  | 13,400  | 3.45  | 12,300  | 3.10  | 11,200  | 2.85  | 10,100  | 2.50  | 9,200   | 2.25  |
| 353    | 3000             | 1 16             |   |       | 15,800  | 4.7   | 14,900  | 4.4   | 13,700  | 4.05  | 12,700  | 3.7   | 11,500  | 3.30  | 10,800  | 3.05  |
| 376    | 3200             | 1 32             |   |       | 17,200  | 5.8   | 16,200  | 5.5   | 15,200  | 5.1   | 14,100  | 4.7   | 13,300  | 4.35  | 12,200  | 4.0   |
| 400    | 3400             | 1 49             |   |       | 18,400  | 7.0   | 17,500  | 6.6   | 16,700  | 6.3   | 15,700  | 5.9   | 14,800  | 5.5   | 13,800  | 5.1   |
| 424    | 3600             | 1 67             |   |       | 19,700  | 8.4   | 19,000  | 8.1   | 18,000  | 7.7   | 17,200  | 7.3   | 16,200  | 6.8   | 15,300  | 6.4   |
| 447    | 3800             | 1 86             |   |       |   |       | 20,200  | 9.6   | 19,500  | 9.2   | 18,600  | 8.8   | 17,800  | 8.4   | 16,800  | 7.9   |
| 471    | 4000             | 2 01             |   |       |   |       | 21,500  | 11.5  | 20,800  | 11.0  | 20,000  | 10.5  | 19,200  | 10.0  | 18,300  | 9.6   |
| 494    | 4200             | 2 27             |   |       |   |       | 22,800  | 13.0  | 22,200  | 12.5  | 21,400  | 12.0  | 20,700  | 11.5  | 19,900  | 11.0  |
| 517    | 4400             | 2 49             |   |       |   |       | 24,000  | 15.0  | 23,400  | 14.5  | 22,800  | 14.0  | 22,100  | 13.5  | 21,300  | 13.0  |
| 541    | 4600             | 2 72             |   |       |   |       |   |       | 24,700  | 17.0  | 24,100  | 16.5  | 23,400  | 16.0  | 22,600  | 15.5  |
| 565    | 4800             | 2 96             |   |       |   |       |   |       | 26,000  | 19.5  | 25,400  | 19.0  | 24,800  | 18.5  | 24,200  | 18.0  |
| 588    | 5000             | 3 21             |   |       |   |       |   |       | 27,200  | 22.5  | 26,700  | 22.0  | 26,200  | 21.5  | 25,600  | 21.0  |
| 618    | 5250             | 3 51             |   |       |   |       |   |       | 28,700  | 26.0  | 28,300  | 25.5  | 27,800  | 25.0  | 27,300  | 24.5  |
| 647    | 5500             | 3 89             |   |       |   |       |   |       |   |       | 29,900  | 30.0  | 29,400  | 29.5  | 28,900  | 29.0  |
| 676    | 5750             | 4 25             |   |       |   |       |   |       |   |       | 31,400  | 34.0  | 31,000  | 33.5  | 30,600  | 33.0  |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 ozs. per sq. inch     |       | Static Pressure 1 1/4" Water .723 ozs. per sq. inch |       | Static Pressure 1 1/2" Water .878 ozs. per sq. inch |       | Static Pressure 1 3/4" Water 1.01 ozs. per sq. inch |       | Static Pressure 2" Water 1.16 ozs. per sq. inch     |       | Static Pressure 2 1/2" Water 1.45 ozs. per sq. inch |       | Static Pressure 3" Water 1.73 ozs. per sq. inch     |       |
| 353    | 3000             | 1 16             | 9,580   | 2.70  |   |       |   |       |   |       |   |       |   |       |   |       |
| 376    | 3200             | 1 32             | 11,300  | 3.65  | 9,400   | 3.00  |   |       |   |       |   |       |   |       |   |       |
| 400    | 3400             | 1 49             | 12,800  | 4.7   | 11,100  | 4.05  |   |       |   |       |   |       |   |       |   |       |
| 424    | 3600             | 1 67             | 14,300  | 5.9   | 12,500  | 5.2   | 11,300  | 4.6   |   |       |   |       |   |       |   |       |
| 447    | 3800             | 1 86             | 15,900  | 7.4   | 14,300  | 6.6   | 13,200  | 6.0   | 11,300  | 5.1   |   |       |   |       |   |       |
| 471    | 4000             | 2 01             | 17,500  | 9.1   | 15,900  | 8.1   | 14,600  | 7.3   | 13,000  | 6.5   | 11,200  | 5.5   |   |       |   |       |
| 494    | 4200             | 2 27             | 19,100  | 11.0  | 17,500  | 9.9   | 16,200  | 9.1   | 14,700  | 8.2   | 12,900  | 7.2   |   |       |   |       |
| 517    | 4400             | 2 49             | 20,600  | 13.0  | 18,900  | 12.0  | 17,900  | 11.0  | 16,300  | 10.0  | 14,700  | 9.0   |   |       |   |       |
| 541    | 4600             | 2 72             | 22,000  | 15.5  | 20,600  | 14.0  | 19,400  | 13.0  | 18,000  | 12.0  | 16,700  | 11.0  | 14,000  | 9.4   |   |       |
| 565    | 4800             | 2 96             | 23,500  | 18.0  | 22,100  | 16.5  | 20,900  | 15.5  | 19,600  | 14.5  | 18,100  | 13.0  | 15,700  | 11.5  |   |       |
| 588    | 5000             | 3 21             | 25,000  | 20.5  | 23,600  | 19.5  | 22,400  | 18.0  | 21,100  | 17.0  | 19,600  | 15.5  | 17,400  | 13.5  | 15,000  | 12.0  |
| 618    | 5250             | 3 51             | 26,700  | 24.0  | 25,500  | 23.0  | 24,200  | 22.0  | 23,000  | 20.5  | 21,800  | 19.0  | 19,400  | 17.0  | 17,500  | 15.5  |
| 647    | 5500             | 3 89             | 28,500  | 28.0  | 27,200  | 27.0  | 26,100  | 26.0  | 24,800  | 24.5  | 23,400  | 23.0  | 21,200  | 20.5  | 19,300  | 18.5  |
| 676    | 5750             | 4 25             | 30,100  | 33.0  | 29,000  | 31.0  | 27,900  | 30.0  | 26,700  | 29.0  | 25,500  | 27.0  | 23,100  | 24.5  | 21,300  | 22.0  |
| 706    | 6000             | 4 62             | 31,700  | 37.0  | 30,700  | 36.0  | 29,700  | 35.0  | 28,600  | 34.0  | 27,400  | 32.0  | 25,100  | 29.0  | 23,300  | 27.0  |
| 735    | 6250             | 5 01             | 33,400  | 43.0  | 32,400  | 41.0  | 31,500  | 40.0  | 30,400  | 39.0  | 29,400  | 37.0  | 27,000  | 34.0  | 25,200  | 31.0  |
| 765    | 6500             | 5 43             | 34,900  | 48.0  | 34,100  | 47.0  | 33,100  | 46.0  | 32,200  | 45.0  | 31,200  | 43.0  | 29,000  | 40.0  | 27,200  | 36.0  |
| 794    | 6750             | 5 85             | 36,500  | 54.0  | 35,700  | 54.0  | 34,800  | 52.0  | 34,000  | 50.0  | 33,000  | 49.0  | 31,000  | 46.0  | 29,200  | 43.0  |
| 824    | 7000             | 6 30             | 38,000  | 62.0  | 37,300  | 60.0  | 36,600  | 60.0  | 35,700  | 58.0  | 34,800  | 56.0  | 32,900  | 52.0  | 31,100  | 49.0  |
| 882    | 7500             | 7 22             |   |       | 40,600  | 74.0  | 39,800  | 74.0  | 39,000  | 72.0  | 38,200  | 70.0  | 36,000  | 68.0  | 34,800  | 64.0  |
| 941    | 8000             | 8 22             |   |       | 43,600  | 92.0  | 43,000  | 90.0  | 42,400  | 90.0  | 41,600  | 88.0  | 40,100  | 84.0  | 38,400  | 80.0  |
| 1000   | 8500             | 9 28             |   |       |   |       | 46,100  | 110.0 | 45,600  | 110.0 | 44,900  | 105.0 | 43,500  | 105.0 | 42,100  | 100.0 |
| 1059   | 9000             | 10 40            |   |       |   |       | 49,200  | 130.0 | 48,700  | 130.0 | 48,200  | 130.0 | 46,900  | 125.0 | 45,600  | 120.0 |
| 1118   | 9500             | 11 60            |   |       |   |       |   |       | 52,000  | 155.0 | 51,400  | 150.0 | 50,100  | 150.0 | 49,000  | 145.0 |
| 1177   | 10000            | 12 84            |   |       |   |       |   |       |   |       | 55,000  | 180.0 | 53,500  | 175.0 | 52,400  | 170.0 |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 3 1/2" Water 2.02 ozs. per sq. inch |       | Static Pressure 4" Water 2.31 ozs. per sq. inch     |       | Static Pressure 4 1/2" Water 2.89 ozs. per sq. inch |       | Static Pressure 5" Water 3.47 ozs. per sq. inch     |       | Static Pressure 5 1/2" Water 4.05 ozs. per sq. inch |       | Static Pressure 6" Water 4.63 ozs. per sq. inch     |       | Static Pressure 6 1/2" Water 5.2 ozs. per sq. inch  |       |
| 647    | 5500             | 3 89             | 17,100  | 16.5  |   |       |   |       |   |       |   |       |   |       |   |       |
| 676    | 5750             | 4 25             | 19,100  | 19.5  | 17,100  | 18.0  |   |       |   |       |   |       |   |       |   |       |
| 706    | 6000             | 4 62             | 21,200  | 24.0  |   |       |   |       |   |       |   |       |   |       |   |       |
| 735    | 6250             | 5 01             | 23,200  | 28.0  | 21,300  | 26.0  |   |       |   |       |   |       |   |       |   |       |
| 765    | 6500             | 5 43             | 25,000  | 34.0  | 23,600  | 30.0  | 19,900  | 27.0  |   |       |   |       |   |       |   |       |
| 794    | 6750             | 5 85             | 26,900  | 39.0  | 25,800  | 36.0  | 22,000  | 32.0  |   |       |   |       |   |       |   |       |
| 824    | 7000             | 6 30             | 28,800  | 45.0  | 27,300  | 42.0  | 23,900  | 37.0  | 20,500  | 31.0  |   |       |   |       |   |       |
| 882    | 7500             | 7 22             | 32,800  | 60.0  | 31,200  | 56.0  | 27,900  | 50.0  | 24,600  | 43.0  | 21,300  | 37.0  |   |       |   |       |
| 941    | 8000             | 8 22             | 36,700  | 76.0  | 34,900  | 72.0  | 31,700  | 64.0  | 28,700  | 58.0  | 25,800  | 52.0  | 22,400  | 44.0  |   |       |
| 1000   | 8500             | 9 28             | 40,500  | 96.0  | 38,900  | 92.0  | 35,500  | 82.0  | 32,600  | 74.0  | 29,900  | 68.0  | 27,200  | 62.0  | 24,100  | 54.0  |
| 1059   | 9000             | 10 40            | 44,100  | 115.0 | 42,600  | 115.0 | 39,500  | 105.0 | 36,500  | 94.0  | 33,900  | 88.0  | 31,400  | 80.0  | 28,900  | 74.0  |
| 1118   | 9500             | 11 60            | 47,800  | 140.0 | 46,400  | 140.0 | 43,500  | 130.0 | 40,400  | 120.0 | 37,700  | 110.0 | 35,500  | 100.0 | 33,100  | 94.0  |
| 1177   | 10000            | 12 84            | 51,100  | 170.0 | 49,900  | 165.0 | 47,300  | 155.0 | 44,400  | 145.0 | 41,600  | 135.0 | 39,200  | 125.0 | 37,100  | 115.0 |

Double Inlet

## No. 8 Multivane Fan — Design 3

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.                                       | H. P.   | Volume C.F.M.                                       | H. P.   | Volume C.F.M.                                     | H. P.   | Volume C.F.M.                                       | H. P. | Volume C.F.M. | H. P. | Volume C.F.M. | H. P. | Volume C.F.M. | H. P. |
|--------|------------------|------------------|---|---|---|---|---|---|---|-------|---------------|-------|---------------|-------|---------------|-------|
|        |                  |                  | Static Pressure 1/2" Water .0722 ozs. per sq. inch  | Static Pressure 1/2" Water .145 ozs. per sq. inch   | Static Pressure 3/4" Water .217 ozs. per sq. inch   | Static Pressure 1" Water .289 ozs. per sq. inch     | Static Pressure 5/8" Water .361 ozs. per sq. inch | Static Pressure 3/4" Water .434 ozs. per sq. inch   | Static Pressure 7/8" Water .506 ozs. per sq. inch   |       |               |       |               |       |               |       |
| 93     | 1000             | 0 1281           | 4,030   | 0 125   |   |   |   |   |   |       |               |       |               |       |               |       |
| 118    | 1200             | 0 185            | 6,500   | 0 295   |   |   |   |   |   |       |               |       |               |       |               |       |
| 137    | 1400             | 0 252            | 8,740   | 0 55  |   |   |   |   |   |       |               |       |               |       |               |       |
| 157    | 1600             | 0 329            | 10,900  | 0 92  | 7,480   | 0 60  |   |   |   |       |               |       |               |       |               |       |
| 177    | 1800             | 0 412            | 13,000  | 1 40  | 10,300  | 1 05  | 8,150   | 0 83  |   |       |               |       |               |       |               |       |
| 196    | 2000             | 0 514            | 15,000  | 1 95  | 12,600  | 1 65  | 10,500  | 1 30  | 8,050   | 0 98  |               |       |               |       |               |       |
| 216    | 2200             | 0 621            | 16,900  | 2 65  | 14,800  | 2 35  | 12,800  | 2 00  | 10,500  | 1 6   |               |       |               |       |               |       |
| 235    | 2400             | 0 740            | 18,700  | 3 55  | 16,900  | 3 2   | 15,100  | 2 80  | 13,000  | 2 4   | 11,400        | 2 05  |               |       |               |       |
| 255    | 2600             | 0 868            | 20,500  | 4 55  | 19,000  | 4 2   | 17,100  | 3 80  | 15,200  | 3 3   | 13,700        | 2 90  | 12,400        | 2 65  |               |       |
| 275    | 2800             | 1 01             |   |   | 20,900  | 5 4   | 19,300  | 4 95  | 17,700  | 4 5   | 16,100        | 4 15  | 14,600        | 3 60  | 13,300        | 3 25  |
| 294    | 3000             | 1 16             |   |   | 22,800  | 6 8   | 21,400  | 6 3   | 19,700  | 5 8   | 18,300        | 5 3   | 16,600        | 4 75  | 15,500        | 4 4   |
| 314    | 3200             | 1 32             |   |   | 24,700  | 8 3   | 23,400  | 7 8   | 21,900  | 7 3   | 20,300        | 6 8   | 19,200        | 6 3   | 17,500        | 5 7   |
| 333    | 3400             | 1 49             |   |   | 26,600  | 10  | 25,200  | 9 6   | 24,000  | 9 1   | 22,600        | 8 6   | 21,300        | 8 0   | 19,900        | 7 3   |
| 353    | 3600             | 1 67             |   |   | 28,400  | 12  | 27,300  | 11 5  | 26,100  | 11 0  | 24,800        | 10 5  | 23,400        | 9 9   | 22,000        | 9 2   |
| 373    | 3800             | 1 86             |   |   |   |   | 29,100  | 14 0  | 28,100  | 13 5  | 26,900        | 12 5  | 25,600        | 12 0  | 24,200        | 11 5  |
| 392    | 4000             | 2 01             |   |   |   |   | 31,000  | 16 5  | 30,000  | 15 5  | 28,900        | 15    | 27,700        | 14 5  | 26,400        | 14 0  |
| 412    | 4200             | 2 27             |   |   |   |   | 32,800  | 19  | 31,900  | 18 5  | 30,900        | 18    | 29,800        | 17 0  | 28,600        | 16 5  |
| 431    | 4400             | 2 49             |   |   |   |   | 34,600  | 22  | 33,800  | 21 5  | 32,900        | 21    | 31,900        | 20 5  | 30,700        | 19 5  |
| 451    | 4600             | 2 72             |   |   |   |   |   |   | 35,500  | 24 5  | 34,800        | 24    | 33,800        | 23 5  | 32,800        | 23    |
| 471    | 4800             | 2 96             |   |   |   |   |   |   | 37,500  | 28    | 36,600        | 28    | 35,800        | 27    | 34,900        | 26    |
| 490    | 5000             | 3 21             |   |   |   |   |   |   | 39,200  | 32    | 38,500        | 32    | 37,700        | 31    | 36,800        | 30    |
| 515    | 5250             | 3 54             |   |   |   |   |   |   | 41,400  | 37    | 40,700        | 37    | 40,000        | 36    | 39,200        | 36    |
| 540    | 5500             | 3 89             |   |   |   |   |   |   |   |       | 43,000        | 43    | 42,400        | 42    | 41,500        | 41    |
| 564    | 5750             | 4 25             |   |   |   |   |   |   |   |       | 45,300        | 49    | 44,700        | 49    | 43,800        | 48    |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .078 ozs. per sq. inch     | Static Pressure 1 1/4" Water .123 ozs. per sq. inch | Static Pressure 1 1/2" Water .178 ozs. per sq. inch | Static Pressure 1 3/4" Water 1.01 ozs. per sq. inch | Static Pressure 2" Water 1.16 ozs. per sq. inch   | Static Pressure 2 1/4" Water 1.45 ozs. per sq. inch | Static Pressure 2 1/2" Water 1.73 ozs. per sq. inch |       |               |       |               |       |               |       |
| 294    | 3000             | 1 16             | 13,800  | 3 9   |   |   |   |   |   |       |               |       |               |       |               |       |
| 314    | 3200             | 1 32             | 16,300  | 5 2   | 13,500  | 4 35  |   |   |   |       |               |       |               |       |               |       |
| 333    | 3400             | 1 49             | 18,400  | 6 8   | 16,000  | 5 8   |   |   |   |       |               |       |               |       |               |       |
| 353    | 3600             | 1 67             | 20,600  | 8 5   | 18,000  | 7 5   | 16,300  | 6 7   |   |       |               |       |               |       |               |       |
| 373    | 3800             | 1 86             | 22,900  | 10 5  | 20,600  | 9 5   | 19,100  | 8 7   | 16,300  | 7 4   |               |       |               |       |               |       |
| 392    | 4000             | 2 01             | 25,200  | 13  | 22,800  | 11 5  | 21,100  | 10 5  | 18,700  | 9 4   | 16,100        | 7 9   |               |       |               |       |
| 412    | 4200             | 2 27             | 27,500  | 16  | 25,200  | 14 5  | 23,400  | 13 0  | 21,200  | 12 0  | 18,600        | 10 5  |               |       |               |       |
| 431    | 4400             | 2 49             | 29,700  | 19  | 27,300  | 17 0  | 25,800  | 16 0  | 23,500  | 14 5  | 21,200        | 13 0  |               |       |               |       |
| 451    | 4600             | 2 72             | 31,800  | 22  | 29,700  | 20 5  | 27,900  | 19 0  | 25,900  | 17 5  | 24,100        | 16 0  | 20,200        | 13 5  |               |       |
| 471    | 4800             | 2 96             | 33,800  | 26  | 31,900  | 24  | 30,100  | 22 5  | 28,200  | 20 5  | 26,100        | 19 0  | 22,600        | 16 5  |               |       |
| 490    | 5000             | 3 21             | 36,000  | 29  | 34,000  | 28  | 32,300  | 26  | 30,400  | 24 5  | 28,200        | 22 5  | 25,100        | 19 5  | 21,000        | 17    |
| 515    | 5250             | 3 54             | 38,500  | 35  | 36,700  | 33  | 34,900  | 31  | 33,200  | 30    | 31,200        | 28    | 28,000        | 24    | 25,200        | 22    |
| 540    | 5500             | 3 89             | 41,000  | 41  | 39,200  | 39  | 37,600  | 37  | 35,800  | 35    | 33,800        | 33    | 30,500        | 29    | 27,800        | 26    |
| 564    | 5750             | 4 25             | 43,900  | 47  | 41,800  | 45  | 40,100  | 44  | 38,400  | 42    | 36,700        | 40    | 33,300        | 35    | 30,700        | 32    |
| 589    | 6000             | 4 62             | 46,900  | 54  | 44,200  | 52  | 42,900  | 50  | 41,200  | 49    | 39,500        | 47    | 36,100        | 42    | 33,600        | 39    |
| 613    | 6250             | 5 01             | 49,100  | 62  | 46,000  | 60  | 45,400  | 58  | 43,800  | 56    | 42,300        | 54    | 38,900        | 49    | 36,400        | 45    |
| 637    | 6500             | 5 43             | 50,300  | 70  | 49,100  | 68  | 47,900  | 66  | 46,400  | 64    | 44,900        | 62    | 41,800        | 58    | 39,300        | 52    |
| 662    | 6750             | 5 85             | 52,600  | 78  | 51,500  | 76  | 50,200  | 74  | 49,000  | 74    | 47,500        | 72    | 44,600        | 66    | 42,000        | 62    |
| 686    | 7000             | 6 30             | 54,900  | 88  | 53,800  | 86  | 52,600  | 84  | 51,400  | 82    | 50,100        | 80    | 47,400        | 76    | 44,800        | 72    |
| 735    | 7500             | 7 22             |   |   | 58,500  | 110   | 57,400  | 105   | 56,200  | 105   | 55,000        | 100   | 52,700        | 98    | 50,100        | 92    |
| 785    | 8000             | 8 22             |   |   | 62,900  | 130   | 62,000  | 130   | 61,000  | 130   | 60,000        | 125   | 57,800        | 120   | 55,400        | 115   |
| 834    | 8500             | 9 28             |   |   |   |   | 66,500  | 155   | 65,800  | 155   | 64,700        | 155   | 62,700        | 150   | 60,600        | 145   |
| 882    | 9000             | 10 40            |   |   |   |   | 70,900  | 180   |   |       | 69,500        | 185   | 67,600        | 180   | 65,600        | 175   |
| 931    | 9500             | 11 60            |   |   |   |   |   |   | 75,000  | 220   | 74,000        | 220   | 72,300        | 215   | 70,600        | 210   |
| 980    | 10000            | 12 84            |   |   |   |   |   |   |   |       | 78,500        | 260   | 77,000        | 255   | 75,500        | 245   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 3 1/2" Water 2.02 ozs. per sq. inch | Static Pressure 4" Water 2.31 ozs. per sq. inch     | Static Pressure 5" Water 2.89 ozs. per sq. inch     | Static Pressure 6" Water 3.47 ozs. per sq. inch     | Static Pressure 7" Water 4.05 ozs. per sq. inch   | Static Pressure 8" Water 4.63 ozs. per sq. inch     | Static Pressure 9" Water 5.2 ozs. per sq. inch      |       |               |       |               |       |               |       |
| 540    | 5500             | 3 89             | 24,000  | 23 5  |   |   |   |   |   |       |               |       |               |       |               |       |
| 564    | 5750             | 4 25             | 27,500  | 28  | 24,700  | 26  |   |   |   |       |               |       |               |       |               |       |
| 589    | 6000             | 4 62             | 30,500  | 35  | 27,700  | 29  |   |   |   |       |               |       |               |       |               |       |
| 613    | 6250             | 5 01             | 33,400  | 41  | 30,600  | 38  |   |   |   |       |               |       |               |       |               |       |
| 637    | 6500             | 5 43             | 36,000  | 48  | 33,300  | 44  | 28,700  | 38  |   |       |               |       |               |       |               |       |
| 662    | 6750             | 5 85             | 38,800  | 56  | 36,500  | 52  | 31,600  | 45  |   |       |               |       |               |       |               |       |
| 686    | 7000             | 6 30             | 41,600  | 66  | 39,300  | 62  | 34,500  | 54  | 29,500  | 45    |               |       |               |       |               |       |
| 735    | 7500             | 7 22             | 47,200  | 86  | 45,000  | 80  | 40,100  | 72  | 35,400  | 62    | 30,600        | 52    |               |       |               |       |
| 785    | 8000             | 8 22             | 52,300  | 110   | 50,300  | 105   | 45,600  | 92  | 41,400  | 84    | 37,100        | 74    | 32,300        | 62    |               |       |
| 834    | 8500             | 9 28             | 58,500  | 140   | 56,000  | 130   | 51,200  | 120   | 47,000  | 110   | 43,100        | 98    | 39,200        | 90    | 34,700        | 78    |
| 882    | 9000             | 10 40            | 63,600  | 170   | 61,500  | 165   | 56,900  | 150   | 52,600  | 135   | 48,900        | 125   | 45,300        | 115   | 41,600        | 105   |
| 931    | 9500             | 11 60            | 68,900  | 205   | 66,800  | 200   | 62,700  | 185   | 58,300  | 170   | 54,300        | 155   | 51,100        | 145   | 47,700        | 135   |
| 980    | 10000            | 12 84            | 73,600  | 240   | 71,900  | 235   | 68,100  | 225   | 64,000  | 210   | 59,900        | 195   | 56,400        | 180   | 53,400        | 170   |

Double Inlet

## No. 9 Multivane Fan — Design 3

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                   | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. |
|--------|------------------|------------------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|
|        |                  |                  | Static Pressure 1" Water .0722 ozs. per sq. inch    |       | Static Pressure 1 1/4" Water .145 ozs. per sq. inch |       | Static Pressure 1 1/2" Water .217 ozs. per sq. inch |       | Static Pressure 1 3/4" Water .289 ozs. per sq. inch |       | Static Pressure 2" Water .361 ozs. per sq. inch |       | Static Pressure 2 1/4" Water .434 ozs. per sq. inch |       | Static Pressure 2 1/2" Water .506 ozs. per sq. inch |       |
| 84     | 1000             | 0 128 1          | 5,180   | 0 165 |   |       |   |       |   |       |   |       |   |       |   |       |
| 101    | 1200             | 0 185            | 8,860   | 0 405 |   |       |   |       |   |       |   |       |   |       |   |       |
| 118    | 1400             | 0 252            | 11,900  | 0 75  |   |       |   |       |   |       |   |       |   |       |   |       |
| 134    | 1600             | 0 329            | 14,900  | 1 25  | 10,200  | 0 82  |   |       |   |       |   |       |   |       |   |       |
| 151    | 1800             | 0 412            | 17,800  | 1 90  | 11,000  | 1 45  | 11,100  | 1 15  |   |       |   |       |   |       |   |       |
| 168    | 2000             | 0 511            | 20,400  | 2 70  | 17,100  | 2 20  | 14,300  | 1 8   | 11,000  | 1 35  |   |       |   |       |   |       |
| 185    | 2200             | 0 621            | 22,900  | 3 65  | 20,200  | 3 20  | 17,500  | 2 7   | 14,300  | 2 20  |   |       |   |       |   |       |
| 202    | 2400             | 0 710            | 25,500  | 4 8   | 23,000  | 4 35  | 20,500  | 3 8   | 17,700  | 3 25  | 15,500  | 2 75  |   |       |   |       |
| 219    | 2600             | 0 808            | 27,900  | 6 2   | 25,900  | 5 7   | 23,300  | 5 1   | 20,700  | 4 45  | 18,700  | 4 0   | 16,800  | 3 55  |   |       |
| 235    | 2800             | 1 01             |   |       | 28,500  | 7 3   | 26,300  | 6 7   | 24,000  | 6 1   | 21,900  | 5 6   | 19,800  | 4 9   | 18,000  | 4 45  |
| 252    | 3000             | 1 16             |   |       | 31,000  | 9 2   | 29,200  | 8 6   | 26,900  | 7 9   | 25,000  | 7 2   | 22,600  | 6 5   | 21,100  | 6 0   |
| 269    | 3200             | 1 32             |   |       | 33,600  | 11 5  | 31,800  | 10 5  | 29,800  | 10 0  | 27,700  | 9 2   | 26,100  | 8 6   | 23,800  | 7 8   |
| 286    | 3400             | 1 49             |   |       | 36,200  | 13 5  | 34,300  | 13 0  | 32,700  | 12 5  | 30,800  | 11 5  | 29,000  | 11 0  | 27,100  | 10 0  |
| 303    | 3600             | 1 67             |   |       | 38,600  | 16 5  | 37,200  | 16 0  | 35,600  | 15 0  | 33,700  | 14 5  | 31,800  | 13 5  | 29,900  | 12 5  |
| 319    | 3800             | 1 86             |   |       |   |       | 39,600  | 18 5  | 38,200  | 18 0  | 36,600  | 17 5  | 34,800  | 16 5  | 32,900  | 15 5  |
| 336    | 4000             | 2 01             |   |       |   |       | 42,100  | 22    | 40,700  | 21 5  | 39,300  | 20 5  | 37,700  | 20 0  | 36,000  | 19 0  |
| 353    | 4200             | 2 27             |   |       |   |       | 44,600  | 26    | 43,400  | 25    | 42,000  | 24 5  | 40,600  | 23 5  | 39,000  | 22 5  |
| 370    | 4400             | 2 49             |   |       |   |       | 47,100  | 30    | 46,000  | 29    | 44,700  | 28    | 43,400  | 28    | 41,800  | 27    |
| 387    | 4600             | 2 72             |   |       |   |       |   |       | 48,400  | 34    | 47,400  | 33    | 46,000  | 32    | 44,600  | 31    |
| 404    | 4800             | 2 96             |   |       |   |       |   |       | 51,000  | 39    | 49,800  | 38    | 48,700  | 37    | 47,500  | 36    |
| 420    | 5000             | 3 21             |   |       |   |       |   |       | 53,400  | 44    | 52,400  | 43    | 51,400  | 42    | 50,100  | 41    |
| 441    | 5250             | 3 54             |   |       |   |       |   |       | 56,300  | 50    | 55,400  | 50    | 54,500  | 49    | 53,400  | 48    |
| 462    | 5500             | 3 89             |   |       |   |       |   |       |   |       | 58,600  | 58    | 57,600  | 58    | 56,400  | 56    |
| 483    | 5750             | 4 25             |   |       |   |       |   |       |   |       | 61,600  | 66    | 60,800  | 66    | 59,500  | 64    |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .078 ozs. per sq. inch     |       | Static Pressure 1 1/4" Water .173 ozs. per sq. inch |       | Static Pressure 1 1/2" Water .278 ozs. per sq. inch |       | Static Pressure 1 3/4" Water 1.01 ozs. per sq. inch |       | Static Pressure 2" Water 1.16 ozs. per sq. inch |       | Static Pressure 2 1/4" Water 1.45 ozs. per sq. inch |       | Static Pressure 2 1/2" Water 1.73 ozs. per sq. inch |       |
| 252    | 3000             | 1 16             | 18,800  | 5 3   |   |       |   |       |   |       |   |       |   |       |   |       |
| 269    | 3200             | 1 32             | 22,100  | 7 1   | 18,400  | 5 9   |   |       |   |       |   |       |   |       |   |       |
| 286    | 3400             | 1 49             | 25,000  | 9 3   | 21,800  | 7 9   |   |       |   |       |   |       |   |       |   |       |
| 303    | 3600             | 1 67             | 28,100  | 11 5  | 24,600  | 10 0  | 22,200  | 9 1   |   |       |   |       |   |       |   |       |
| 319    | 3800             | 1 86             | 31,100  | 14 5  | 28,100  | 13 0  | 26,000  | 12 0  | 22,100  | 10 0  |   |       |   |       |   |       |
| 336    | 4000             | 2 01             | 34,200  | 18 0  | 31,100  | 16 0  | 28,700  | 14 5  | 25,600  | 13 0  | 21,900  | 10 5  |   |       |   |       |
| 353    | 4200             | 2 27             | 37,400  | 21 5  | 34,300  | 19 5  | 31,800  | 18 0  | 28,900  | 16 0  | 25,400  | 14 0  |   |       |   |       |
| 370    | 4400             | 2 49             | 40,400  | 26    | 37,200  | 23 5  | 35,000  | 21 5  | 32,000  | 19 5  | 28,800  | 17 5  |   |       |   |       |
| 387    | 4600             | 2 72             | 43,200  | 30    | 40,400  | 28    | 38,000  | 26    | 35,200  | 23 5  | 32,800  | 22    | 27,500  | 18 5  |   |       |
| 404    | 4800             | 2 96             | 46,100  | 35    | 43,400  | 33    | 40,900  | 30    | 38,400  | 28    | 35,400  | 26    | 30,800  | 22 5  |   |       |
| 420    | 5000             | 3 21             | 49,000  | 40    | 46,400  | 38    | 44,000  | 36    | 41,400  | 33    | 38,400  | 31    | 34,100  | 27    | 29,400  | 23    |
| 441    | 5250             | 3 54             | 52,400  | 47    | 50,000  | 45    | 47,500  | 43    | 45,100  | 40    | 42,400  | 38    | 38,100  | 33    | 34,300  | 30    |
| 462    | 5500             | 3 89             | 55,800  | 56    | 53,400  | 54    | 51,100  | 50    | 48,700  | 48    | 46,000  | 45    | 41,500  | 40    | 37,900  | 36    |
| 483    | 5750             | 4 25             | 59,000  | 64    | 56,900  | 62    | 54,600  | 60    | 52,300  | 56    | 50,000  | 54    | 45,400  | 48    | 41,800  | 44    |
| 505    | 6000             | 4 62             | 62,100  | 74    | 60,200  | 72    | 58,300  | 68    | 56,000  | 66    | 53,800  | 64    | 49,100  | 56    | 45,700  | 54    |
| 525    | 6250             | 5 01             | 65,100  | 84    | 63,500  | 82    | 61,700  | 78    | 59,600  | 76    | 57,800  | 74    | 52,900  | 66    | 49,500  | 62    |
| 546    | 6500             | 5 43             | 68,500  | 94    | 66,900  | 92    | 64,900  | 90    | 63,100  | 88    | 61,100  | 84    | 57,000  | 78    | 53,400  | 72    |
| 567    | 6750             | 5 85             | 71,600  | 105   | 70,000  | 105   | 68,300  | 100   | 66,600  | 100   | 64,600  | 96    | 60,700  | 90    | 57,200  | 84    |
| 589    | 7000             | 6 30             | 74,600  | 120   | 73,200  | 120   | 71,700  | 115   | 70,000  | 115   | 68,200  | 110   | 64,400  | 105   | 61,000  | 98    |
| 631    | 7500             | 7 22             |   |       | 79,600  | 145   | 78,000  | 145   | 76,500  | 140   | 74,900  | 140   | 71,700  | 135   | 68,200  | 125   |
| 672    | 8000             | 8 22             |   |       | 85,500  | 180   | 84,300  | 175   | 83,000  | 175   | 81,600  | 170   | 78,600  | 165   | 75,400  | 160   |
| 715    | 8500             | 9 28             |   |       |   |       | 90,400  | 215   | 89,400  | 210   | 88,000  | 210   | 85,400  | 205   | 82,600  | 195   |
| 756    | 9000             | 10 40            |   |       |   |       | 96,400  | 255   | 95,600  | 255   | 94,600  | 250   | 92,000  | 245   | 89,400  | 240   |
| 799    | 9500             | 11 60            |   |       |   |       |   |       | 102,000   | 300   | 101,000   | 300   | 98,400  | 290   | 96,100  | 285   |
| 840    | 10000            | 12 84            |   |       |   |       |   |       |   |       | 107,000   | 350   | 105,000   | 345   | 103,000   | 335   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 3 1/2" Water 2.02 ozs. per sq. inch |       | Static Pressure 4" Water 2.31 ozs. per sq. inch     |       | Static Pressure 5" Water 2.89 ozs. per sq. inch     |       | Static Pressure 6" Water 3.47 ozs. per sq. inch     |       | Static Pressure 7" Water 4.05 ozs. per sq. inch |       | Static Pressure 8" Water 4.63 ozs. per sq. inch     |       | Static Pressure 9" Water 5.2 ozs. per sq. inch      |       |
| 462    | 5500             | 3 89             | 33,400  | 32    |   |       |   |       |   |       |   |       |   |       |   |       |
| 483    | 5750             | 4 25             | 37,500  | 38    | 33,500  | 35    |   |       |   |       |   |       |   |       |   |       |
| 505    | 6000             | 4 62             | 41,500  | 47    | 37,700  | 39    |   |       |   |       |   |       |   |       |   |       |
| 525    | 6250             | 5 01             | 45,500  | 56    | 41,700  | 52    |   |       |   |       |   |       |   |       |   |       |
| 546    | 6500             | 5 43             | 49,000  | 66    | 46,400  | 60    | 39,000  | 52    |   |       |   |       |   |       |   |       |
| 567    | 6750             | 5 85             | 52,700  | 76    | 49,600  | 72    | 43,000  | 62    |   |       |   |       |   |       |   |       |
| 589    | 7000             | 6 30             | 56,600  | 90    | 53,500  | 84    | 47,000  | 72    | 40,100  | 62    |   |       |   |       |   |       |
| 631    | 7500             | 7 22             | 64,200  | 115   | 61,200  | 110   | 54,600  | 98    | 48,200  | 86    | 41,700  | 72    |   |       |   |       |
| 672    | 8000             | 8 22             | 72,000  | 150   | 68,500  | 140   | 62,100  | 125   | 56,300  | 115   | 50,500  | 100   | 43,900  | 86    |   |       |
| 715    | 8500             | 9 28             | 79,500  | 190   | 76,300  | 180   | 69,700  | 160   | 63,900  | 145   | 58,600  | 135   | 53,300  | 120   | 47,200  | 105   |
| 756    | 9000             | 10 40            | 86,600  | 230   | 83,600  | 220   | 77,400  | 205   | 71,600  | 185   | 66,500  | 170   | 61,600  | 160   | 56,500  | 145   |
| 799    | 9500             | 11 60            | 93,700  | 275   | 90,900  | 270   | 85,300  | 250   | 79,300  | 230   | 73,800  | 215   | 69,500  | 200   | 64,900  | 185   |
| 840    | 10000            | 12 84            | 100,000   | 330   | 97,900  | 320   | 92,700  | 305   | 87,100  | 285   | 81,500  | 265   | 76,800  | 245   | 72,700  | 230   |

Double Inlet

## No. 10 Multivane Fan — Design 3

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                   | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                   | H. P. |
|--------|------------------|------------------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|
|        |                  |                  | Static Pressure 1/2" Water .0722 oza. per sq. inch  |       | Static Pressure 1 1/4" Water .145 oza. per sq. inch |       | Static Pressure 1 1/2" Water .217 oza. per sq. inch |       | Static Pressure 1 3/4" Water .289 oza. per sq. inch |       | Static Pressure 2" Water .361 oza. per sq. inch |       | Static Pressure 2 1/2" Water .434 oza. per sq. inch |       | Static Pressure 3" Water .506 oza. per sq. inch |       |
| 73     | 1000             | 0 128 1          | 7,160   | 0 22  |   |       |   |       |   |       |   |       |   |       |   |       |
| 88     | 1200             | 0 185            | 11,600  | 0 53  |   |       |   |       |   |       |   |       |   |       |   |       |
| 103    | 1400             | 0 252            | 15,500  | 0 99  |   |       |   |       |   |       |   |       |   |       |   |       |
| 118    | 1600             | 0 329            | 19,500  | 1 65  | 13,300  | 1 05  |   |       |   |       |   |       |   |       |   |       |
| 132    | 1800             | 0 412            | 23,200  | 2 45  | 18,300  | 1 90  | 14,500  | 1 50  |   |       |   |       |   |       |   |       |
| 147    | 2000             | 0 511            | 26,700  | 3 50  | 22,400  | 2 90  | 18,700  | 2 35  | 14,300  | 1 75  |   |       |   |       |   |       |
| 162    | 2200             | 0 621            | 30,000  | 4 75  | 26,400  | 4 15  | 22,800  | 3 5   | 18,700  | 2 85  |   |       |   |       |   |       |
| 176    | 2400             | 0 740            | 33,300  | 6 3   | 30,100  | 5 7   | 26,800  | 5 0   | 23,200  | 4 2   | 20,200  | 3 6   |   |       |   |       |
| 191    | 2600             | 0 868            | 36,100  | 8 1   | 33,800  | 7 5   | 30,500  | 6 7   | 27,000  | 5 8   | 24,400  | 5 2   | 22,000  | 4 65  |   |       |
| 206    | 2800             | 1 01             |   |       | 37,200  | 9 6   | 34,300  | 8 8   | 31,400  | 8 0   | 28,600  | 7 4   | 25,900  | 6 41  | 23,600  | 5 8   |
| 221    | 3000             | 1 16             |   |       | 40,500  | 12 0  | 38,100  | 11 5  | 35,100  | 10 5  | 32,600  | 9 5   | 29,500  | 8 4   | 27,600  | 7 8   |
| 235    | 3200             | 1 32             |   |       | 44,000  | 15 0  | 41,500  | 14 0  | 38,900  | 13 0  | 36,200  | 12 0  | 34,000  | 11 0  | 31,100  | 10 5  |
| 250    | 3400             | 1 49             |   |       | 47,200  | 18 0  | 44,900  | 17 0  | 42,700  | 16 0  | 40,200  | 15 0  | 37,900  | 14 0  | 35,400  | 13 0  |
| 265    | 3600             | 1 67             |   |       | 50,400  | 21 5  | 48,600  | 20 5  | 46,500  | 19 5  | 44,100  | 18 5  | 41,500  | 17 5  | 39,000  | 16 5  |
| 280    | 3800             | 1 86             |   |       |   |       | 51,700  | 24 5  | 49,900  | 23 5  | 47,800  | 22 5  | 45,500  | 21 5  | 43,000  | 20 0  |
| 294    | 4000             | 2 01             |   |       |   |       | 55,000  | 29    | 53,300  | 28    | 51,400  | 27    | 49,200  | 26    | 47,000  | 24 5  |
| 309    | 4200             | 2 27             |   |       |   |       | 58,400  | 34    | 56,700  | 33    | 54,900  | 32    | 53,100  | 31    | 50,900  | 30    |
| 324    | 4400             | 2 49             |   |       |   |       | 61,500  | 39    | 60,000  | 38    | 58,500  | 37    | 56,700  | 36    | 54,600  | 35    |
| 338    | 4600             | 2 72             |   |       |   |       |   |       | 63,200  | 44    | 61,900  | 43    | 60,000  | 42    | 58,400  | 41    |
| 353    | 4800             | 2 96             |   |       |   |       |   |       | 66,600  | 50    | 65,000  | 49    | 63,600  | 48    | 62,000  | 47    |
| 368    | 5000             | 3 21             |   |       |   |       |   |       | 69,800  | 58    | 68,500  | 56    | 67,100  | 54    | 65,500  | 54    |
| 386    | 5250             | 3 54             |   |       |   |       |   |       | 73,600  | 66    | 72,100  | 64    | 71,300  | 64    | 69,800  | 64    |
| 405    | 5500             | 3 89             |   |       |   |       |   |       |   |       | 76,500  | 76    | 75,300  | 74    | 73,800  | 74    |
| 423    | 5750             | 4 25             |   |       |   |       |   |       |   |       | 80,500  | 88    | 79,500  | 86    | 77,900  | 84    |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 oza. per sq. inch     |       | Static Pressure 1 1/4" Water .725 oza. per sq. inch |       | Static Pressure 1 1/2" Water .878 oza. per sq. inch |       | Static Pressure 1 3/4" Water 1.01 oza. per sq. inch |       | Static Pressure 2" Water 1.16 oza. per sq. inch |       | Static Pressure 2 1/2" Water 1.45 oza. per sq. inch |       | Static Pressure 3" Water 1.73 oza. per sq. inch |       |
| 221    | 3000             | 1 16             | 21,500  | 7 0   |   |       |   |       |   |       |   |       |   |       |   |       |
| 235    | 3200             | 1 32             | 28,900  | 9 3   | 24,100  | 7 8   |   |       |   |       |   |       |   |       |   |       |
| 250    | 3400             | 1 49             | 32,700  | 12 0  | 28,500  | 10 5  |   |       |   |       |   |       |   |       |   |       |
| 265    | 3600             | 1 67             | 36,700  | 15 0  | 32,100  | 13 5  | 29,000  | 12 0  |   |       |   |       |   |       |   |       |
| 280    | 3800             | 1 86             | 40,600  | 19 0  | 36,700  | 17 0  | 33,900  | 15 5  | 28,900  | 13    |   |       |   |       |   |       |
| 291    | 4000             | 2 01             | 44,800  | 23 5  | 40,900  | 20 5  | 37,500  | 19 0  | 33,300  | 17    | 28,600  | 14 0  |   |       |   |       |
| 309    | 4200             | 2 27             | 48,800  | 28    | 44,900  | 25    | 41,500  | 23 5  | 37,800  | 21    | 33,100  | 18 5  |   |       |   |       |
| 324    | 4400             | 2 49             | 52,800  | 34    | 48,500  | 30    | 45,800  | 28    | 41,800  | 26    | 37,600  | 23    |   |       |   |       |
| 338    | 4600             | 2 72             | 56,500  | 39    | 52,800  | 36    | 49,600  | 34    | 46,000  | 31    | 42,900  | 29    | 35,900  | 24    |   |       |
| 353    | 4800             | 2 96             | 60,100  | 46    | 56,700  | 43    | 53,400  | 40    | 50,100  | 37    | 46,300  | 34    | 40,300  | 29    |   |       |
| 368    | 5000             | 3 21             | 64,000  | 52    | 60,500  | 50    | 57,400  | 47    | 54,100  | 44    | 50,100  | 40    | 44,600  | 35    | 38,300  | 30    |
| 386    | 5250             | 3 54             | 68,500  | 62    | 65,300  | 58    | 62,000  | 56    | 59,000  | 52    | 55,500  | 49    | 49,700  | 43    | 44,900  | 39    |
| 405    | 5500             | 3 89             | 72,900  | 72    | 69,800  | 70    | 66,800  | 66    | 63,600  | 62    | 60,000  | 58    | 54,300  | 52    | 49,500  | 47    |
| 423    | 5750             | 4 25             | 77,900  | 84    | 74,200  | 80    | 71,500  | 78    | 68,400  | 74    | 65,400  | 70    | 59,300  | 62    | 54,600  | 56    |
| 441    | 6000             | 4 62             | 81,100  | 96    | 78,600  | 92    | 76,100  | 90    | 73,800  | 86    | 70,400  | 82    | 64,100  | 74    | 59,700  | 70    |
| 460    | 6250             | 5 01             | 85,500  | 110   | 83,000  | 105   | 80,600  | 105   | 77,900  | 100   | 75,200  | 96    | 69,100  | 88    | 64,600  | 80    |
| 478    | 6500             | 5 43             | 89,500  | 125   | 87,400  | 120   | 84,800  | 120   | 82,500  | 115   | 79,900  | 110   | 74,500  | 100   | 69,800  | 94    |
| 496    | 6750             | 5 85             | 93,500  | 140   | 91,500  | 135   | 89,100  | 135   | 87,100  | 130   | 84,500  | 125   | 79,400  | 120   | 74,700  | 110   |
| 515    | 7000             | 6 30             | 97,500  | 155   | 95,600  | 155   | 93,600  | 150   | 91,500  | 145   | 89,100  | 145   | 84,100  | 135   | 79,600  | 125   |
| 532    | 7500             | 7 22             |   |       | 104,000   | 190   | 102,000   | 190   | 100,000   | 185   | 98,000  | 180   | 93,700  | 175   | 89,100  | 165   |
| 548    | 8000             | 8 22             |   |       | 112,000   | 235   | 110,000   | 230   | 109,000   | 230   | 107,000   | 225   | 103,000   | 215   | 98,500  | 205   |
| 625    | 8500             | 9 28             |   |       |   |       | 118,000   | 280   | 117,000   | 275   | 115,000   | 275   | 112,000   | 265   | 108,000   | 255   |
| 662    | 9000             | 10 40            |   |       |   |       | 126,000   | 335   |   |       | 124,000   | 330   | 120,000   | 320   | 117,000   | 310   |
| 699    | 9500             | 11 60            |   |       |   |       |   |       | 133,000   | 395   | 132,000   | 390   | 129,000   | 380   | 126,000   | 370   |
| 735    | 10000            | 12 84            |   |       |   |       |   |       |   |       | 140,000   | 460   | 137,000   | 450   | 134,000   | 440   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 3 1/2" Water 2.02 oza. per sq. inch |       | Static Pressure 4" Water 2.31 oza. per sq. inch     |       | Static Pressure 5" Water 2.89 oza. per sq. inch     |       | Static Pressure 6" Water 3.47 oza. per sq. inch     |       | Static Pressure 7" Water 4.05 oza. per sq. inch |       | Static Pressure 8" Water 4.63 oza. per sq. inch     |       | Static Pressure 9" Water 5.2 oza. per sq. inch  |       |
| 405    | 5500             | 3 89             | 43,700  | 42    |   |       |   |       |   |       |   |       |   |       |   |       |
| 423    | 5750             | 4 25             | 49,000  | 50    | 43,800  | 46    |   |       |   |       |   |       |   |       |   |       |
| 441    | 6000             | 4 62             | 51,300  | 62    | 49,200  | 50    |   |       |   |       |   |       |   |       |   |       |
| 460    | 6250             | 5 01             | 59,400  | 72    | 54,500  | 66    |   |       |   |       |   |       |   |       |   |       |
| 478    | 6500             | 5 43             | 64,000  | 86    | 60,500  | 78    | 50,900  | 68    |   |       |   |       |   |       |   |       |
| 496    | 6750             | 5 85             | 69,000  | 100   | 64,900  | 94    | 56,200  | 80    |   |       |   |       |   |       |   |       |
| 515    | 7000             | 6 30             | 74,000  | 115   | 70,000  | 110   | 61,400  | 94    | 52,400  | 80    |   |       |   |       |   |       |
| 532    | 7500             | 7 22             | 81,000  | 150   | 80,000  | 145   | 71,500  | 125   | 63,000  | 110   | 54,500  | 94    |   |       |   |       |
| 548    | 8000             | 8 22             | 91,000  | 185   | 89,500  | 185   | 81,100  | 165   | 73,500  | 150   | 66,000  | 135   | 57,400  | 110   |   |       |
| 625    | 8500             | 9 28             | 104,000   | 245   | 99,000  | 235   | 91,100  | 210   | 83,500  | 190   | 76,500  | 175   | 69,600  | 160   | 61,600  | 135   |
| 662    | 9000             | 10 40            | 113,000   | 300   | 109,000   | 290   | 101,000   | 265   | 93,500  | 240   | 87,000  | 225   | 80,500  | 205   | 73,900  | 190   |
| 699    | 9500             | 11 60            | 122,000   | 360   | 119,000   | 350   | 112,000   | 330   | 104,000   | 300   | 96,500  | 280   | 91,000  | 260   | 84,900  | 240   |
| 735    | 10000            | 12 84            | 131,000   | 430   | 128,000   | 420   | 121,000   | 395   | 114,000   | 370   | 107,000   | 345   | 100,000   | 320   | 95,000  | 300   |

## Double Inlet

## No. 11 Multivane Fan — Design 3

## Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed<br>F.P.M. | S.N.D.<br>in<br>inches | Volume<br>C.F.M.<br>Static Pressure<br>1" Water<br>.0722 oza. per<br>sq. inch | H. P. | Volume<br>C.F.M.<br>Static Pressure<br>1½" Water<br>.145 oza. per<br>sq. inch | H. P. | Volume<br>C.F.M.<br>Static Pressure<br>2" Water<br>.217 oza. per<br>sq. inch | H. P. | Volume<br>C.F.M.<br>Static Pressure<br>2½" Water<br>.289 oza. per<br>sq. inch | H. P. | Volume<br>C.F.M.<br>Static Pressure<br>3" Water<br>.361 oza. per<br>sq. inch | H. P. | Volume<br>C.F.M.<br>Static Pressure<br>3½" Water<br>.434 oza. per<br>sq. inch | H. P. | Volume<br>C.F.M.<br>Static Pressure<br>4" Water<br>.506 oza. per<br>sq. inch | H. P. |
|--------|---------------------|------------------------|---|-------|---|-------|--|-------|---|-------|--|-------|---|-------|--|-------|
| 65     | 1000                | 0.1284                 | 9,000   | 0.275 |   |       |  |       |   |       |  |       |   |       |  |       |
| 78     | 1200                | 0.185                  | 11,700  | 0.67  |   |       |  |       |   |       |  |       |   |       |  |       |
| 92     | 1400                | 0.252                  | 19,700  | 1.25  |   |       |  |       |   |       |  |       |   |       |  |       |
| 105    | 1600                | 0.329                  | 21,700  | 2.05  | 16,800  | 1.35  |  |       |   |       |  |       |   |       |  |       |
| 118    | 1800                | 0.412                  | 29,400  | 3.10  | 23,200  | 2.4   | 18,400   | 1.90  |   |       |  |       |   |       |  |       |
| 131    | 2000                | 0.511                  | 33,800  | 4.45  | 28,300  | 3.7   | 23,700   | 2.95  | 18,100  | 2.2   |  |       |   |       |  |       |
| 144    | 2200                | 0.621                  | 37,900  | 6     | 33,400  | 5.3   | 28,900   | 4.45  | 23,700  | 3.6   |  |       |   |       |  |       |
| 157    | 2400                | 0.740                  | 42,100  | 8     | 38,100  | 7.2   | 33,900   | 6.3   | 29,300  | 5.3   | 25,500   | 4.55  |   |       |  |       |
| 170    | 2600                | 0.868                  | 46,100  | 10    | 42,700  | 9.5   | 38,600   | 8.5   | 34,200  | 7.4   | 30,900   | 6.6   | 27,800  | 5.9   |  |       |
| 183    | 2800                | 1.01                   |   |       | 47,100  | 12.0  | 43,400   | 11.0  | 39,700  | 10.0  | 36,200   | 9.3   | 32,800  | 8.1   | 29,800   | 7.4   |
| 196    | 3000                | 1.16                   |   |       | 51,300  | 15.0  | 48,300   | 14.5  | 44,500  | 13.0  | 41,300   | 12.0  | 37,300  | 10.5  | 34,900   | 9.9   |
| 209    | 3200                | 1.32                   |   |       | 55,600  | 18.5  | 52,600   | 17.5  | 49,300  | 16.5  | 45,700   | 15.0  | 43,100  | 14    | 39,400   | 13.0  |
| 222    | 3400                | 1.49                   |   |       | 59,800  | 22.5  | 56,800   | 21.5  | 54,100  | 20.5  | 51,000   | 19.0  | 47,900  | 18    | 44,700   | 16.5  |
| 235    | 3600                | 1.67                   |   |       | 63,800  | 27    | 61,500   | 26    | 58,800  | 25    | 55,800   | 23.5  | 52,600  | 22    | 49,400   | 20.5  |
| 248    | 3800                | 1.86                   |   |       |   |       | 65,500   | 31    | 63,100  | 30    | 60,500   | 29    | 57,600  | 27    | 54,500   | 26    |
| 262    | 4000                | 2.01                   |   |       |   |       | 69,600   | 37    | 67,500  | 35    | 65,000   | 34    | 62,300  | 33    | 59,400   | 31    |
| 275    | 4200                | 2.27                   |   |       |   |       | 73,900   | 43    | 71,800  | 42    | 69,500   | 40    | 67,100  | 39    | 64,500   | 37    |
| 288    | 4400                | 2.49                   |   |       |   |       | 77,900   | 49    | 76,000  | 48    | 74,000   | 47    | 71,800  | 46    | 69,000   | 44    |
| 301    | 4600                | 2.72                   |   |       |   |       |  |       | 80,000  | 56    | 78,200   | 54    | 76,000  | 52    | 73,900   | 52    |
| 314    | 4800                | 2.96                   |   |       |   |       |  |       | 84,300  | 61    | 82,300   | 62    | 80,500  | 60    | 78,500   | 60    |
| 327    | 5000                | 3.21                   |   |       |   |       |  |       | 88,300  | 72    | 86,600   | 72    | 84,900  | 70    | 82,900   | 68    |
| 343    | 5250                | 3.54                   |   |       |   |       |  |       | 93,100  | 84    | 91,600   | 82    | 90,100  | 82    | 88,300   | 80    |
| 360    | 5500                | 3.89                   |   |       |   |       |  |       | 96,900  | 96    | 95,400   | 94    | 93,400  | 92    | 91,400   | 92    |
| 376    | 5750                | 4.25                   |   |       |   |       |  |       | 102,000   | 110   | 100,000  | 110   | 98,500  | 105   | 96,500   | 105   |
| R.P.M. | Tip Speed<br>F.P.M. | S.N.D.<br>in<br>inches | Static Pressure<br>1" Water<br>.578 oza. per<br>sq. inch                      |       | Static Pressure<br>1½" Water<br>.723 oza. per<br>sq. inch                     |       | Static Pressure<br>2" Water<br>.878 oza. per<br>sq. inch                     |       | Static Pressure<br>2½" Water<br>1.01 oza. per<br>sq. inch                     |       | Static Pressure<br>3" Water<br>1.16 oza. per<br>sq. inch                     |       | Static Pressure<br>3½" Water<br>1.45 oza. per<br>sq. inch                     |       | Static Pressure<br>4" Water<br>1.73 oza. per<br>sq. inch                     |       |
| 196    | 3000                | 1.16                   | 31,100  | 8.8   |   |       |  |       |   |       |  |       |   |       |  |       |
| 209    | 3200                | 1.32                   | 36,600  | 12.0  | 30,500  | 9.8   |  |       |   |       |  |       |   |       |  |       |
| 222    | 3400                | 1.49                   | 41,400  | 15.5  | 36,100  | 13.0  |  |       |   |       |  |       |   |       |  |       |
| 235    | 3600                | 1.67                   | 46,500  | 19    | 40,600  | 17.0  | 36,700   | 15.0  |   |       |  |       |   |       |  |       |
| 248    | 3800                | 1.86                   | 51,400  | 24    | 46,400  | 21.5  | 42,900   | 19.5  | 36,600  | 16.5  |  |       |   |       |  |       |
| 262    | 4000                | 2.01                   | 56,600  | 29    | 51,400  | 26    | 47,400   | 24    | 42,100  | 21    | 36,200   | 17.5  |   |       |  |       |
| 275    | 4200                | 2.27                   | 61,800  | 36    | 56,800  | 32    | 52,600   | 30    | 47,800  | 27    | 41,900   | 23.5  |   |       |  |       |
| 288    | 4400                | 2.49                   | 66,900  | 42    | 61,500  | 39    | 58,000   | 36    | 53,000  | 32    | 47,600   | 29    |   |       |  |       |
| 301    | 4600                | 2.72                   | 71,400  | 50    | 66,900  | 46    | 62,800   | 43    | 58,300  | 39    | 54,300   | 36    | 45,400  | 30    |  |       |
| 314    | 4800                | 2.96                   | 76,200  | 58    | 71,900  | 54    | 67,600   | 50    | 63,500  | 47    | 58,600   | 43    | 50,900  | 37    |  |       |
| 327    | 5000                | 3.21                   | 81,000  | 66    | 76,500  | 62    | 72,600   | 60    | 68,500  | 56    | 63,500   | 50    | 56,400  | 44    | 48,500   | 38    |
| 343    | 5250                | 3.54                   | 86,500  | 78    | 82,000  | 74    | 78,500   | 70    | 74,600  | 66    | 70,100   | 62    | 63,000  | 54    | 56,800   | 49    |
| 360    | 5500                | 3.89                   | 92,100  | 92    | 88,400  | 88    | 84,500   | 84    | 80,600  | 80    | 76,000   | 74    | 68,600  | 60    | 62,600   | 60    |
| 376    | 5750                | 4.25                   | 97,500  | 105   | 94,000  | 100   | 90,500   | 98    | 86,500  | 94    | 82,600   | 88    | 75,000  | 78    | 69,100   | 72    |
| 392    | 6000                | 4.62                   | 103,000   | 120   | 99,600  | 120   | 96,500   | 115   | 92,700  | 110   | 89,000   | 105   | 81,200  | 94    | 75,500   | 88    |
| 408    | 6250                | 5.01                   | 108,000   | 140   | 105,000   | 135   | 102,000  | 130   | 98,500  | 125   | 95,200   | 120   | 87,500  | 110   | 81,800   | 100   |
| 425    | 6500                | 5.43                   | 113,000   | 155   | 110,000   | 155   | 107,000  | 150   | 104,000   | 145   | 101,000  | 140   | 94,100  | 130   | 88,400   | 120   |
| 441    | 6750                | 5.85                   | 118,000   | 175   | 116,000   | 175   | 113,000  | 170   | 110,000   | 165   | 107,000  | 160   | 100,000   | 150   | 94,500   | 140   |
| 458    | 7000                | 6.30                   | 123,000   | 200   | 121,000   | 195   | 119,000  | 190   | 116,000   | 185   | 113,000  | 180   | 107,000   | 170   | 101,000  | 160   |
| 490    | 7500                | 7.22                   |   |       | 132,000   | 245   | 129,000  | 240   | 127,000   | 235   | 124,000  | 230   | 119,000   | 220   | 113,000  | 205   |
| 523    | 8000                | 8.22                   |   |       | 142,000   | 295   | 139,000  | 295   | 137,000   | 290   | 135,000  | 285   | 130,000   | 270   | 125,000  | 260   |
| 555    | 8500                | 9.28                   |   |       |   |       | 149,000  | 350   | 148,000   | 350   | 146,000  | 345   | 141,000   | 335   | 137,000  | 325   |
| 588    | 9000                | 10.40                  |   |       |   |       | 159,000  | 425   | 158,000   | 420   | 156,000  | 415   | 152,000   | 405   | 148,000  | 395   |
| 620    | 9500                | 11.60                  |   |       |   |       |  |       | 169,000   | 500   | 167,000  | 495   | 163,000   | 480   | 159,000  | 470   |
| 654    | 10000               | 12.84                  |   |       |   |       |  |       |   |       | 177,000  | 580   | 173,000   | 570   | 170,000  | 555   |
| R.P.M. | Tip Speed<br>F.P.M. | S.N.D.<br>in<br>inches | Static Pressure<br>3½" Water<br>2.02 oza. per<br>sq. inch                     |       | Static Pressure<br>4" Water<br>2.31 oza. per<br>sq. inch                      |       | Static Pressure<br>5" Water<br>2.89 oza. per<br>sq. inch                     |       | Static Pressure<br>6" Water<br>3.47 oza. per<br>sq. inch                      |       | Static Pressure<br>7" Water<br>4.05 oza. per<br>sq. inch                     |       | Static Pressure<br>8" Water<br>4.63 oza. per<br>sq. inch                      |       | Static Pressure<br>9" Water<br>5.2 oza. per<br>sq. inch                      |       |
| 360    | 5500                | 3.89                   | 55,300  | 52    |   |       |  |       |   |       |  |       |   |       |  |       |
| 376    | 5750                | 4.25                   | 61,900  | 64    | 55,400  | 58    |  |       |   |       |  |       |   |       |  |       |
| 392    | 6000                | 4.62                   | 68,600  | 78    | 62,300  | 64    |  |       |   |       |  |       |   |       |  |       |
| 408    | 6250                | 5.01                   | 75,100  | 92    | 68,900  | 84    |  |       |   |       |  |       |   |       |  |       |
| 425    | 6500                | 5.43                   | 81,000  | 110   | 76,600  | 98    | 64,500   | 86    |   |       |  |       |   |       |  |       |
| 441    | 6750                | 5.85                   | 87,200  | 125   | 82,000  | 120   | 71,100   | 100   |   |       |  |       |   |       |  |       |
| 458    | 7000                | 6.30                   | 93,500  | 145   | 88,500  | 140   | 77,600   | 120   | 66,300  | 100   |  |       |   |       |  |       |
| 490    | 7500                | 7.22                   | 106,000   | 195   | 101,000   | 180   | 90,400   | 160   | 79,700  | 140   | 68,900   | 120   |   |       |  |       |
| 523    | 8000                | 8.22                   | 119,000   | 250   | 113,000   | 235   | 103,000  | 210   | 93,000  | 185   | 83,500   | 170   | 72,600  | 140   |  |       |
| 555    | 8500                | 9.28                   | 131,000   | 310   | 126,000   | 300   | 115,000  | 270   | 106,000   | 245   | 96,900   | 220   | 78,100  | 200   | 78,000   | 175   |
| 588    | 9000                | 10.40                  | 143,000   | 380   | 138,000   | 365   | 128,000  | 335   | 118,000   | 305   | 110,000  | 280   | 102,000   | 260   | 93,500   | 240   |
| 620    | 9500                | 11.60                  | 155,000   | 455   | 150,000   | 445   | 141,000  | 415   | 131,000   | 380   | 122,000  | 350   | 115,000   | 330   | 107,000  | 305   |
| 654    | 10000               | 12.84                  | 166,000   | 545   | 162,000   | 530   | 153,000  | 500   | 144,000   | 470   | 135,000  | 435   | 127,000   | 405   | 120,000  | 380   |



Double Inlet

## No. 12 Multivane Fan — Design 3

Single Width

When Discharging Air at 65 F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed<br>F.P.M. | S.N.D.<br>in<br>inches | Volume<br>C.F.M.<br>Static Pressure<br>1" Water<br>.0722 oza. per<br>sq. inch | H. P. | Volume<br>C.F.M.<br>Static Pressure<br>1 1/4" Water<br>.145 oza. per<br>sq. inch | H. P. | Volume<br>C.F.M.<br>Static Pressure<br>1 1/2" Water<br>.217 oza. per<br>sq. inch | H. P. | Volume<br>C.F.M.<br>Static Pressure<br>1 3/4" Water<br>.289 oza. per<br>sq. inch | H. P. | Volume<br>C.F.M.<br>Static Pressure<br>2" Water<br>.361 oza. per<br>sq. inch | H. P. | Volume<br>C.F.M.<br>Static Pressure<br>2 1/2" Water<br>.434 oza. per<br>sq. inch | H. P. | Volume<br>C.F.M.<br>Static Pressure<br>3" Water<br>.506 oza. per<br>sq. inch | H. P. |
|--------|---------------------|------------------------|---|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|
| 50     | 1000                | 0 1284                 | 11,200  | 0 41  |  |       |  |       |  |       |  |       |  |       |  |       |
| 71     | 1200                | 0 185                  | 18,100  | 0 82  |  |       |  |       |  |       |  |       |  |       |  |       |
| 82     | 1400                | 0 252                  | 21,300  | 1 55  |  |       |  |       |  |       |  |       |  |       |  |       |
| 94     | 1600                | 0 329                  | 30,100  | 2 55  | 20,800   | 1 70  |  |       |  |       |  |       |  |       |  |       |
| 106    | 1800                | 0 412                  | 36,200  | 3 85  | 28,600   | 2 95  | 22,700   | 2 30  |  |       |  |       |  |       |  |       |
| 118    | 2000                | 0 511                  | 41,600  | 5 5   | 34,900   | 4 55  | 29,200   | 3 65  | 22,400   | 2 75  |  |       |  |       |  |       |
| 129    | 2200                | 0 621                  | 46,800  | 7 4   | 41,200   | 6 5   | 35,600   | 5 5   | 29,300   | 4 15  |  |       |  |       |  |       |
| 141    | 2400                | 0 740                  | 51,900  | 9 8   | 47,000   | 8 9   | 41,800   | 7 8   | 36,200   | 6 6   | 31,500   | 5 6   |  |       |  |       |
| 153    | 2600                | 0 868                  | 56,900  | 12 5  | 52,700   | 11 5  | 47,600   | 10 5  | 42,200   | 9 1   | 38,100   | 8 1   | 34,300   | 7 3   |  |       |
| 165    | 2800                | 1 01                   | 58,100  | 15 0  | 53,500   | 14 0  | 49,000   | 12 5  | 44,700   | 11 5  | 40,500   | 10 0  | 36,800   | 9 1   |  |       |
| 177    | 3000                | 1 16                   | 63,200  | 18 5  | 59,500   | 17 5  | 54,800   | 16 0  | 50,900   | 15    | 46,000   | 13 0  | 43,100   | 12 0  |  |       |
| 188    | 3200                | 1 32                   | 68,300  | 23    | 64,900   | 22    | 60,800   | 20 5  | 56,500   | 19    | 53,100   | 17 5  | 48,600   | 16 0  |  |       |
| 200    | 3400                | 1 49                   | 73,700  | 28    | 70,000   | 27    | 66,700   | 25    | 62,800   | 24    | 59,100   | 22    | 55,200   | 20 5  |  |       |
| 212    | 3600                | 1 67                   | 78,700  | 34    | 75,800   | 32    | 72,500   | 31    | 68,800   | 29    | 64,900   | 27    | 61,000   | 25    |  |       |
| 224    | 3800                | 1 86                   |   |       | 80,700   | 38    | 77,900   | 37    | 74,500   | 35    | 71,000   | 34    | 67,100   | 32    |  |       |
| 235    | 4000                | 2 01                   |   |       | 86,000   | 45    | 83,200   | 44    | 80,100   | 42    | 76,900   | 40    | 73,300   | 38    |  |       |
| 247    | 4200                | 2 27                   |   |       | 91,100   | 52    | 88,500   | 52    | 85,700   | 50    | 82,900   | 48    | 79,500   | 46    |  |       |
| 259    | 4400                | 2 49                   |   |       | 96,000   | 60    | 93,600   | 60    | 91,200   | 58    | 88,500   | 56    | 85,200   | 54    |  |       |
| 271    | 4600                | 2 72                   |   |       |  |       | 98,600   | 68    | 96,500   | 68    | 93,700   | 66    | 91,100   | 64    |  |       |
| 282    | 4800                | 2 96                   |   |       |  |       | 104,000  | 78    | 102,000  | 78    | 99,400   | 76    | 96,800   | 74    |  |       |
| 294    | 5000                | 3 21                   |   |       |  |       | 109,000  | 90    | 107,000  | 88    | 105,000  | 86    | 102,000  | 84    |  |       |
| 309    | 5250                | 3 54                   |   |       |  |       | 115,000  | 105   | 113,000  | 100   | 111,000  | 100   | 109,000  | 98    |  |       |
| 324    | 5500                | 3 89                   |   |       |  |       |  |       | 120,000  | 120   | 118,000  | 115   | 115,000  | 115   |  |       |
| 338    | 5750                | 4 25                   |   |       |  |       |  |       | 126,000  | 135   | 124,000  | 135   | 122,000  | 130   |  |       |
| R.P.M. | Tip Speed<br>F.P.M. | S.N.D.<br>in<br>inches | Static Pressure<br>3" Water<br>.578 oza. per<br>sq. inch                      | H. P. | Static Pressure<br>3 1/4" Water<br>.723 oza. per<br>sq. inch                     | H. P. | Static Pressure<br>3 1/2" Water<br>.878 oza. per<br>sq. inch                     | H. P. | Static Pressure<br>3 3/4" Water<br>1.01 oza. per<br>sq. inch                     | H. P. | Static Pressure<br>4" Water<br>1.16 oza. per<br>sq. inch                     | H. P. | Static Pressure<br>4 1/2" Water<br>1.45 oza. per<br>sq. inch                     | H. P. | Static Pressure<br>5" Water<br>1.73 oza. per<br>sq. inch                     | H. P. |
| 177    | 3000                | 1 16                   | 38,300  | 11 0  |  |       |  |       |  |       |  |       |  |       |  |       |
| 188    | 3200                | 1 32                   | 45,100  | 14 5  | 37,600   | 12    |  |       |  |       |  |       |  |       |  |       |
| 200    | 3400                | 1 49                   | 51,100  | 19 0  | 44,500   | 16    |  |       |  |       |  |       |  |       |  |       |
| 212    | 3600                | 1 67                   | 57,300  | 23 5  | 50,000   | 21    | 45,300   | 18 5  |  |       |  |       |  |       |  |       |
| 224    | 3800                | 1 86                   | 63,500  | 30    | 57,300   | 26    | 53,000   | 24    | 45,100   | 26 5  |  |       |  |       |  |       |
| 235    | 4000                | 2 01                   | 69,900  | 36    | 63,500   | 32    | 58,500   | 29    | 51,900   | 26    | 44,700   | 22    |  |       |  |       |
| 247    | 4200                | 2 27                   | 76,200  | 44    | 70,000   | 40    | 64,900   | 36    | 58,700   | 33    | 51,700   | 29    |  |       |  |       |
| 259    | 4400                | 2 49                   | 82,500  | 52    | 75,800   | 48    | 71,500   | 44    | 65,300   | 40    | 58,700   | 36    |  |       |  |       |
| 271    | 4600                | 2 72                   | 88,100  | 62    | 82,400   | 56    | 77,400   | 52    | 71,900   | 48    | 67,000   | 45    | 56,000   | 38    |  |       |
| 282    | 4800                | 2 96                   | 94,000  | 72    | 88,500   | 66    | 83,400   | 62    | 78,300   | 58    | 72,300   | 52    | 62,800   | 47    |  |       |
| 294    | 5000                | 3 21                   | 99,900  | 82    | 94,500   | 78    | 89,600   | 72    | 83,500   | 68    | 78,200   | 62    | 69,600   | 56    | 59,900   | 47    |
| 309    | 5250                | 3 54                   | 107,000   | 96    | 102,000  | 92    | 96,800   | 88    | 92,000   | 82    | 86,500   | 76    | 77,600   | 68    | 70,000   | 62    |
| 324    | 5500                | 3 89                   | 111,000   | 115   | 109,000  | 110   | 104,000  | 105   | 99,400   | 98    | 93,700   | 92    | 84,600   | 82    | 77,200   | 74    |
| 338    | 5750                | 4 25                   | 120,000   | 130   | 116,000  | 125   | 112,000  | 120   | 107,000  | 115   | 102,000  | 110   | 92,500   | 98    | 85,200   | 88    |
| 353    | 6000                | 4 62                   | 127,000   | 150   | 123,000  | 145   | 119,000  | 140   | 114,000  | 135   | 110,000  | 130   | 100,000  | 115   | 93,100   | 110   |
| 368    | 6250                | 5 01                   | 133,000   | 170   | 130,000  | 165   | 126,000  | 160   | 122,000  | 155   | 117,000  | 150   | 108,000  | 135   | 101,000  | 125   |
| 382    | 6500                | 5 43                   | 140,000   | 195   | 136,000  | 190   | 132,000  | 185   | 129,000  | 180   | 125,000  | 175   | 116,000  | 160   | 109,000  | 145   |
| 397    | 6750                | 5 85                   | 146,000   | 220   | 143,000  | 215   | 139,000  | 210   | 136,000  | 205   | 132,000  | 195   | 124,000  | 185   | 117,000  | 170   |
| 412    | 7000                | 6 30                   | 152,000   | 245   | 149,000  | 240   | 145,000  | 235   | 143,000  | 230   | 139,000  | 225   | 131,000  | 210   | 124,000  | 195   |
| 441    | 7500                | 7 22                   |   |       | 163,000  | 300   | 159,000  | 295   | 156,000  | 290   | 153,000  | 280   | 146,000  | 270   | 139,000  | 255   |
| 471    | 8000                | 8 22                   |   |       | 175,000  | 365   | 172,000  | 360   | 169,000  | 355   | 166,000  | 350   | 160,000  | 335   | 151,000  | 325   |
| 500    | 8500                | 9 28                   |   |       |  |       | 184,000  | 435   | 182,000  | 430   | 180,000  | 425   | 174,000  | 415   | 169,000  | 400   |
| 530    | 9000                | 10 40                  |   |       |  |       | 197,000  | 525   | 195,000  | 520   | 193,000  | 515   | 188,000  | 500   | 182,000  | 485   |
| 559    | 9500                | 11 60                  |   |       |  |       |  |       | 208,000  | 615   | 206,000  | 610   | 201,000  | 595   | 196,000  | 585   |
| 588    | 10000               | 12 84                  |   |       |  |       |  |       |  |       | 218,000  | 715   | 214,000  | 700   | 209,000  | 685   |
| R.P.M. | Tip Speed<br>F.P.M. | S.N.D.<br>in<br>inches | Static Pressure<br>5" Water<br>2.02 oza. per<br>sq. inch                      | H. P. | Static Pressure<br>5 1/4" Water<br>2.31 oza. per<br>sq. inch                     | H. P. | Static Pressure<br>5 1/2" Water<br>2.69 oza. per<br>sq. inch                     | H. P. | Static Pressure<br>5 3/4" Water<br>3.47 oza. per<br>sq. inch                     | H. P. | Static Pressure<br>6" Water<br>4.05 oza. per<br>sq. inch                     | H. P. | Static Pressure<br>6 1/2" Water<br>4.63 oza. per<br>sq. inch                     | H. P. | Static Pressure<br>7" Water<br>5.2 oza. per<br>sq. inch                      | H. P. |
| 324    | 5500                | 3 89                   | 68,200  | 96    |  |       |  |       |  |       |  |       |  |       |  |       |
| 338    | 5750                | 4 25                   | 76,100  | 78    | 68,400   | 72    |  |       |  |       |  |       |  |       |  |       |
| 353    | 6000                | 4 62                   | 81,600  | 96    | 76,900   | 80    |  |       |  |       |  |       |  |       |  |       |
| 368    | 6250                | 5 01                   | 92,600  | 115   | 85,000   | 105   |  |       |  |       |  |       |  |       |  |       |
| 382    | 6500                | 5 43                   | 99,900  | 135   | 91,500   | 120   | 79,500   | 105   |  |       |  |       |  |       |  |       |
| 397    | 6750                | 5 85                   | 108,000   | 155   | 101,000  | 145   | 87,800   | 130   |  |       |  |       |  |       |  |       |
| 412    | 7000                | 6 30                   | 115,000   | 180   | 109,000  | 170   | 95,700   | 150   | 81,700   | 125   |  |       |  |       |  |       |
| 441    | 7500                | 7 22                   | 131,000   | 240   | 125,000  | 225   | 112,000  | 200   | 98,400   | 175   | 85,000   | 145   |  |       |  |       |
| 471    | 8000                | 8 22                   | 147,000   | 305   | 140,000  | 290   | 127,000  | 260   | 115,000  | 230   | 103,000  | 210   | 89,600   | 175   |  |       |
| 500    | 8500                | 9 28                   | 162,000   | 385   | 155,000  | 370   | 142,000  | 330   | 130,000  | 300   | 120,000  | 270   | 109,000  | 245   | 96,300   | 215   |
| 530    | 9000                | 10 40                  | 177,000   | 470   | 171,000  | 455   | 158,000  | 415   | 146,000  | 380   | 136,000  | 350   | 126,000  | 320   | 115,000  | 295   |
| 559    | 9500                | 11 60                  | 191,000   | 565   | 185,000  | 550   | 174,000  | 515   | 162,000  | 470   | 151,000  | 435   | 142,000  | 405   | 132,000  | 375   |
| 588    | 10000               | 12 84                  | 205,000   | 670   | 200,000  | 655   | 189,000  | 620   | 178,000  | 575   | 166,000  | 535   | 157,000  | 500   | 148,000  | 465   |

Double Inlet

## No. 13 Multivane Fan — Design 3

Single Width

When Discharging Air at 65 F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M. H. P.                                 | Volume C.F.M. H. P.                                 | Volume C.F.M. H. P.                                 | Volume C.F.M. H. P.                                 | Volume C.F.M. H. P.                                 | Volume C.F.M. H. P.                                 | Volume C.F.M. H. P.                                 | Volume C.F.M. H. P. | Volume C.F.M. H. P. |
|--------|------------------|------------------|---|---|---|---|---|---|---|---------------------|---------------------|
|        |                  |                  | Static Pressure 1" Water .0722 ozs. per sq. inch    | Static Pressure 1 1/4" Water .145 ozs. per sq. inch | Static Pressure 1 1/2" Water .217 ozs. per sq. inch | Static Pressure 1 3/4" Water .289 ozs. per sq. inch | Static Pressure 2" Water .361 ozs. per sq. inch     | Static Pressure 2 1/4" Water .434 ozs. per sq. inch | Static Pressure 2 1/2" Water .506 ozs. per sq. inch |                     |                     |
| 53     | 1000             | 0 1281           | 13,600 0 415  |   |   |   |   |   |   |                     |                     |
| 61     | 1200             | 0 185            | 21,900 1 00   |   |   |   |   |   |   |                     |                     |
| 75     | 1400             | 0 252            | 29,400 1 85   |   |   |   |   |   |   |                     |                     |
| 86     | 1600             | 0 329            | 36,900 3 10   | 25,200 2 05   |   |   |   |   |   |                     |                     |
| 96     | 1800             | 0 412            | 44,000 4 65   | 31,800 3 6  | 27,500 2 80   |   |   |   |   |                     |                     |
| 107    | 2000             | 0 514            | 50,500 6 6  | 42,400 5 5  | 35,500 4 45   | 27,200 3 3  |   |   |   |                     |                     |
| 118    | 2200             | 0 621            | 56,700 9 0  | 50,000 7 9  | 43,300 6 7  | 35,500 5 4  |   |   |   |                     |                     |
| 128    | 2400             | 0 710            | 63,000 12 0   | 57,000 11   | 50,800 9 5  | 43,900 8 0  | 38,300 6 8  |   |   |                     |                     |
| 139    | 2600             | 0 868            | 69,000 15 5   | 61,000 14   | 57,800 13 0   | 51,200 11 0   | 46,300 9 8  | 41,600 8 9  |   |                     |                     |
| 150    | 2800             | 1 01             |   | 70,500 18   | 65,000 16 5   | 59,500 15 0   | 54,300 14   | 49,000 12   | 44,000 11 0   |                     |                     |
| 160    | 3000             | 1 16             |   | 76,800 23   | 72,300 21 5   | 66,500 19 5   | 61,800 18   | 55,900 16   | 52,300 15 0   |                     |                     |
| 171    | 3200             | 1 32             |   | 83,300 28   | 78,700 26   | 73,700 24 5   | 68,500 23   | 64,500 21   | 59,000 19 5   |                     |                     |
| 182    | 3400             | 1 49             |   | 89,500 34   | 85,000 32   | 81,000 31   | 76,300 29   | 71,800 27   | 67,000 24 5   |                     |                     |
| 193    | 3600             | 1 67             |   | 95,500 41   | 92,000 39   | 88,000 37   | 83,500 35   | 78,800 33   | 74,000 31   |                     |                     |
| 203    | 3800             | 1 86             |   |   | 98,000 46   | 94,500 45   | 90,500 43   | 86,300 41   | 81,500 38   |                     |                     |
| 214    | 4000             | 2 01             |   |   | 104,000 54  | 101,000 54  | 97,300 52   | 93,300 49   | 89,000 46   |                     |                     |
| 225    | 4200             | 2 27             |   |   | 111,000 64  | 108,000 62  | 104,000 60  | 101,000 58  | 96,500 56   |                     |                     |
| 236    | 4400             | 2 49             |   |   | 117,000 74  | 114,000 72  | 111,000 70  | 108,000 68  | 104,000 66  |                     |                     |
| 246    | 4600             | 2 72             |   |   |   | 120,000 84  | 117,000 82  | 114,000 80  | 111,000 76  |                     |                     |
| 257    | 4800             | 2 96             |   |   |   | 126,000 96  | 123,000 94  | 121,000 92  | 118,000 90  |                     |                     |
| 268    | 5000             | 3 21             |   |   |   | 132,000 110   | 130,000 105   | 127,000 105   | 124,000 100   |                     |                     |
| 281    | 5250             | 3 54             |   |   |   | 140,000 125   | 137,000 125   | 135,000 125   | 132,000 120   |                     |                     |
| 294    | 5500             | 3 89             |   |   |   |   | 145,000 145   | 143,000 140   | 140,000 140   |                     |                     |
| 308    | 5750             | 4 25             |   |   |   |   | 153,000 165   | 151,000 165   | 148,000 160   |                     |                     |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 ozs. per sq. inch     | Static Pressure 1 1/4" Water .723 ozs. per sq. inch | Static Pressure 1 1/2" Water .878 ozs. per sq. inch | Static Pressure 1 3/4" Water 1.01 ozs. per sq. inch | Static Pressure 2" Water 1.16 ozs. per sq. inch     | Static Pressure 2 1/4" Water 1.45 ozs. per sq. inch | Static Pressure 2 1/2" Water 1.73 ozs. per sq. inch |                     |                     |
| 160    | 3000             | 1 16             | 46,500 13 0   |   |   |   |   |   |   |                     |                     |
| 171    | 3200             | 1 32             | 51,800 17 5   | 45,000 14 5   |   |   |   |   |   |                     |                     |
| 182    | 3400             | 1 49             | 62,000 23   | 54,000 19 5   |   |   |   |   |   |                     |                     |
| 193    | 3600             | 1 67             | 69,500 29   | 60,800 25   | 55,000 22 5   |   |   |   |   |                     |                     |
| 203    | 3800             | 1 86             | 77,000 36   | 69,500 32   | 64,300 29   | 54,800 25   |   |   |   |                     |                     |
| 214    | 4000             | 2 01             | 84,800 44   | 77,000 39   | 71,000 36   | 63,000 32   | 54,300 27   |   |   |                     |                     |
| 225    | 4200             | 2 27             | 92,500 54   | 85,000 48   | 78,000 44   | 71,500 40   | 62,800 35   |   |   |                     |                     |
| 236    | 4400             | 2 49             | 100,000 64  | 92,000 58   | 86,800 54   | 79,300 48   | 71,300 44   |   |   |                     |                     |
| 246    | 4600             | 2 72             | 107,000 74  | 100,000 70  | 94,000 64   | 87,300 58   | 81,300 54   | 68,000 46   |   |                     |                     |
| 257    | 4800             | 2 96             | 114,000 86  | 108,000 80  | 101,000 78  | 95,000 70   | 87,700 64   | 76,300 54   |   |                     |                     |
| 268    | 5000             | 3 21             | 121,000 100   | 115,000 94  | 109,000 88  | 103,000 82  | 95,000 76   | 84,500 66   | 72,000 58   |                     |                     |
| 281    | 5250             | 3 54             | 130,000 115   | 124,000 110   | 118,000 106   | 112,000 100   | 105,000 92  | 94,300 82   | 85,000 74   |                     |                     |
| 294    | 5500             | 3 89             | 138,000 135   | 132,000 130   | 127,000 125   | 121,000 120   | 114,000 110   | 103,000 100   | 93,800 90   |                     |                     |
| 308    | 5750             | 4 25             | 146,000 160   | 141,000 155   | 135,000 145   | 120,000 140   | 114,000 135   | 112,000 120   | 104,000 110   |                     |                     |
| 321    | 6000             | 4 62             | 154,000 180   | 149,000 175   | 144,000 170   | 139,000 165   | 133,000 155   | 122,000 140   | 113,000 130   |                     |                     |
| 334    | 6250             | 5 01             | 162,000 210   | 157,000 200   | 153,000 195   | 148,000 190   | 143,000 180   | 131,000 165   | 123,000 150   |                     |                     |
| 348    | 6500             | 5 43             | 169,000 235   | 166,000 230   | 161,000 225   | 156,000 215   | 151,000 210   | 141,000 195   | 132,000 175   |                     |                     |
| 361    | 6750             | 5 85             | 177,000 265   | 174,000 260   | 169,000 250   | 165,000 245   | 160,000 240   | 150,000 225   | 142,000 210   |                     |                     |
| 374    | 7000             | 6 30             | 185,000 295   | 181,000 290   | 178,000 285   | 173,000 280   | 169,000 270   | 160,000 255   | 151,000 240   |                     |                     |
| 401    | 7500             | 7 22             |   | 197,000 365   | 193,000 365   | 190,000 350   | 186,000 345   | 178,000 330   | 169,000 310   |                     |                     |
| 428    | 8000             | 8 22             |   | 212,000 445   | 209,000 440   | 206,000 430   | 202,000 425   | 195,000 410   | 187,000 395   |                     |                     |
| 455    | 8500             | 9 28             |   |   | 224,000 530   | 221,000 525   | 218,000 520   | 211,000 505   | 204,000 485   |                     |                     |
| 481    | 9000             | 10 40            |   |   | 239,000 635   | 237,000 630   | 234,000 625   | 228,000 610   | 221,000 590   |                     |                     |
| 508    | 9500             | 11 60            |   |   |   | 253,000 745   | 249,000 740   | 244,000 725   | 238,000 705   |                     |                     |
| 535    | 10000            | 12 84            |   |   |   |   | 264,000 870   | 260,000 855   | 254,000 835   |                     |                     |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 3 1/2" Water 2.02 ozs. per sq. inch | Static Pressure 4" Water 2.31 ozs. per sq. inch     | Static Pressure 4 1/2" Water 2.89 ozs. per sq. inch | Static Pressure 5" Water 3.47 ozs. per sq. inch     | Static Pressure 5 1/2" Water 4.05 ozs. per sq. inch | Static Pressure 6" Water 4.63 ozs. per sq. inch     | Static Pressure 6 1/2" Water 5.2 ozs. per sq. inch  |                     |                     |
| 294    | 5500             | 3 89             | 82,800 80   |   |   |   |   |   |   |                     |                     |
| 308    | 5750             | 4 25             | 92,800 96   | 83,000 86   |   |   |   |   |   |                     |                     |
| 321    | 6000             | 4 62             | 103,000 115   | 93,300 96   |   |   |   |   |   |                     |                     |
| 334    | 6250             | 5 01             | 113,000 140   | 103,000 125   |   |   |   |   |   |                     |                     |
| 348    | 6500             | 5 43             | 121,000 165   | 115,000 150   | 96,500 130  |   |   |   |   |                     |                     |
| 361    | 6750             | 5 85             | 131,000 190   | 123,000 175   | 107,000 155   |   |   |   |   |                     |                     |
| 374    | 7000             | 6 30             | 140,000 220   | 133,000 205   | 116,000 180   | 99,300 155  |   |   |   |                     |                     |
| 401    | 7500             | 7 22             | 159,000 290   | 152,000 270   | 135,000 240   | 119,000 210   | 103,000 180   |   |   |                     |                     |
| 428    | 8000             | 8 22             | 178,000 370   | 170,000 355   | 154,000 315   | 139,000 280   | 125,000 255   | 109,000 210   |   |                     |                     |
| 455    | 8500             | 9 28             | 197,000 465   | 189,000 445   | 173,000 400   | 158,000 365   | 145,000 330   | 132,000 300   | 117,000 260   |                     |                     |
| 481    | 9000             | 10 40            | 214,000 570   | 207,000 550   | 192,000 505   | 177,000 460   | 165,000 420   | 153,000 390   | 140,000 360   |                     |                     |
| 508    | 9500             | 11 60            | 232,000 685   | 225,000 670   | 211,000 625   | 196,000 575   | 183,000 530   | 172,000 490   | 161,000 460   |                     |                     |
| 535    | 10000            | 12 84            | 248,000 815   | 242,000 795   | 230,000 755   | 216,000 700   | 202,000 650   | 190,000 605   | 180,000 570   |                     |                     |

Double Inlet

**No. 14 Multivane Fan — Design 3**

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed<br>F.P.M. | S.N.D.<br>in<br>inches | Volume<br>C.F.M.   | H. P. | Volume<br>C.F.M.   | H. P. | Volume<br>C.F.M.   | H. P. | Volume<br>C.F.M.   | H. P. | Volume<br>C.F.M.   | H. P. | Volume<br>C.F.M.   | H. P. | Volume<br>C.F.M.   | H. P. |
|--------|---------------------|------------------------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|
|        |                     |                        | Static Pressure<br>1/4" Water<br>.0722 ozs. per<br>sq. inch  |       | Static Pressure<br>1/4" Water<br>.145 ozs. per<br>sq. inch |       | Static Pressure<br>3/4" Water<br>.217 ozs. per<br>sq. inch |       | Static Pressure<br>1/2" Water<br>.289 ozs. per<br>sq. inch |       | Static Pressure<br>3/4" Water<br>.361 ozs. per<br>sq. inch |       | Static Pressure<br>3/4" Water<br>.434 ozs. per<br>sq. inch   |       | Static Pressure<br>7/8" Water<br>.506 ozs. per<br>sq. inch |       |
| 49     | 1000                | 0 1284                 | 16,100   | 0 49  |  |       |  |       |  |       |  |       |  |       |  |       |
| 59     | 1200                | 0 185                  | 26,100   | 1 20  |  |       |  |       |  |       |  |       |  |       |  |       |
| 69     | 1400                | 0 252                  | 35,000   | 2 20  |  |       |  |       |  |       |  |       |  |       |  |       |
| 78     | 1600                | 0 329                  | 43,800   | 3 05  | 29,900   | 2 40  |  |       |  |       |  |       |  |       |  |       |
| 88     | 1800                | 0 412                  | 52,200   | 5 5   | 41,300   | 4 25  | 32,700   | 3 35  |  |       |  |       |  |       |  |       |
| 98     | 2000                | 0 511                  | 60,000   | 7 9   | 50,100   | 6 5   | 42,100   | 5 3   | 32,200   | 3 95  |  |       |  |       |  |       |
| 105    | 2200                | 0 621                  | 67,500   | 10 5  | 59,400   | 9 4   | 51,400   | 7 9   | 42,200   | 6 1   |  |       |  |       |  |       |
| 118    | 2400                | 0 740                  | 74,900   | 14    | 67,700   | 13 0  | 60,300   | 11    | 52,100   | 9 5   | 45,500   | 8 1   |  |       |  |       |
| 128    | 2600                | 0 868                  | 82,000   | 18    | 76,000   | 17 0  | 68,600   | 15    | 60,900   | 13    | 55,000   | 11 5  | 49,400   | 10 5  |  |       |
| 137    | 2800                | 1 01                   | 83,700   | 21 5  | 77,200   | 20    | 70,600   | 18    | 64,500   | 16 5  | 58,400   | 14 5  | 53,000   | 13 0  |  |       |
| 147    | 3000                | 1 16                   | 91,100   | 27    | 85,900   | 25    | 79,000   | 23    | 73,400   | 21 5  | 66,400   | 19    | 62,100   | 17 5  |  |       |
| 157    | 3200                | 1 32                   | 98,900   | 33    | 93,500   | 31    | 87,600   | 29    | 81,400   | 27    | 76,600   | 25    | 70,100   | 23    |  |       |
| 167    | 3400                | 1 49                   |  |       | 106,000  | 40    | 101,000  | 38    | 96,200   | 36    | 90,600   | 34    | 85,200   | 32    | 79,600   | 29    |
| 177    | 3600                | 1 67                   |  |       | 113,000  | 48    | 109,000  | 46    | 105,000  | 44    | 99,200   | 42    | 93,500   | 40    | 87,900   | 37    |
| 186    | 3800                | 1 86                   |  |       |  |       | 116,000  | 56    | 112,000  | 54    | 108,000  | 50    | 103,000  | 48    | 96,800   | 46    |
| 196    | 4000                | 2 01                   |  |       |  |       | 124,000  | 66    | 120,000  | 62    | 116,000  | 60    | 111,000  | 58    | 106,000  | 56    |
| 206    | 4200                | 2 27                   |  |       |  |       | 131,000  | 76    | 128,000  | 74    | 124,000  | 72    | 120,000  | 68    | 115,000  | 66    |
| 216    | 4400                | 2 49                   |  |       |  |       | 139,000  | 88    | 135,000  | 86    | 132,000  | 84    | 128,000  | 82    | 123,000  | 78    |
| 226    | 4600                | 2 72                   |  |       |  |       |  |       | 142,000  | 98    | 139,000  | 96    | 135,000  | 94    | 131,000  | 92    |
| 235    | 4800                | 2 96                   |  |       |  |       |  |       | 150,000  | 115   | 146,000  | 110   | 143,000  | 110   | 140,000  | 105   |
| 245    | 5000                | 3 21                   |  |       |  |       |  |       | 157,000  | 130   | 154,000  | 125   | 151,000  | 125   | 147,000  | 120   |
| 257    | 5250                | 3 54                   |  |       |  |       |  |       | 166,000  | 150   | 163,000  | 150   | 160,000  | 145   | 157,000  | 145   |
| 270    | 5500                | 3 89                   |  |       |  |       |  |       |  |       | 172,000  | 170   | 170,000  | 170   | 166,000  | 165   |
| 282    | 5750                | 4 25                   |  |       |  |       |  |       |  |       | 181,000  | 195   | 179,000  | 195   | 175,000  | 190   |
| R.P.M. | Tip Speed<br>F.P.M. | S.N.D.<br>in<br>inches | Static Pressure<br>1/4" Water<br>.578 ozs. per<br>sq. inch   |       | Static Pressure<br>1/4" Water<br>.723 ozs. per<br>sq. inch |       | Static Pressure<br>1/4" Water<br>.878 ozs. per<br>sq. inch |       | Static Pressure<br>1/4" Water<br>1.01 ozs. per<br>sq. inch |       | Static Pressure<br>2" Water<br>1.16 ozs. per<br>sq. inch   |       | Static Pressure<br>2 1/2" Water<br>1.45 ozs. per<br>sq. inch |       | Static Pressure<br>3" Water<br>1.73 ozs. per<br>sq. inch   |       |
| 147    | 3000                | 1 16                   | 55,200   | 15 5  |  |       |  |       |  |       |  |       |  |       |  |       |
| 157    | 3200                | 1 32                   | 65,000   | 21    | 54,200   | 17 5  |  |       |  |       |  |       |  |       |  |       |
| 167    | 3400                | 1 49                   | 73,600   | 27    | 64,100   | 23 5  |  |       |  |       |  |       |  |       |  |       |
| 177    | 3600                | 1 67                   | 82,500   | 34    | 72,100   | 30    | 65,400   | 27    |  |       |  |       |  |       |  |       |
| 186    | 3800                | 1 86                   | 91,500   | 43    | 82,500   | 38    | 76,400   | 35    | 65,000   | 30    |  |       |  |       |  |       |
| 196    | 4000                | 2 01                   | 101,000  | 52    | 91,500   | 47    | 84,300   | 43    | 74,800   | 38    | 64,500   | 31    |  |       |  |       |
| 206    | 4200                | 2 27                   | 110,000  | 64    | 101,000  | 58    | 93,500   | 52    | 84,900   | 47    | 74,500   | 42    |  |       |  |       |
| 216    | 4400                | 2 49                   | 119,000  | 76    | 109,000  | 68    | 103,000  | 64    | 94,100   | 58    | 84,600   | 52    |  |       |  |       |
| 226    | 4600                | 2 72                   | 127,000  | 88    | 119,000  | 82    | 112,000  | 76    | 104,000  | 70    | 96,500   | 64    | 80,800   | 54    |  |       |
| 235    | 4800                | 2 96                   | 136,000  | 105   | 128,000  | 96    | 120,000  | 90    | 113,000  | 82    | 104,000  | 76    | 90,600   | 66    |  |       |
| 245    | 5000                | 3 21                   | 144,000  | 120   | 136,000  | 110   | 129,000  | 105   | 122,000  | 98    | 113,000  | 90    | 100,000  | 78    | 86,300   | 68    |
| 257    | 5250                | 3 54                   | 154,000  | 140   | 147,000  | 135   | 140,000  | 125   | 133,000  | 120   | 125,000  | 110   | 112,000  | 96    | 101,000  | 88    |
| 270    | 5500                | 3 89                   | 164,000  | 165   | 157,000  | 155   | 150,000  | 150   | 143,000  | 140   | 135,000  | 130   | 122,000  | 120   | 111,000  | 105   |
| 282    | 5750                | 4 25                   | 173,000  | 190   | 167,000  | 180   | 161,000  | 175   | 154,000  | 165   | 147,000  | 160   | 133,000  | 140   | 123,000  | 130   |
| 294    | 6000                | 4 62                   | 183,000  | 215   | 177,000  | 210   | 171,000  | 200   | 165,000  | 195   | 158,000  | 185   | 144,000  | 165   | 134,000  | 155   |
| 306    | 6250                | 5 01                   | 192,000  | 245   | 187,000  | 240   | 182,000  | 230   | 175,000  | 225   | 169,000  | 215   | 156,000  | 195   | 146,000  | 180   |
| 319    | 6500                | 5 43                   | 201,000  | 280   | 197,000  | 270   | 191,000  | 265   | 186,000  | 255   | 180,000  | 250   | 168,000  | 230   | 157,000  | 210   |
| 331    | 6750                | 5 85                   | 211,000  | 315   | 206,000  | 310   | 201,000  | 300   | 196,000  | 295   | 190,000  | 285   | 179,000  | 265   | 168,000  | 245   |
| 343    | 7000                | 6 30                   | 219,000  | 350   | 215,000  | 345   | 211,000  | 340   | 206,000  | 330   | 201,000  | 325   | 189,000  | 305   | 179,000  | 285   |
| 368    | 7500                | 7 22                   |  |       | 234,000  | 430   | 230,000  | 425   | 225,000  | 415   | 221,000  | 405   | 211,000  | 390   | 201,000  | 370   |
| 392    | 8000                | 8 22                   |  |       | 252,000  | 530   | 248,000  | 520   | 244,000  | 515   | 240,000  | 505   | 231,000  | 485   | 222,000  | 465   |
| 416    | 8500                | 9 28                   |  |       |  |       | 266,000  | 625   | 263,000  | 625   | 259,000  | 615   | 251,000  | 595   | 243,000  | 575   |
| 441    | 9000                | 10 40                  |  |       |  |       | 284,000  | 755   | 281,000  | 750   | 278,000  | 740   | 271,000  | 720   | 263,000  | 700   |
| 465    | 9500                | 11 60                  |  |       |  |       |  |       | 300,000  | 885   | 296,000  | 875   | 289,000  | 860   | 283,000  | 835   |
| 490    | 10000               | 12 84                  |  |       |  |       |  |       |  |       | 314,000  | 1030  | 308,000  | 1010  | 302,000  | 990   |
| R.P.M. | Tip Speed<br>F.P.M. | S.N.D.<br>in<br>inches | Static Pressure<br>3 1/4" Water<br>2.02 ozs. per<br>sq. inch |       | Static Pressure<br>4" Water<br>2.31 ozs. per<br>sq. inch   |       | Static Pressure<br>5" Water<br>2.80 ozs. per<br>sq. inch   |       | Static Pressure<br>6" Water<br>3.47 ozs. per<br>sq. inch   |       | Static Pressure<br>7" Water<br>4.05 ozs. per<br>sq. inch   |       | Static Pressure<br>8" Water<br>4.63 ozs. per<br>sq. inch     |       | Static Pressure<br>9" Water<br>5.2 ozs. per<br>sq. inch    |       |
| 270    | 5500                | 3 89                   | 98,300   | 94    |  |       |  |       |  |       |  |       |  |       |  |       |
| 282    | 5750                | 4 25                   | 110,000  | 115   | 98,500   | 105   |  |       |  |       |  |       |  |       |  |       |
| 294    | 6000                | 4 62                   | 122,000  | 140   | 111,000  | 115   |  |       |  |       |  |       |  |       |  |       |
| 306    | 6250                | 5 01                   | 131,000  | 165   | 123,000  | 150   |  |       |  |       |  |       |  |       |  |       |
| 319    | 6500                | 5 43                   | 141,000  | 195   | 136,000  | 175   | 115,000  | 155   |  |       |  |       |  |       |  |       |
| 331    | 6750                | 5 85                   | 155,000  | 225   | 146,000  | 210   | 127,000  | 180   |  |       |  |       |  |       |  |       |
| 343    | 7000                | 6 30                   | 166,000  | 260   | 157,000  | 245   | 138,000  | 215   | 118,000  | 180   |  |       |  |       |  |       |
| 368    | 7500                | 7 22                   | 189,000  | 345   | 180,000  | 320   | 161,000  | 285   | 142,000  | 250   | 123,000  | 210   |  |       |  |       |
| 392    | 8000                | 8 22                   | 212,000  | 440   | 201,000  | 420   | 183,000  | 370   | 166,000  | 330   | 149,000  | 300   | 129,000  | 250   |  |       |
| 416    | 8500                | 9 28                   | 234,000  | 555   | 224,000  | 530   | 205,000  | 475   | 188,000  | 430   | 172,000  | 390   | 157,000  | 355   | 139,000  | 310   |
| 441    | 9000                | 10 40                  | 255,000  | 675   | 246,000  | 655   | 227,000  | 600   | 211,000  | 545   | 196,000  | 500   | 181,000  | 465   | 166,000  | 425   |
| 465    | 9500                | 11 60                  | 276,000  | 815   | 267,000  | 795   | 251,000  | 740   | 233,000  | 680   | 217,000  | 625   | 205,000  | 585   | 191,000  | 545   |
| 490    | 10000               | 12 84                  | 295,000  | 970   | 288,000  | 945   | 273,000  | 895   | 256,000  | 830   | 240,000  | 770   | 226,000  | 720   | 214,000  | 675   |

Double Inlet

## No. 15 Multivane Fan — Design 3

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M. H. P. Static Pressure 1/2" Water .0722 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 3/4" Water .145 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1" Water .217 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1 1/4" Water .289 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1 1/2" Water .361 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1 3/4" Water .434 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 2" Water .506 ozs. per sq. inch |
|--------|------------------|------------------|--|---|---|---|---|---|---|
| 45     | 1000             | 0.1284           | 18,900   | 0.58  |   |   |   |   |   |
| 54     | 1200             | 0.185            | 30,500   | 1.4   |   |   |   |   |   |
| 63     | 1400             | 0.252            | 40,900   | 2.6   |   |   |   |   |   |
| 72     | 1600             | 0.329            | 51,100   | 4.3   | 35,100  | 2.8   |   |   |   |
| 81     | 1800             | 0.412            | 61,100   | 6.5   | 48,300  | 5.0   | 38,300  | 3.9   |   |
| 91     | 2000             | 0.514            | 70,100   | 9.2   | 59,000  | 7.7   | 49,300  | 6.2   | 37,800  |
| 99     | 2200             | 0.621            | 79,000   | 12.5  | 69,600  | 11  | 60,100  | 9.3   | 49,400  |
| 109    | 2400             | 0.740            | 87,700   | 16.5  | 79,400  | 15  | 70,600  | 13.0  | 61,100  |
| 118    | 2600             | 0.868            | 96,000   | 21.5  | 89,100  | 20  | 80,500  | 17.5  | 71,400  |
| 127    | 2800             | 1.01             | 98,200   | 25  | 98,200  | 25  | 90,500  | 23  | 82,800  |
| 136    | 3000             | 1.16             | 107,000  | 32  | 107,000   | 32  | 101,000   | 30  | 92,600  |
| 145    | 3200             | 1.32             | 116,000  | 39  | 116,000   | 39  | 110,000   | 37  | 103,000   |
| 154    | 3400             | 1.49             | 125,000  | 47  | 125,000   | 47  | 118,000   | 45  | 113,000   |
| 163    | 3600             | 1.67             | 133,000  | 56  | 133,000   | 56  | 128,000   | 54  | 123,000   |
| 172    | 3800             | 1.86             |  |   | 136,000   | 64  | 132,000   | 62  | 126,000   |
| 181    | 4000             | 2.01             |  |   | 145,000   | 76  | 141,000   | 74  | 135,000   |
| 190    | 4200             | 2.27             |  |   | 154,000   | 90  | 150,000   | 86  | 145,000   |
| 199    | 4400             | 2.49             |  |   | 162,000   | 105   | 158,000   | 100   | 154,000   |
| 208    | 4600             | 2.72             |  |   |   |   | 167,000   | 115   | 163,000   |
| 217    | 4800             | 2.96             |  |   |   |   | 176,000   | 135   | 172,000   |
| 226    | 5000             | 3.21             |  |   |   |   | 184,000   | 150   | 181,000   |
| 238    | 5250             | 3.54             |  |   |   |   | 191,000   | 175   | 191,000   |
| 249    | 5500             | 3.89             |  |   |   |   | 202,000   | 200   | 202,000   |
| 260    | 5750             | 4.25             |  |   |   |   | 212,000   | 230   | 212,000   |
| 136    | 3000             | 1.16             | 64,700   | 18.5  |   |   |   |   |   |
| 145    | 3200             | 1.32             | 76,200   | 24.5  | 63,500  | 20.5  |   |   |   |
| 154    | 3400             | 1.49             | 86,400   | 32  | 75,100  | 27  |   |   |   |
| 163    | 3600             | 1.67             | 96,700   | 40  | 84,600  | 35  | 76,500  | 31  |   |
| 172    | 3800             | 1.86             | 107,000  | 50  | 96,800  | 45  | 89,400  | 41  | 76,200  |
| 181    | 4000             | 2.01             | 118,000  | 62  | 107,000   | 54  | 98,900  | 50  | 87,700  |
| 190    | 4200             | 2.27             | 129,000  | 74  | 118,000   | 68  | 110,000   | 62  | 99,500  |
| 199    | 4400             | 2.49             | 139,000  | 88  | 128,000   | 80  | 121,000   | 74  | 110,000   |
| 208    | 4600             | 2.72             | 149,000  | 105   | 139,000   | 96  | 131,000   | 90  | 122,000   |
| 217    | 4800             | 2.96             | 159,000  | 120   | 150,000   | 110   | 141,000   | 105   | 132,000   |
| 226    | 5000             | 3.21             | 169,000  | 140   | 160,000   | 130   | 151,000   | 125   | 143,000   |
| 238    | 5250             | 3.54             | 181,000  | 165   | 172,000   | 155   | 164,000   | 145   | 153,000   |
| 249    | 5500             | 3.89             | 192,000  | 190   | 184,000   | 185   | 176,000   | 175   | 165,000   |
| 260    | 5750             | 4.25             | 203,000  | 220   | 196,000   | 215   | 188,000   | 205   | 177,000   |
| 272    | 6000             | 4.62             | 214,000  | 255   | 208,000   | 245   | 201,000   | 235   | 188,000   |
| 283    | 6250             | 5.01             | 226,000  | 290   | 219,000   | 280   | 213,000   | 270   | 205,000   |
| 294    | 6500             | 5.43             | 236,000  | 325   | 230,000   | 320   | 224,000   | 310   | 217,000   |
| 305    | 6750             | 5.85             | 247,000  | 370   | 241,000   | 360   | 235,000   | 350   | 230,000   |
| 317    | 7000             | 6.30             | 257,000  | 410   | 252,000   | 405   | 247,000   | 400   | 241,000   |
| 340    | 7500             | 7.22             |  |   | 275,000   | 505   | 269,000   | 495   | 264,000   |
| 362    | 8000             | 8.22             |  |   | 295,000   | 620   | 291,000   | 610   | 285,000   |
| 384    | 8500             | 9.28             |  |   |   |   | 312,000   | 735   | 308,000   |
| 407    | 9000             | 10.40            |  |   |   |   | 332,000   | 885   | 329,000   |
| 430    | 9500             | 11.60            |  |   |   |   |   |   | 352,000   |
| 452    | 10000            | 12.84            |  |   |   |   |   |   | 368,000   |
| 249    | 5500             | 3.89             | 115,000  | 110   |   |   |   |   |   |
| 260    | 5750             | 4.25             | 129,000  | 130   | 116,000   | 120   |   |   |   |
| 272    | 6000             | 4.62             | 143,000  | 160   | 130,000   | 135   |   |   |   |
| 283    | 6250             | 5.01             | 157,000  | 195   | 144,000   | 175   |   |   |   |
| 294    | 6500             | 5.43             | 169,000  | 225   | 160,000   | 205   | 134,000   | 180   |   |
| 305    | 6750             | 5.85             | 182,000  | 265   | 171,000   | 245   | 148,000   | 215   |   |
| 317    | 7000             | 6.30             | 195,000  | 305   | 185,000   | 285   | 162,000   | 250   | 138,000   |
| 340    | 7500             | 7.22             | 222,000  | 405   | 211,000   | 380   | 188,000   | 335   | 166,000   |
| 362    | 8000             | 8.22             | 248,000  | 515   | 236,000   | 490   | 214,000   | 435   | 194,000   |
| 384    | 8500             | 9.28             | 271,000  | 650   | 263,000   | 620   | 240,000   | 560   | 220,000   |
| 407    | 9000             | 10.40            | 298,000  | 790   | 288,000   | 765   | 267,000   | 700   | 247,000   |
| 430    | 9500             | 11.60            | 323,000  | 955   | 313,000   | 930   | 294,000   | 865   | 273,000   |
| 452    | 10000            | 12.84            | 345,000  | 1130  | 337,000   | 1110  | 320,000   | 1050  | 300,000   |
| 249    | 5500             | 3.89             | 115,000  | 110   |   |   |   |   |   |
| 260    | 5750             | 4.25             | 129,000  | 130   |   |   |   |   |   |
| 272    | 6000             | 4.62             | 143,000  | 160   |   |   |   |   |   |
| 283    | 6250             | 5.01             | 157,000  | 195   |   |   |   |   |   |
| 294    | 6500             | 5.43             | 169,000  | 225   |   |   |   |   |   |
| 305    | 6750             | 5.85             | 182,000  | 265   |   |   |   |   |   |
| 317    | 7000             | 6.30             | 195,000  | 305   |   |   |   |   |   |
| 340    | 7500             | 7.22             | 222,000  | 405   |   |   |   |   |   |
| 362    | 8000             | 8.22             | 248,000  | 515   |   |   |   |   |   |
| 384    | 8500             | 9.28             | 271,000  | 650   |   |   |   |   |   |
| 407    | 9000             | 10.40            | 298,000  | 790   |   |   |   |   |   |
| 430    | 9500             | 11.60            | 323,000  | 955   |   |   |   |   |   |
| 452    | 10000            | 12.84            | 345,000  | 1130  |   |   |   |   |   |
| 249    | 5500             | 3.89             | 115,000  | 110   |   |   |   |   |   |
| 260    | 5750             | 4.25             | 129,000  | 130   |   |   |   |   |   |
| 272    | 6000             | 4.62             | 143,000  | 160   |   |   |   |   |   |
| 283    | 6250             | 5.01             | 157,000  | 195   |   |   |   |   |   |
| 294    | 6500             | 5.43             | 169,000  | 225   |   |   |   |   |   |
| 305    | 6750             | 5.85             | 182,000  | 265   |   |   |   |   |   |
| 317    | 7000             | 6.30             | 195,000  | 305   |   |   |   |   |   |
| 340    | 7500             | 7.22             | 222,000  | 405   |   |   |   |   |   |
| 362    | 8000             | 8.22             | 248,000  | 515   |   |   |   |   |   |
| 384    | 8500             | 9.28             | 271,000  | 650   |   |   |   |   |   |
| 407    | 9000             | 10.40            | 298,000  | 790   |   |   |   |   |   |
| 430    | 9500             | 11.60            | 323,000  | 955   |   |   |   |   |   |
| 452    | 10000            | 12.84            | 345,000  | 1130  |   |   |   |   |   |

Double Inlet

## No. 16 Multivane Fan — Design 3

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M. H. P. Static Pressure 1/2" Water .0722 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1/4" Water .145 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 3/8" Water .217 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1/2" Water .289 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 5/8" Water .361 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 3/4" Water .434 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 7/8" Water .506 ozs. per sq. inch |
|--------|------------------|------------------|--|---|---|---|---|---|---|
| 42     | 1000             | 0 1281           | 21,900 0 67  |   |   |   |   |   |   |
| 50     | 1200             | 0 185            | 35,400 1 6   |   |   |   |   |   |   |
| 59     | 1400             | 0 252            | 47,500 3 0   |   |   |   |   |   |   |
| 67     | 1600             | 0 329            | 59,600 5 0   | 40,700 3 3  |   |   |   |   |   |
| 76     | 1800             | 0 412            | 71,000 7 5   | 56,100 5 8  | 44,500 4 55   |   |   |   |   |
| 84     | 2000             | 0 511            | 81,600 10 5  | 68,500 8 9  | 57,200 7 2  | 43,900 5 3  |   |   |   |
| 93     | 2200             | 0 621            | 91,700 14 5  | 80,800 13 0   | 69,800 11 0   | 57,400 8 7  | 61,800 11 0   |   |   |
| 101    | 2400             | 0 740            | 102,000 19 5   | 92,100 17 5   | 82,000 15 5   | 70,900 13 0   | 82,800 18 0   | 74,700 16 0   | 67,200 11 5   |
| 109    | 2600             | 0 868            | 111,000 21 5   | 103,000 23  | 93,300 20 5   | 82,800 18 0   | 96,100 24 5   | 87,600 22 5   | 79,360 19 5   |
| 118    | 2800             | 1 01             |  | 114,000 29  | 105,000 27  |   |   |   |   |
| 126    | 3000             | 1 16             |  | 124,000 37  | 117,000 34  |   |   |   |   |
| 134    | 3200             | 1 32             |  | 135,000 45  | 127,000 43  |   |   |   |   |
| 143    | 3400             | 1 49             |  | 145,000 54  | 137,000 52  | 131,000 49  | 123,000 47  | 116,000 43  | 108,000 40  |
| 151    | 3600             | 1 67             |  | 154,000 66  | 149,000 64  | 142,000 60  | 135,000 58  | 127,000 54  | 120,000 50  |
| 160    | 3800             | 1 86             |  |   | 158,000 74  | 153,000 72  | 146,000 70  | 139,000 66  | 132,000 62  |
| 168    | 4000             | 2 01             |  |   | 169,000 88  | 163,000 86  | 157,000 82  | 151,000 80  | 144,000 76  |
| 176    | 4200             | 2 27             |  |   | 179,000 105   | 174,000 100   | 168,000 98  | 162,000 94  | 156,000 90  |
| 185    | 4400             | 2 49             |  |   | 188,000 120   | 184,000 115   | 179,000 115   | 174,000 110   | 167,000 105   |
| 193    | 4600             | 2 72             |  |   |   | 193,000 135   | 189,000 130   | 184,000 130   | 179,000 125   |
| 202    | 4800             | 2 96             |  |   |   | 204,000 155   | 199,000 150   | 195,000 150   | 190,000 145   |
| 210    | 5000             | 3 21             |  |   |   | 214,000 175   | 210,000 170   | 205,000 170   | 200,000 165   |
| 220    | 5250             | 3 54             |  |   |   | 225,000 205   | 222,000 200   | 218,000 200   | 214,000 195   |
| 231    | 5500             | 3 89             |  |   |   |   | 234,000 230   | 231,000 230   | 226,000 225   |
| 242    | 5750             | 4 25             |  |   |   |   | 246,000 270   | 243,000 265   | 238,000 260   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 ozs. per sq. inch                        | Static Pressure 1 1/4" Water .723 ozs. per sq. inch                   | Static Pressure 1 1/2" Water .878 ozs. per sq. inch                   | Static Pressure 1 3/4" Water 1.01 ozs. per sq. inch                   | Static Pressure 2" Water 1.16 ozs. per sq. inch                       | Static Pressure 2 1/2" Water 1.45 ozs. per sq. inch                   | Static Pressure 3" Water 1.73 ozs. per sq. inch                       |
| 126    | 3000             | 1 16             | 75,100 21 5  |   |   |   |   |   |   |
| 134    | 3200             | 1 32             | 88,500 29  | 73,700 23 5   |   |   |   |   |   |
| 143    | 3400             | 1 49             | 100,000 37   | 87,300 32   |   |   |   |   |   |
| 151    | 3600             | 1 67             | 112,000 46   | 98,100 41   | 88,900 36   |   |   |   |   |
| 160    | 3800             | 1 86             | 125,000 58   | 112,000 52  | 104,000 47  | 88,500 40   |   |   |   |
| 168    | 4000             | 2 01             | 137,000 72   | 124,000 64  | 115,000 58  | 102,000 52  | 87,600 43   |   |   |
| 176    | 4200             | 2 27             | 150,000 86   | 137,000 78  | 127,000 72  | 116,000 64  | 101,000 56  |   |   |
| 185    | 4400             | 2 49             | 162,000 105  | 149,000 94  | 140,000 86  | 128,000 78  | 115,000 70  |   |   |
| 193    | 4600             | 2 72             | 173,000 120  | 162,000 110   | 152,000 105   | 141,000 94  | 131,000 88  | 110,000 74  |   |
| 202    | 4800             | 2 96             | 185,000 140  | 174,000 130   | 164,000 120   | 154,000 115   | 142,000 105   | 123,000 90  |   |
| 210    | 5000             | 3 21             | 196,000 160  | 188,000 150   | 176,000 145   | 166,000 135   | 154,000 120   | 137,000 105   | 117,000 92  |
| 220    | 5250             | 3 54             | 210,000 190  | 200,000 180   | 190,000 170   | 181,000 160   | 170,000 150   | 152,000 130   | 137,000 120   |
| 231    | 5500             | 3 89             | 223,000 220  | 214,000 210   | 205,000 205   | 195,000 190   | 184,000 180   | 166,000 160   | 152,000 145   |
| 242    | 5750             | 4 25             | 236,000 255  | 228,000 245   | 219,000 235   | 209,000 225   | 200,000 215   | 181,000 190   | 167,000 175   |
| 252    | 6000             | 4 62             | 249,000 295  | 241,000 285   | 233,000 275   | 224,000 265   | 215,000 255   | 197,000 225   | 183,000 215   |
| 263    | 6250             | 5 01             | 262,000 340  | 254,000 325   | 247,000 315   | 238,000 305   | 230,000 295   | 211,000 265   | 198,000 245   |
| 273    | 6500             | 5 43             | 274,000 380  | 268,000 370   | 260,000 360   | 252,000 350   | 244,000 340   | 228,000 315   | 213,000 285   |
| 284    | 6750             | 5 85             | 286,000 430  | 280,000 420   | 273,000 410   | 267,000 400   | 258,000 385   | 243,000 360   | 229,000 335   |
| 294    | 7000             | 6 30             | 298,000 480  | 293,000 470   | 287,000 465   | 280,000 450   | 273,000 440   | 258,000 415   | 244,000 390   |
| 315    | 7500             | 7 22             |  | 319,000 590   | 312,000 575   | 306,000 565   | 300,000 555   | 287,000 530   | 273,000 500   |
| 336    | 8000             | 8 22             |  | 342,000 720   | 337,000 710   | 332,000 700   | 326,000 685   | 315,000 660   | 302,000 635   |
| 357    | 8500             | 9 28             |  |   | 361,000 850   | 358,000 850   | 352,000 835   | 341,000 810   | 330,000 785   |
| 378    | 9000             | 10 40            |  |   | 386,000 1030  | 382,000 1020  | 378,000 1010  | 368,000 985   | 358,000 955   |
| 397    | 9500             | 11 60            |  |   |   | 408,000 1200  | 403,000 1190  | 393,000 1170  | 384,000 1140  |
| 420    | 10000            | 12 84            |  |   |   |   | 427,000 1400  | 419,000 1380  | 410,000 1350  |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 3 1/2" Water 2.02 ozs. per sq. inch                    | Static Pressure 4" Water 2.31 ozs. per sq. inch                       | Static Pressure 5" Water 2.89 ozs. per sq. inch                       | Static Pressure 6" Water 3.47 ozs. per sq. inch                       | Static Pressure 7" Water 4.05 ozs. per sq. inch                       | Static Pressure 8" Water 4.63 ozs. per sq. inch                       | Static Pressure 9" Water 5.2 ozs. per sq. inch                        |
| 231    | 5500             | 3 89             | 134,000 130  |   |   |   |   |   |   |
| 242    | 5750             | 4 25             | 150,000 155  | 134,000 140   |   |   |   |   |   |
| 252    | 6000             | 4 62             | 166,000 190  | 151,000 155   |   |   |   |   |   |
| 263    | 6250             | 5 01             | 182,000 225  | 167,000 205   |   |   |   |   |   |
| 273    | 6500             | 5 43             | 196,000 265  | 185,000 240   | 156,000 210   |   |   |   |   |
| 284    | 6750             | 5 85             | 211,000 305  | 199,000 285   | 172,000 245   |   |   |   |   |
| 294    | 7000             | 6 30             | 226,000 355  | 214,000 335   | 188,000 290   | 160,000 245   |   |   |   |
| 315    | 7500             | 7 22             | 257,000 470  | 245,000 440   | 219,000 390   | 193,000 340   | 167,000 290   |   |   |
| 336    | 8000             | 8 22             | 288,000 600  | 271,000 570   | 248,000 505   | 225,000 455   | 202,000 410   | 176,000 340   |   |
| 357    | 8500             | 9 28             | 318,000 750  | 305,000 720   | 279,000 650   | 256,000 585   | 234,000 535   | 213,000 485   | 189,000 420   |
| 378    | 9000             | 10 40            | 346,000 915  | 334,000 890   | 310,000 815   | 286,000 740   | 266,000 680   | 246,000 630   | 226,000 580   |
| 397    | 9500             | 11 60            | 375,000 1110   | 364,000 1080  | 341,000 1010  | 317,000 925   | 296,000 855   | 278,000 795   | 260,000 745   |
| 420    | 10000            | 12 84            | 401,000 1320   | 391,000 1280  | 371,000 1220  | 348,000 1130  | 326,000 1050  | 307,000 980   | 291,000 915   |

Double Inlet

## No. 17 Multivane Fan — Design 3

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.                                       | H. P.   | Volume C.F.M.                                       | H. P.   | Volume C.F.M.                                     | H. P.   | Volume C.F.M.                                     | H. P. | Volume C.F.M. | H. P. | Volume C.F.M. | H. P. | Volume C.F.M. | H. P. |
|--------|------------------|------------------|---|---|---|---|---|---|---|-------|---------------|-------|---------------|-------|---------------|-------|
|        |                  |                  | Static Pressure 1/2" Water .0722 ozs. per sq. inch  | Static Pressure 1/2" Water .145 ozs. per sq. inch   | Static Pressure 1/2" Water .217 ozs. per sq. inch   | Static Pressure 1/2" Water .289 ozs. per sq. inch   | Static Pressure 1/2" Water .361 ozs. per sq. inch | Static Pressure 1/2" Water .434 ozs. per sq. inch   | Static Pressure 1/2" Water .506 ozs. per sq. inch |       |               |       |               |       |               |       |
| 39     | 1000             | 0 1284           | 25,200  | 0.77  |   |   |   |   |   |       |               |       |               |       |               |       |
| 47     | 1200             | 0 185            | 40,700  | 1.85  |   |   |   |   |   |       |               |       |               |       |               |       |
| 55     | 1400             | 0 252            | 54,000  | 3.45  |   |   |   |   |   |       |               |       |               |       |               |       |
| 63     | 1600             | 0 329            | 68,500  | 5.7   | 46,800  | 3.8   |   |   |   |       |               |       |               |       |               |       |
| 71     | 1800             | 0 412            | 81,500  | 8.7   | 64,500  | 6.7   | 51,000  | 5.2   |   |       |               |       |               |       |               |       |
| 78     | 2000             | 0 514            | 93,600  | 12.5  | 78,600  | 10.0  | 65,700  | 8.3   | 50,400  | 6.1   |               |       |               |       |               |       |
| 86     | 2200             | 0 621            | 105,000   | 16.5  | 92,800  | 14.5  | 80,200  | 12.5  | 65,900  | 10.0  |               |       |               |       |               |       |
| 94     | 2400             | 0 740            | 117,000   | 22  | 106,000   | 20  | 94,100  | 17.5  | 81,400  | 15.0  | 71,000        | 12.5  |               |       |               |       |
| 102    | 2600             | 0 868            | 128,000   | 28  | 119,000   | 26  | 107,000   | 23.5  | 95,000  | 20.5  | 85,000        | 18.5  | 77,100        | 16.5  |               |       |
| 110    | 2800             | 1 01             |   |   | 131,000   | 31  | 121,000   | 31  | 110,000   | 28    | 101,000       | 26    | 91,000        | 22.5  | 82,900        | 20.5  |
| 118    | 3000             | 1 16             |   |   | 143,000   | 42  | 134,000   | 40  | 123,000   | 36    | 115,000       | 33    | 104,000       | 30    | 97,000        | 28    |
| 126    | 3200             | 1 32             |   |   | 155,000   | 52  | 146,000   | 49  | 137,000   | 46    | 127,000       | 42    | 120,000       | 39    | 109,000       | 36    |
| 133    | 3400             | 1 49             |   |   | 166,000   | 64  | 158,000   | 60  | 150,000   | 56    | 142,000       | 54    | 133,000       | 50    | 124,000       | 46    |
| 141    | 3600             | 1 67             |   |   | 177,000   | 76  | 171,000   | 72  | 163,000   | 70    | 155,000       | 66    | 146,000       | 62    | 137,000       | 58    |
| 149    | 3800             | 1 86             |   |   |   |   | 182,000   | 86  | 175,000   | 84    | 168,000       | 80    | 160,000       | 76    | 151,000       | 72    |
| 157    | 4000             | 2 01             |   |   |   |   | 194,000   | 100   | 187,000   | 98    | 181,000       | 94    | 173,000       | 90    | 165,000       | 86    |
| 165    | 4200             | 2 27             |   |   | 205,000   | 120   |   |   | 199,000   | 115   | 193,000       | 110   | 187,000       | 110   | 179,000       | 105   |
| 173    | 4400             | 2 49             |   |   | 216,000   | 135   |   |   | 211,000   | 135   | 206,000       | 130   | 199,000       | 125   | 192,000       | 120   |
| 181    | 4600             | 2 72             |   |   |   |   |   |   | 222,000   | 155   | 218,000       | 150   | 211,000       | 145   | 205,000       | 140   |
| 188    | 4800             | 2 96             |   |   |   |   |   |   | 234,000   | 175   | 229,000       | 175   | 224,000       | 170   | 218,000       | 165   |
| 196    | 5000             | 3 21             |   |   |   |   |   |   | 245,000   | 200   | 241,000       | 200   | 236,000       | 195   | 230,000       | 190   |
| 206    | 5250             | 3 54             |   |   |   |   |   |   | 259,000   | 235   | 255,000       | 230   | 251,000       | 225   | 245,000       | 225   |
| 216    | 5500             | 3 89             |   |   |   |   |   |   |   |       | 269,000       | 265   | 265,000       | 265   | 259,000       | 260   |
| 226    | 5750             | 4 25             |   |   |   |   |   |   |   |       | 283,000       | 310   | 279,000       | 305   | 274,000       | 295   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 ozs. per sq. inch     | Static Pressure 1 1/2" Water .723 ozs. per sq. inch | Static Pressure 1 3/4" Water .878 ozs. per sq. inch | Static Pressure 1 5/8" Water 1.01 ozs. per sq. inch | Static Pressure 2" Water 1.16 ozs. per sq. inch   | Static Pressure 2 1/2" Water 1.45 ozs. per sq. inch | Static Pressure 3" Water 1.73 ozs. per sq. inch   |       |               |       |               |       |               |       |
| 118    | 3000             | 1 16             | 86,300  | 24.5  |   |   |   |   |   |       |               |       |               |       |               |       |
| 126    | 3200             | 1 32             | 102,000   | 33  | 84,600  | 27  |   |   |   |       |               |       |               |       |               |       |
| 133    | 3400             | 1 49             | 115,000   | 43  | 100,000   | 36  |   |   |   |       |               |       |               |       |               |       |
| 141    | 3600             | 1 67             | 129,000   | 54  | 113,000   | 47  | 102,000   | 42  |   |       |               |       |               |       |               |       |
| 149    | 3800             | 1 86             | 143,000   | 66  | 129,000   | 60  | 119,000   | 54  | 102,000   | 54    |               |       |               |       |               |       |
| 157    | 4000             | 2 01             | 157,000   | 82  | 143,000   | 72  | 132,000   | 66  | 117,000   | 58    | 101,000       | 49    |               |       |               |       |
| 165    | 4200             | 2 27             | 172,000   | 100   | 158,000   | 90  | 146,000   | 82  | 133,000   | 74    | 116,000       | 66    |               |       |               |       |
| 173    | 4400             | 2 49             | 186,000   | 120   | 171,000   | 105   | 161,000   | 100   | 147,000   | 90    | 132,000       | 80    |               |       |               |       |
| 181    | 4600             | 2 72             | 199,000   | 110   | 186,000   | 130   | 174,000   | 120   | 162,000   | 110   | 151,000       | 100   | 126,000       | 84    |               |       |
| 188    | 4800             | 2 96             | 212,000   | 160   | 200,000   | 150   | 188,000   | 140   | 176,000   | 130   | 163,000       | 120   | 142,000       | 105   |               |       |
| 196    | 5000             | 3 21             | 225,000   | 185   | 213,000   | 175   | 202,000   | 165   | 190,000   | 155   | 176,000       | 140   | 157,000       | 125   | 135,000       | 115   |
| 206    | 5250             | 3 54             | 241,000   | 215   | 230,000   | 205   | 218,000   | 195   | 206,000   | 185   | 195,000       | 170   | 175,000       | 150   | 158,000       | 135   |
| 216    | 5500             | 3 89             | 256,000   | 255   | 245,000   | 245   | 235,000   | 235   | 224,000   | 220   | 211,000       | 205   | 191,000       | 185   | 174,000       | 165   |
| 226    | 5750             | 4 25             | 271,000   | 295   | 261,000   | 285   | 251,000   | 270   | 240,000   | 260   | 229,000       | 245   | 208,000       | 220   | 192,000       | 200   |
| 235    | 6000             | 4 62             | 285,000   | 340   | 277,000   | 325   | 268,000   | 315   | 257,000   | 305   | 247,000       | 290   | 226,000       | 260   | 210,000       | 245   |
| 245    | 6250             | 5 01             | 301,000   | 385   | 292,000   | 375   | 284,000   | 360   | 274,000   | 350   | 265,000       | 335   | 243,000       | 305   | 227,000       | 285   |
| 255    | 6500             | 5 43             | 315,000   | 435   | 307,000   | 425   | 298,000   | 415   | 290,000   | 400   | 281,000       | 390   | 262,000       | 360   | 245,000       | 330   |
| 265    | 6750             | 5 85             | 329,000   | 490   | 322,000   | 485   | 314,000   | 470   | 306,000   | 460   | 297,000       | 445   | 279,000       | 415   | 263,000       | 385   |
| 274    | 7000             | 6 30             | 343,000   | 550   | 336,000   | 540   | 330,000   | 530   | 321,000   | 520   | 313,000       | 505   | 296,000       | 475   | 280,000       | 445   |
| 294    | 7500             | 7 22             |   |   | 366,000   | 675   | 359,000   | 665   | 352,000   | 650   | 344,000       | 635   | 329,000       | 610   | 313,000       | 575   |
| 314    | 8000             | 8 22             |   |   | 393,000   | 825   | 387,000   | 815   | 381,000   | 805   | 375,000       | 785   | 361,000       | 755   | 346,000       | 730   |
| 333    | 8500             | 9 28             |   |   |   |   | 415,000   | 980   | 411,000   | 975   | 404,000       | 960   | 392,000       | 935   | 379,000       | 900   |
| 353    | 9000             | 10 40            |   |   | 443,000   | 1180  |   |   | 439,000   | 1170  | 434,000       | 1160  | 423,000       | 1130  | 411,000       | 1090  |
| 372    | 9500             | 11 60            |   |   |   |   |   |   | 469,000   | 1380  | 463,000       | 1370  | 452,000       | 1340  | 441,000       | 1300  |
| 392    | 10000            | 12 84            |   |   |   |   |   |   |   |       | 490,000       | 1610  | 481,000       | 1580  | 472,000       | 1550  |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 3 1/2" Water 2.02 ozs. per sq. inch | Static Pressure 4" Water 2.31 ozs. per sq. inch     | Static Pressure 5" Water 2.89 ozs. per sq. inch     | Static Pressure 6" Water 3.47 ozs. per sq. inch     | Static Pressure 7" Water 4.05 ozs. per sq. inch   | Static Pressure 8" Water 4.63 ozs. per sq. inch     | Static Pressure 9" Water 5.2 ozs. per sq. inch    |       |               |       |               |       |               |       |
| 216    | 5500             | 3 89             | 154,000   | 145   |   |   |   |   |   |       |               |       |               |       |               |       |
| 226    | 5750             | 4 25             | 172,000   | 175   | 154,000   | 160   |   |   |   |       |               |       |               |       |               |       |
| 235    | 6000             | 4 62             | 191,000   | 215   | 173,000   | 180   |   |   |   |       |               |       |               |       |               |       |
| 245    | 6250             | 5 01             | 209,000   | 255   | 192,000   | 235   |   |   |   |       |               |       |               |       |               |       |
| 255    | 6500             | 5 43             | 225,000   | 300   | 213,000   | 275   | 179,000   | 240   |   |       |               |       |               |       |               |       |
| 265    | 6750             | 5 85             | 242,000   | 350   | 228,000   | 330   | 198,000   | 285   |   |       |               |       |               |       |               |       |
| 274    | 7000             | 6 30             | 260,000   | 410   | 246,000   | 380   | 216,000   | 335   | 184,000   | 285   |               |       |               |       |               |       |
| 294    | 7500             | 7 22             | 295,000   | 540   | 281,000   | 505   | 251,000   | 445   | 221,000   | 390   | 192,000       | 330   |               |       |               |       |
| 314    | 8000             | 8 22             | 331,000   | 690   | 314,000   | 655   | 285,000   | 580   | 259,000   | 520   | 232,000       | 470   | 202,000       | 395   |               |       |
| 333    | 8500             | 9 28             | 365,000   | 865   | 350,000   | 830   | 320,000   | 745   | 294,000   | 675   | 269,000       | 615   | 245,000       | 555   | 217,000       | 480   |
| 353    | 9000             | 10 40            | 398,000   | 1050  | 384,000   | 1020  | 356,000   | 935   | 329,000   | 850   | 306,000       | 785   | 283,000       | 725   | 260,000       | 665   |
| 372    | 9500             | 11 60            | 430,000   | 1270  | 417,000   | 1240  | 392,000   | 1160  | 364,000   | 1060  | 339,000       | 980   | 320,000       | 915   | 298,000       | 850   |
| 392    | 10000            | 12 84            | 460,000   | 1510  | 449,000   | 1480  | 426,000   | 1400  | 400,000   | 1300  | 375,000       | 1210  | 353,000       | 1120  | 334,000       | 1050  |

Double Inlet

## No. 18 Multivane Fan — Design 3

Single Width

When Discharging Air at 65 F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.  | H. P.   | Volume C.F.M.                                       | H. P.   | Volume C.F.M.                                     | H. P.   | Volume C.F.M.                                     | H. P. | Volume C.F.M. | H. P. | Volume C.F.M. | H. P. | Volume C.F.M. | H. P. |
|--------|------------------|------------------|--|---|---|---|---|---|---|-------|---------------|-------|---------------|-------|---------------|-------|
|        |                  |                  | Static Pressure 1 1/2" Water .0722 ozs. per sq. inch | Static Pressure 1 1/2" Water .145 ozs. per sq. inch | Static Pressure 3/4" Water .217 ozs. per sq. inch   | Static Pressure 1 1/2" Water .289 ozs. per sq. inch | Static Pressure 3/4" Water .361 ozs. per sq. inch | Static Pressure 1 1/2" Water .434 ozs. per sq. inch | Static Pressure 3/4" Water .506 ozs. per sq. inch |       |               |       |               |       |               |       |
| 37     | 1000             | 0 1284           | 28,700   | 0 87  |   |   |   |   |   |       |               |       |               |       |               |       |
| 44     | 1200             | 0 185            | 46,400   | 2 10  |   |   |   |   |   |       |               |       |               |       |               |       |
| 52     | 1400             | 0 252            | 62,000   | 3 95  |   |   |   |   |   |       |               |       |               |       |               |       |
| 59     | 1600             | 0 329            | 77,900   | 6 5   | 53,100  | 4 3   |   |   |   |       |               |       |               |       |               |       |
| 66     | 1800             | 0 412            | 92,800   | 9 9   | 73,400  | 7 6   | 58,000  | 5 9   |   |       |               |       |               |       |               |       |
| 74     | 2000             | 0 514            | 107,000  | 14  | 89,400  | 11 5  | 74,800  | 9 4   | 57,300  | 7 0   |               |       |               |       |               |       |
| 81     | 2200             | 0 621            | 120,000  | 19  | 106,000   | 16 5  | 91,300  | 14 0  | 75,000  | 11 5  |               |       |               |       |               |       |
| 88     | 2400             | 0 740            | 133,000  | 25  | 120,000   | 23  | 107,000   | 20  | 92,600  | 17 0  | 80,800        | 14 5  |               |       |               |       |
| 96     | 2600             | 0 868            | 146,000  | 32  | 135,000   | 30  | 122,000   | 27  | 108,000   | 23 5  | 97,700        | 21    | 87,800        | 18 5  |               |       |
| 103    | 2800             | 1 01             |  |   | 149,000   | 38  | 137,000   | 35  | 126,000   | 32    | 115,000       | 29    | 104,000       | 26    | 94,200        | 23 5  |
| 110    | 3000             | 1 16             |  |   | 162,000   | 48  | 153,000   | 45  | 140,000   | 41    | 130,000       | 38    | 118,000       | 34    | 110,000       | 31    |
| 118    | 3200             | 1 32             |  |   | 176,000   | 60  | 166,000   | 56  | 156,000   | 52    | 145,000       | 48    | 136,000       | 45    | 125,000       | 41    |
| 125    | 3400             | 1 49             |  |   | 189,000   | 72  | 179,000   | 68  | 171,000   | 64    | 161,000       | 60    | 152,000       | 56    | 142,000       | 52    |
| 132    | 3600             | 1 67             |  |   | 202,000   | 86  | 194,000   | 82  | 186,000   | 78    | 176,000       | 74    | 166,000       | 70    | 156,000       | 66    |
| 140    | 3800             | 1 86             |  |   |   |   | 207,000   | 98  | 200,000   | 94    | 191,000       | 90    | 183,000       | 86    | 172,000       | 80    |
| 147    | 4000             | 2 01             |  |   |   |   | 220,000   | 115   | 213,000   | 110   | 205,000       | 110   | 197,000       | 105   | 188,000       | 98    |
| 154    | 4200             | 2 27             |  |   |   |   | 233,000   | 135   | 227,000   | 130   | 220,000       | 125   | 212,000       | 120   | 204,000       | 120   |
| 162    | 4400             | 2 49             |  |   |   |   | 246,000   | 155   | 240,000   | 155   | 231,000       | 150   | 227,000       | 145   | 218,000       | 140   |
| 169    | 4600             | 2 72             |  |   |   |   |   |   | 253,000   | 175   | 247,000       | 170   | 240,000       | 165   | 233,000       | 160   |
| 176    | 4800             | 2 96             |  |   |   |   |   |   | 267,000   | 200   | 260,000       | 195   | 255,000       | 195   | 248,000       | 190   |
| 184    | 5000             | 3 21             |  |   |   |   |   |   | 279,000   | 230   | 274,000       | 225   | 268,000       | 220   | 262,000       | 215   |
| 193    | 5250             | 3 54             |  |   |   |   |   |   | 294,000   | 265   | 290,000       | 260   | 285,000       | 260   | 279,000       | 255   |
| 202    | 5500             | 3 89             |  |   |   |   |   |   |   |       | 306,000       | 305   | 302,000       | 300   | 295,000       | 295   |
| 212    | 5750             | 4 25             |  |   |   |   |   |   |   |       | 322,000       | 350   | 318,000       | 345   | 312,000       | 340   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1 1/2" Water .578 ozs. per sq. inch  | Static Pressure 1 1/2" Water .723 ozs. per sq. inch | Static Pressure 1 1/2" Water .878 ozs. per sq. inch | Static Pressure 1 1/2" Water 1.01 ozs. per sq. inch | Static Pressure 2" Water 1.16 ozs. per sq. inch   | Static Pressure 2 1/2" Water 1.45 ozs. per sq. inch | Static Pressure 3" Water 1.73 ozs. per sq. inch   |       |               |       |               |       |               |       |
| 110    | 3000             | 1 16             | 98,200   | 28  |   |   |   |   |   |       |               |       |               |       |               |       |
| 118    | 3200             | 1 32             | 116,000  | 37  | 96,400  | 31  |   |   |   |       |               |       |               |       |               |       |
| 125    | 3400             | 1 49             | 131,000  | 48  | 114,000   | 42  |   |   |   |       |               |       |               |       |               |       |
| 132    | 3600             | 1 67             | 147,000  | 60  | 128,000   | 54  | 116,000   | 47  |   |       |               |       |               |       |               |       |
| 140    | 3800             | 1 86             | 163,000  | 76  | 147,000   | 68  | 136,000   | 62  | 116,000   | 52    |               |       |               |       |               |       |
| 147    | 4000             | 2 01             | 179,000  | 94  | 163,000   | 82  | 150,000   | 76  | 133,000   | 68    | 115,000       | 56    |               |       |               |       |
| 154    | 4200             | 2 27             | 195,000  | 115   | 179,000   | 100   | 166,000   | 94  | 151,000   | 84    | 133,000       | 74    |               |       |               |       |
| 162    | 4400             | 2 49             | 211,000  | 135   | 194,000   | 120   | 183,000   | 115   | 167,000   | 100   | 150,000       | 92    |               |       |               |       |
| 169    | 4600             | 2 72             | 226,000  | 155   | 211,000   | 145   | 198,000   | 135   | 184,000   | 125   | 172,000       | 115   | 144,000       | 96    |               |       |
| 176    | 4800             | 2 96             | 241,000  | 180   | 227,000   | 170   | 214,000   | 160   | 201,000   | 145   | 185,000       | 135   | 161,000       | 115   |               |       |
| 184    | 5000             | 3 21             | 256,000  | 210   | 242,000   | 200   | 229,000   | 185   | 216,000   | 175   | 201,000       | 160   | 179,000       | 140   | 153,000       | 120   |
| 193    | 5250             | 3 54             | 274,000  | 245   | 262,000   | 235   | 248,000   | 225   | 236,000   | 210   | 222,000       | 195   | 199,000       | 170   | 180,000       | 155   |
| 202    | 5500             | 3 89             | 292,000  | 280   | 279,000   | 275   | 267,000   | 265   | 255,000   | 250   | 240,000       | 235   | 217,000       | 210   | 198,000       | 190   |
| 212    | 5750             | 4 25             | 308,000  | 335   | 297,000   | 325   | 286,000   | 310   | 273,000   | 295   | 261,000       | 280   | 237,000       | 250   | 219,000       | 225   |
| 221    | 6000             | 4 62             | 325,000  | 385   | 315,000   | 370   | 305,000   | 360   | 293,000   | 345   | 281,000       | 330   | 257,000       | 295   | 239,000       | 280   |
| 230    | 6250             | 5 01             | 342,000  | 440   | 332,000   | 425   | 323,000   | 410   | 311,000   | 395   | 301,000       | 385   | 277,000       | 350   | 259,000       | 320   |
| 239    | 6500             | 5 43             | 358,000  | 495   | 350,000   | 485   | 340,000   | 470   | 330,000   | 455   | 319,000       | 440   | 298,000       | 410   | 279,000       | 375   |
| 248    | 6750             | 5 85             | 374,000  | 560   | 366,000   | 550   | 357,000   | 535   | 348,000   | 520   | 338,000       | 505   | 317,000       | 475   | 299,000       | 440   |
| 257    | 7000             | 6 30             | 390,000  | 625   | 383,000   | 615   | 374,000   | 605   | 366,000   | 590   | 356,000       | 575   | 337,000       | 540   | 319,000       | 505   |
| 276    | 7500             | 7 22             |  |   | 416,000   | 770   | 408,000   | 755   | 400,000   | 740   | 392,000       | 725   | 375,000       | 690   | 356,000       | 655   |
| 294    | 8000             | 8 22             |  |   | 448,000   | 940   | 440,000   | 925   | 434,000   | 915   | 426,000       | 895   | 411,000       | 860   | 394,000       | 830   |
| 312    | 8500             | 9 28             |  |   |   |   | 472,000   | 1110  | 467,000   | 1110  | 460,000       | 1090  | 446,000       | 1060  | 432,000       | 1020  |
| 331    | 9000             | 10 40            |  |   |   |   | 504,000   | 1340  | 500,000   | 1330  | 494,000       | 1320  | 481,000       | 1280  | 467,000       | 1250  |
| 349    | 9500             | 11 60            |  |   |   |   |   |   | 538,000   | 1570  | 526,000       | 1560  | 511,000       | 1530  | 502,000       | 1480  |
| 368    | 10000            | 12 84            |  |   |   |   |   |   |   |       | 558,000       | 1830  | 547,000       | 1800  | 536,000       | 1760  |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 3 1/2" Water 2.02 ozs. per sq. inch  | Static Pressure 4" Water 2.31 ozs. per sq. inch     | Static Pressure 5" Water 2.89 ozs. per sq. inch     | Static Pressure 6" Water 3.47 ozs. per sq. inch     | Static Pressure 7" Water 4.05 ozs. per sq. inch   | Static Pressure 8" Water 4.63 ozs. per sq. inch     | Static Pressure 9" Water 5.2 ozs. per sq. inch    |       |               |       |               |       |               |       |
| 202    | 5500             | 3 89             | 175,000  | 165   |   |   |   |   |   |       |               |       |               |       |               |       |
| 212    | 5750             | 4 25             | 196,000  | 200   | 175,000   | 185   |   |   |   |       |               |       |               |       |               |       |
| 221    | 6000             | 4 62             | 217,000  | 245   | 197,000   | 205   |   |   |   |       |               |       |               |       |               |       |
| 230    | 6250             | 5 01             | 238,000  | 290   | 218,000   | 270   |   |   |   |       |               |       |               |       |               |       |
| 239    | 6500             | 5 43             | 256,000  | 345   | 242,000   | 310   | 204,000   | 270   |   |       |               |       |               |       |               |       |
| 248    | 6750             | 5 85             | 276,000  | 400   | 259,000   | 375   | 225,000   | 325   |   |       |               |       |               |       |               |       |
| 257    | 7000             | 6 30             | 296,000  | 465   | 280,000   | 435   | 245,000   | 380   | 210,000   | 325   |               |       |               |       |               |       |
| 276    | 7500             | 7 22             | 330,000  | 610   | 320,000   | 575   | 286,000   | 510   | 252,000   | 445   | 218,000       | 375   |               |       |               |       |
| 294    | 8000             | 8 22             | 358,000  | 745   | 358,000   | 745   | 325,000   | 660   | 294,000   | 590   | 264,000       | 535   | 230,000       | 445   |               |       |
| 312    | 8500             | 9 28             | 416,000  | 985   | 389,000   | 940   | 364,000   | 850   | 334,000   | 765   | 306,000       | 695   | 279,000       | 635   | 247,000       | 550   |
| 331    | 9000             | 10 40            | 453,000  | 1200  | 437,000   | 1160  | 405,000   | 1060  | 374,000   | 970   | 348,000       | 890   | 322,000       | 825   | 296,000       | 755   |
| 349    | 9500             | 11 60            | 490,000  | 1450  | 475,000   | 1410  | 446,000   | 1320  | 414,000   | 1210  | 386,000       | 1110  | 364,000       | 1040  | 339,000       | 965   |
| 368    | 10000            | 12 84            | 524,000  | 1720  | 511,000   | 1680  | 485,000   | 1590  | 455,000   | 1480  | 426,000       | 1370  | 401,000       | 1280  | 380,000       | 1200  |

Double Inlet

## No. 20 Multivane Fan — Design 3

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M. H. P. Static Pressure 1/2" Water .0722 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 3/4" Water .145 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1" Water .217 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1 1/4" Water .289 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1 1/2" Water .361 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1 3/4" Water .434 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 2" Water .506 ozs. per sq. inch |
|--------|------------------|------------------|--|---|---|---|---|---|---|
| 33     | 1000             | 0 128 1          | 36,200 1 10  |   |   |   |   |   |   |
| 39     | 1200             | 0 185            | 58,600 2 65  |   |   |   |   |   |   |
| 46     | 1400             | 0 252            | 78,500 5 0   |   |   |   |   |   |   |
| 52     | 1600             | 0 329            | 98,500 8 3   | 67,400 5 4  |   |   |   |   |   |
| 59     | 1800             | 0 412            | 117,000 12 5   | 92,800 9 6  | 73,500 7 5  |   |   |   |   |
| 65     | 2000             | 0 514            | 135,000 17 5   | 113,000 14 5  | 94,700 12   | 72,500 8 8  |   |   |   |
| 72     | 2200             | 0 621            | 152,000 24   | 134,000 21  | 116,000 18  | 94,900 14 5   |   |   |   |
| 78     | 2400             | 0 740            | 168,000 32   | 152,000 29  | 136,000 25  | 117,000 21 5  | 102,000 18  |   |   |
| 85     | 2600             | 0 868            | 184,000 41   | 171,000 38  | 154,000 34  | 137,000 30  | 124,000 26  | 111,000 23 5  |   |
| 92     | 2800             | 1 01             |  | 188,000 49  | 174,000 45  | 159,000 40  | 145,000 37  | 131,000 32  | 119,000 29  |
| 98     | 3000             | 1 16             |  | 205,000 60  | 193,000 56  | 178,000 52  | 165,000 48  | 149,000 43  | 140,000 40  |
| 105    | 3200             | 1 32             |  | 222,000 74  | 210,000 70  | 197,000 66  | 183,000 60  | 172,000 56  | 158,000 52  |
| 111    | 3400             | 1 49             |  | 239,000 90  | 227,000 86  | 216,000 82  | 204,000 76  | 192,000 72  | 179,000 66  |
| 118    | 3600             | 1 67             |  | 255,000 110   | 246,000 105   | 235,000 100   | 223,000 94  | 210,000 88  | 198,000 82  |
| 124    | 3800             | 1 86             |  |   | 262,000 125   | 252,000 120   | 242,000 115   | 230,000 110   | 218,000 100   |
| 131    | 4000             | 2 01             |  |   | 279,000 145   | 270,000 140   | 260,000 135   | 249,000 130   | 238,000 125   |
| 137    | 4200             | 2 27             |  |   | 295,000 170   | 287,000 165   | 278,000 160   | 269,000 155   | 258,000 150   |
| 144    | 4400             | 2 49             |  |   | 312,000 200   | 304,000 195   | 296,000 190   | 287,000 180   | 276,000 175   |
| 150    | 4600             | 2 72             |  |   |   | 320,000 220   | 313,000 220   | 304,000 210   | 296,000 205   |
| 157    | 4800             | 2 96             |  |   |   | 337,000 255   | 329,000 250   | 322,000 245   | 314,000 240   |
| 163    | 5000             | 3 21             |  |   |   | 353,000 290   | 347,000 285   | 340,000 280   | 331,000 270   |
| 172    | 5250             | 3 54             |  |   |   | 373,000 335   | 366,000 330   | 361,000 325   | 353,000 320   |
| 180    | 5500             | 3 89             |  |   |   |   | 387,000 385   | 382,000 380   | 373,000 370   |
| 188    | 5750             | 4 25             |  |   |   |   | 407,000 445   | 402,000 435   | 394,000 425   |
|        |                  |                  |  |   |   |   |   |   |   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 ozs. per sq. inch                        | Static Pressure 1 1/4" Water .723 ozs. per sq. inch                   | Static Pressure 1 1/2" Water .878 ozs. per sq. inch                 | Static Pressure 1 3/4" Water 1.01 ozs. per sq. inch                     | Static Pressure 2" Water 1.16 ozs. per sq. inch                         | Static Pressure 2 1/4" Water 1.45 ozs. per sq. inch                     | Static Pressure 2 1/2" Water 1.73 ozs. per sq. inch                 |
| 98     | 3000             | 1 16             | 124,000 35   |   |   |   |   |   |   |
| 105    | 3200             | 1 32             | 146,000 47   | 122,000 39  |   |   |   |   |   |
| 111    | 3400             | 1 49             | 166,000 62   | 144,000 52  |   |   |   |   |   |
| 118    | 3600             | 1 67             | 186,000 76   | 162,000 68  | 147,000 60  |   |   |   |   |
| 124    | 3800             | 1 86             | 206,000 96   | 186,000 86  | 172,000 78  | 146,000 66  |   |   |   |
| 131    | 4000             | 2 01             | 226,000 120  | 206,000 105   | 190,000 90  | 168,000 84  | 145,000 70  |   |   |
| 137    | 4200             | 2 27             | 247,000 145  | 227,000 130   | 210,000 120   | 191,000 105   | 168,000 94  |   |   |
| 144    | 4400             | 2 49             | 267,000 170  | 246,000 155   | 232,000 145   | 212,000 130   | 190,000 115   |   |   |
| 150    | 4600             | 2 72             | 286,000 200  | 267,000 185   | 251,000 170   | 233,000 155   | 217,000 145   | 182,000 120   |   |
| 157    | 4800             | 2 96             | 305,000 230  | 287,000 215   | 270,000 200   | 254,000 185   | 234,000 170   | 204,000 150   |   |
| 163    | 5000             | 3 21             | 324,000 265  | 306,000 250   | 291,000 235   | 274,000 220   | 254,000 200   | 226,000 180   | 194,000 155   |
| 172    | 5250             | 3 54             | 346,000 310  | 331,000 300   | 314,000 280   | 299,000 265   | 281,000 250   | 252,000 220   | 227,000 200   |
| 180    | 5500             | 3 89             | 369,000 365  | 353,000 350   | 338,000 335   | 322,000 315   | 304,000 295   | 274,000 265   | 250,000 240   |
| 188    | 5750             | 4 25             | 390,000 425  | 376,000 410   | 362,000 390   | 346,000 375   | 331,000 355   | 300,000 315   | 276,000 290   |
| 196    | 6000             | 4 62             | 411,000 485  | 398,000 470   | 386,000 455   | 371,000 435   | 356,000 420   | 325,000 375   | 302,000 355   |
| 201    | 6250             | 5 01             | 432,000 555  | 420,000 540   | 408,000 520   | 394,000 500   | 381,000 485   | 350,000 440   | 327,000 405   |
| 212    | 6500             | 5 43             | 452,000 625  | 442,000 615   | 429,000 595   | 417,000 580   | 404,000 560   | 376,000 520   | 353,000 475   |
| 222    | 6750             | 5 85             | 473,000 710  | 463,000 695   | 451,000 675   | 441,000 660   | 427,000 640   | 402,000 600   | 378,000 555   |
| 229    | 7000             | 6 30             | 494,000 790  | 484,000 780   | 475,000 765   | 463,000 745   | 451,000 725   | 426,000 685   | 403,000 640   |
| 245    | 7500             | 7 22             |  | 526,000 970   | 516,000 955   | 506,000 935   | 495,000 915   | 474,000 875   | 451,000 830   |
| 262    | 8000             | 8 22             |  | 565,000 1190  | 558,000 1170  | 549,000 1150  | 540,000 1130  | 520,000 1090  | 499,000 1050  |
| 278    | 8500             | 9 28             |  |   | 597,000 1410  | 591,000 1400  | 581,000 1380  | 565,000 1340  | 546,000 1300  |
| 294    | 9000             | 10 10            |  |   | 638,000 1700  | 632,000 1680  | 625,000 1660  | 609,000 1620  | 591,000 1580  |
| 310    | 9500             | 11 60            |  |   |   | 675,000 1990  | 666,000 1970  | 650,000 1930  | 635,000 1880  |
| 327    | 10000            | 12 84            |  |   |   |   | 706,000 2320  | 693,000 2280  | 679,000 2220  |
|        |                  |                  |  |   |   |   |   |   |   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 3 1/2" Water 2.62 ozs. per sq. inch                    | Static Pressure 4" Water 2.31 ozs. per sq. inch                       | Static Pressure 5" Water 2.89 ozs. per sq. inch                     | Static Pressure 6" Water 3.47 ozs. per sq. inch                         | Static Pressure 7" Water 4.05 ozs. per sq. inch                         | Static Pressure 8" Water 4.63 ozs. per sq. inch                         | Static Pressure 9" Water 5.2 ozs. per sq. inch                      |
| 180    | 5500             | 3 89             | 221,000 210  |   |   |   |   |   |   |
| 188    | 5750             | 4 25             | 248,000 255  | 222,000 230   |   |   |   |   |   |
| 196    | 6000             | 4 62             | 275,000 310  | 249,000 260   |   |   |   |   |   |
| 204    | 6250             | 5 01             | 300,000 370  | 276,000 340   |   |   |   |   |   |
| 212    | 6500             | 5 43             | 324,000 435  | 307,000 395   | 258,000 345   |   |   |   |   |
| 222    | 6750             | 5 85             | 349,000 505  | 328,000 470   | 285,000 410   |   |   |   |   |
| 229    | 7000             | 6 30             | 374,000 590  | 354,000 550   | 311,000 480   | 265,000 410   |   |   |   |
| 245    | 7500             | 7 22             | 425,000 775  | 405,000 725   | 382,000 645   | 319,000 565   | 276,000 475   |   |   |
| 262    | 8000             | 8 22             | 476,000 960  | 453,000 940   | 411,000 835   | 372,000 750   | 334,000 675   | 291,000 565   |   |
| 278    | 8500             | 9 28             | 526,000 1240   | 504,000 1190  | 461,000 1070  | 423,000 970   | 387,000 890   | 353,000 800   |   |
| 294    | 9000             | 10 40            | 572,000 1520   | 553,000 1470  | 512,000 1350  | 474,000 1230  | 440,000 1130  | 407,000 1040  | 374,000 955   |
| 310    | 9500             | 11 60            | 620,000 1830   | 601,000 1780  | 565,000 1660  | 524,000 1530  | 488,000 1410  | 460,000 1310  | 430,000 1220  |
| 327    | 10000            | 12 84            | 662,000 2180   | 647,000 2120  | 614,000 2010  | 576,000 1870  | 539,000 1740  | 508,000 1620  | 481,000 1520  |





Double Inlet

## No. 24 Multivane Fan — Design 3

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M. H.P. Static Pressure 1/2" Water .0722 ozs. per sq. inch | Volume C.F.M. H.P. Static Pressure 1/2" Water .145 ozs. per sq. inch | Volume C.F.M. H.P. Static Pressure 3/4" Water .217 ozs. per sq. inch | Volume C.F.M. H.P. Static Pressure 1" Water .289 ozs. per sq. inch | Volume C.F.M. H.P. Static Pressure 1 1/4" Water .361 ozs. per sq. inch | Volume C.F.M. H.P. Static Pressure 1 1/2" Water .434 ozs. per sq. inch | Volume C.F.M. H.P. Static Pressure 1 3/4" Water .506 ozs. per sq. inch |
|--------|------------------|------------------|---|--|--|--|--|--|--|
| 27     | 1000             | 0 128 1          | 54,100 1 7  |  |  |  |  |  |  |
| 32     | 1200             | 0 185            | 87,500 4 0  |  |  |  |  |  |  |
| 37     | 1400             | 0 252            | 117,000 7 5   |  |  |  |  |  |  |
| 43     | 1600             | 0 329            | 147,000 12 5  | 101,000 8  |  |  |  |  |  |
| 48     | 1800             | 0 412            | 175,000 18 5  | 139,000 15   | 110,000 11   |  |  |  |  |
| 52     | 2000             | 0 514            | 202,000 26  | 169,000 22   | 141,000 18   | 108,000 13   |  |  |  |
| 59     | 2200             | 0 621            | 227,000 36  | 200,000 32   | 173,000 27   | 142,000 22   |  |  |  |
| 64     | 2400             | 0 740            | 252,000 48  | 228,000 43   | 203,000 38   | 175,000 34   | 153,000 27   |  |  |
| 70     | 2600             | 0 868            | 276,000 60  | 255,000 56   | 231,000 50   | 205,000 44   | 185,000 39   | 166,000 35   |  |
| 75     | 2800             | 1 01             |   | 281,000 72   | 260,000 66   | 238,000 60   | 216,000 56   | 196,000 48   | 178,000 44   |
| 80     | 3000             | 1 16             |   | 306,000 90   | 288,000 86   | 265,000 78   | 246,000 72   | 223,000 64   | 200,000 60   |
| 86     | 3200             | 1 32             |   | 332,000 110  | 314,000 105  | 294,000 98   | 273,000 92   | 257,000 84   | 235,000 76   |
| 91     | 3400             | 1 49             |   | 357,000 135  | 339,000 130  | 323,000 120  | 304,000 115  | 286,000 105  | 267,000 98   |
| 96     | 3600             | 1 67             |   | 381,000 165  | 367,000 155  | 351,000 150  | 333,000 140  | 314,000 135  | 295,000 125  |
| 102    | 3800             | 1 86             |   |  | 391,000 185  | 377,000 180  | 361,000 170  | 344,000 160  | 325,000 155  |
| 107    | 4000             | 2 01             |   |  | 416,000 220  | 403,000 210  | 388,000 205  | 372,000 195  | 355,000 185  |
| 112    | 4200             | 2 27             |   |  | 441,000 255  | 429,000 250  | 415,000 240  | 401,000 230  | 385,000 225  |
| 118    | 4400             | 2 49             |   |  | 465,000 295  | 454,000 290  | 442,000 280  | 429,000 270  | 413,000 260  |
| 123    | 4600             | 2 72             |   |  |  | 478,000 330  | 468,000 325  | 454,000 315  | 441,000 305  |
| 128    | 4800             | 2 96             |   |  |  | 504,000 380  | 492,000 375  | 481,000 365  | 469,000 355  |
| 134    | 5000             | 3 21             |   |  |  | 528,000 430  | 518,000 425  | 507,000 415  | 495,000 405  |
| 140    | 5270             | 3 54             |   |  |  | 556,000 500  | 548,000 495  | 539,000 490  | 528,000 480  |
| 147    | 5500             | 3 89             |   |  |  |  | 579,000 575  | 570,000 565  | 558,000 555  |
| 154    | 5750             | 4 25             |   |  |  |  | 609,000 660  | 601,000 650  | 589,000 640  |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 ozs. per sq. inch                       | Static Pressure 1 1/4" Water .723 ozs. per sq. inch                  | Static Pressure 1 1/2" Water .878 ozs. per sq. inch                  | Static Pressure 1 3/4" Water 1.01 ozs. per sq. inch                | Static Pressure 2" Water 1.16 ozs. per sq. inch                        | Static Pressure 2 1/4" Water 1.45 ozs. per sq. inch                    | Static Pressure 2 1/2" Water 1.73 ozs. per sq. inch                    |
| 80     | 3000             | 1 16             | 186,000 52  |  |  |  |  |  |  |
| 86     | 3200             | 1 32             | 218,000 70  | 182,000 58   |  |  |  |  |  |
| 91     | 3400             | 1 49             | 247,000 92  | 215,000 78   |  |  |  |  |  |
| 96     | 3600             | 1 67             | 277,000 115   | 242,000 100  | 219,000 90   |  |  |  |  |
| 102    | 3800             | 1 86             | 307,000 145   | 277,000 130  | 256,000 115  | 219,000 100  |  |  |  |
| 107    | 4000             | 2 01             | 338,000 175   | 307,000 155  | 283,000 140  | 251,000 125  | 217,000 105  |  |  |
| 112    | 4200             | 2 27             | 369,000 215   | 339,000 190  | 314,000 175  | 287,000 160  | 250,000 140  |  |  |
| 118    | 4400             | 2 49             | 399,000 255   | 367,000 230  | 346,000 215  | 316,000 195  | 284,000 175  |  |  |
| 123    | 4600             | 2 72             | 427,000 295   | 399,000 275  | 375,000 255  | 348,000 235  | 324,000 215  | 271,000 180  |  |
| 128    | 4800             | 2 96             | 455,000 345   | 429,000 320  | 404,000 300  | 379,000 280  | 350,000 255  | 304,000 220  |  |
| 134    | 5000             | 3 21             | 481,000 395   | 458,000 375  | 434,000 350  | 409,000 330  | 379,000 300  | 337,000 265  | 290,000 230  |
| 140    | 5250             | 3 54             | 518,000 465   | 494,000 445  | 469,000 420  | 446,000 400  | 419,000 370  | 376,000 325  | 339,000 295  |
| 147    | 5500             | 3 89             | 551,000 545   | 527,000 525  | 505,000 500  | 481,000 475  | 454,000 445  | 410,000 395  | 374,000 355  |
| 154    | 5750             | 4 25             | 583,000 635   | 561,000 610  | 540,000 585  | 517,000 560  | 494,000 530  | 448,000 470  | 413,000 430  |
| 160    | 6000             | 4 62             | 614,000 725   | 595,000 705  | 576,000 680  | 554,000 655  | 532,000 625  | 485,000 560  | 451,000 530  |
| 167    | 6250             | 5 01             | 646,000 830   | 628,000 805  | 610,000 780  | 589,000 750  | 569,000 725  | 523,000 660  | 489,000 610  |
| 174    | 6500             | 5 43             | 676,000 935   | 661,000 915  | 641,000 890  | 624,000 865  | 604,000 835  | 563,000 775  | 528,000 710  |
| 181    | 6750             | 5 85             | 707,000 1060  | 692,000 1040   | 675,000 1010   | 659,000 985  | 639,000 955  | 600,000 895  | 565,000 830  |
| 187    | 7000             | 6 30             | 737,000 1180  | 723,000 1170   | 708,000 1140   | 692,000 1110   | 674,000 1080   | 637,000 1030   | 603,000 950  |
| 200    | 7500             | 7 22             |   | 787,000 1450   | 771,000 1430   | 756,000 1400   | 741,000 1379   | 709,000 1310   | 674,000 1240   |
| 214    | 8000             | 8 22             |   | 815,000 1770   | 833,000 1760   | 820,000 1730   | 806,000 1690   | 777,000 1630   | 745,000 1570   |
| 227    | 8500             | 9 28             |   |  | 893,000 2100   | 883,000 2100   | 869,000 2070   | 843,000 2010   | 816,000 1940   |
| 241    | 9000             | 10 40            |   |  | 953,000 2540   | 944,000 2510   | 934,000 2480   | 909,000 2430   | 883,000 2360   |
| 254    | 9500             | 11 60            |   |  |  | 1,010,000 2970   | 995,000 2940   | 972,000 2880   | 949,000 2800   |
| 268    | 10000            | 12 84            |   |  |  |  | 1,060,000 3460   | 1,040,000 3400   | 1,020,000 3320   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 3 1/2" Water 2.02 ozs. per sq. inch                   | Static Pressure 4" Water 2.31 ozs. per sq. inch                      | Static Pressure 5" Water 2.89 ozs. per sq. inch                      | Static Pressure 6" Water 3.47 ozs. per sq. inch                    | Static Pressure 7" Water 4.05 ozs. per sq. inch                        | Static Pressure 8" Water 4.63 ozs. per sq. inch                        | Static Pressure 9" Water 5.2 ozs. per sq. inch                         |
| 147    | 5500             | 3 89             | 330,000 315   |  |  |  |  |  |  |
| 154    | 5750             | 4 25             | 370,000 380   | 331,000 345  |  |  |  |  |  |
| 160    | 6000             | 4 62             | 410,000 465   | 372,000 385  |  |  |  |  |  |
| 167    | 6250             | 5 01             | 449,000 550   | 412,000 505  |  |  |  |  |  |
| 174    | 6500             | 5 43             | 481,000 650   | 458,000 590  | 385,000 515  |  |  |  |  |
| 181    | 6750             | 5 85             | 521,000 755   | 490,000 705  | 425,000 610  |  |  |  |  |
| 187    | 7000             | 6 30             | 559,000 880   | 529,000 820  | 464,000 720  | 396,000 610  |  |  |  |
| 200    | 7500             | 7 22             | 635,000 1160  | 605,000 1080   | 540,000 960  | 476,000 840  | 412,000 710  |  |  |
| 214    | 8000             | 8 22             | 712,000 1480  | 677,000 1410   | 614,000 1250   | 556,000 1120   | 499,000 1010   | 434,000 845  |  |
| 227    | 8500             | 9 28             | 785,000 1860  | 753,000 1780   | 689,000 1600   | 632,000 1450   | 579,000 1320   | 527,000 1200   | 467,000 1040   |
| 241    | 9000             | 10 40            | 855,000 2270  | 826,000 2200   | 764,000 2015   | 708,000 1830   | 658,000 1680   | 609,000 1560   | 559,000 1430   |
| 254    | 9500             | 11 60            | 926,000 2730  | 898,000 2660   | 843,000 2490   | 783,000 2290   | 730,000 2110   | 688,000 1960   | 642,000 1830   |
| 268    | 10000            | 12 84            | 990,000 3250  | 967,000 3170   | 917,000 3000   | 860,000 2790   | 805,000 2590   | 758,000 2420   | 719,000 2270   |



Double Inlet

## No. 2 Multivane Fan — Design 3

Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M. H. P. Static Pressure 1" Water .0722 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1½" Water .145 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 2" Water .217 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 2½" Water .289 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 3" Water .361 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 3½" Water .434 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 4" Water .506 ozs. per sq. inch |
|--------|------------------|------------------|--|--|---|--|---|--|---|
| 308    | 1075             | 0 152            | 294 0.012  |  |   |  |   |  |   |
| 353    | 1200             | 0 189            | 1,300 0.054  |  |   |  |   |  |   |
| 412    | 1400             | 0 258            | 1,740 0 10   | 46 0 020   |   |  |   |  |   |
| 470    | 1600             | 0 337            | 2,120 0 16   | 1,556 0 115  |   |  |   |  |   |
| 529    | 1800             | 0 426            | 2,410 0 23   | 2,280 0 20   | 376 0 0 8   |  |   |  |   |
| 588    | 2000             | 0 526            | 2,780 0 32   | 2,500 0 30   | 2,040 0 24  | 106 0 058  |   |  |   |
| 646    | 2200             | 0 636            | 3,080 0 41   | 2,880 0 41   | 2,540 0 36  | 1,982 0 28   | 36 0 068  |  |   |
| 705    | 2400             | 0 759            | 3,400 0 57   | 3,220 0 55   | 2,900 0 51  | 2,600 0 44   | 1,934 0 33  | 28 0 094   |   |
| 765    | 2600             | 0 889            | 3,700 0 73   | 3,510 0 71   | 3,310 0 67  | 3,060 0 61   | 2,680 0 53  | 1,912 0 39   |   |
| 824    | 2800             | 1 03             |  | 3,880 0 89   | 3,700 0 87  | 3,480 0 81   | 3,200 0 74  | 2,720 0 63   | 1,930 0 49  |
| 882    | 3000             | 1 19             |  | 4,200 1 10   | 4,040 1 1   | 3,860 1 05   | 3,620 0 97  | 3,320 0 88   | 2,940 0 78  |
| 941    | 3200             | 1 35             |  | 4,500 1 35   | 4,340 1 3   | 4,220 1 30   | 4,020 1 20  | 3,800 1 15   | 3,500 1 10  |
| 1000   | 3400             | 1 52             |  | 4,820 1 60   | 4,700 1 6   | 4,500 1 55   | 4,400 1 55  | 4,220 1 45   | 3,980 1 35  |
| 1059   | 3600             | 1 71             |  | 5,120 1 95   | 5,000 1 9   | 4,900 1 9  | 4,760 1 85  | 4,580 1 75   | 4,400 1 7   |
| 1118   | 3800             | 1 90             |  | 5,420 2 3  | 5,320 2 3   | 5,220 2 2  | 5,100 2 2   | 4,960 2 1  | 4,786 2 1   |
| 1177   | 4000             | 2 11             |  |  | 5,640 2 6   | 5,540 2 6  | 5,420 2 6   | 5,320 2 5  | 5,160 2 5   |
| 1236   | 4200             | 2 32             |  |  | 5,900 3 1   | 5,840 3 0  | 5,760 3 0   | 5,660 3 0  | 5,520 2 9   |
| 1294   | 4400             | 2 55             |  |  | 6,200 3 6   | 6,180 3 5  | 6,080 3 5   | 5,980 3 4  | 5,880 3 4   |
| 1353   | 4600             | 2 78             |  |  | 6,500 4 1   | 6,480 4 0  | 6,400 4 0   | 6,300 3 9  | 6,200 3 9   |
| 1412   | 4800             | 3 03             |  |  |   | 6,800 4 6  | 6,720 4 5   | 6,640 4 5  | 6,540 4 4   |
| 1471   | 5000             | 3 29             |  |  |   | 7,100 5 2  | 7,040 5 1   | 6,960 5 1  | 6,860 5 0   |
| 1531   | 5250             | 3 63             |  |  |   | 7,480 6  | 7,420 6 0   | 7,340 6 0  | 7,260 5 9   |
| 1591   | 5500             | 3 98             |  |  |   |  | 7,800 6 9   | 7,720 6 8  | 7,640 6 8   |
| 1652   | 5750             | 4 35             |  |  |   |  | 8,180 7 9   | 8,120 7 8  | 8,060 7 8   |
| 1717   | 6000             | 4 74             |  |  |   |  | 8,560 9 1   | 8,520 9 0  | 8,440 8 9   |
| 1780   | 6250             | 5 11             |  |  |   |  |   | 8,880 10 0   | 8,840 10  |
| 1842   | 6500             | 5 56             |  |  |   |  |   | 9,260 11 5   | 9,200 11  |
| 1906   | 6750             | 5 99             |  |  |   |  |   |  | 9,600 13  |
| 882    | 3000             | 1 19             | 1,730 0 47   |  |   |  |   |  |   |
| 941    | 3200             | 1 35             | 3,120 0 91   | 312 0 29   |   |  |   |  |   |
| 1000   | 3400             | 1 52             | 3,680 1 25   | 2,740 0 94   |   |  |   |  |   |
| 1059   | 3600             | 1 71             | 4,160 1 6  | 3,560 1 35   | 774 0 47  |  |   |  |   |
| 1118   | 3800             | 1 90             | 4,660 1 9  | 4,120 1 75   | 3,380 1 45  | 408 0 49   |   |  |   |
| 1177   | 4000             | 2 11             | 5,000 2 4  | 4,600 2 2  | 4,080 1 8   | 3,100 1 45   |   |  |   |
| 1236   | 4200             | 2 32             | 5,380 2 8  | 5,040 2 6  | 4,020 2 4   | 4,000 2 1  | 1,178 0 8   |  |   |
| 1294   | 4400             | 2 55             | 5,760 3 3  | 5,440 3 1  | 5,080 2 9   | 4,640 2 6  | 3,920 2 1   |  |   |
| 1353   | 4600             | 2 78             | 6,080 3 8  | 5,840 3 7  | 5,520 3 5   | 5,140 3 2  | 4,700 2 9   |  |   |
| 1412   | 4800             | 3 03             | 6,440 4 4  | 6,200 4 3  | 5,940 4 1   | 5,600 3 8  | 5,200 3 5   | 736 0 93   |   |
| 1471   | 5000             | 3 29             | 6,780 5 0  | 6,580 4 9  | 6,340 4 7   | 6,040 4 5  | 5,700 4 3   | 3,840 2 6  |   |
| 1531   | 5250             | 3 63             | 7,180 5 8  | 7,020 5 7  | 6,780 5 6   | 6,560 5 4  | 6,240 5 1   | 4,740 3 5  | 644 1 15  |
| 1591   | 5500             | 3 98             | 7,580 6 7  | 7,420 6 6  | 7,240 6 5   | 7,020 6 3  | 6,760 6 1   | 5,500 4 4  | 4,160 3 4   |
| 1652   | 5750             | 4 35             | 7,960 7 8  | 7,840 7 7  | 7,600 7 6   | 7,480 7 4  | 7,240 7 1   | 6,140 5 5  | 5,260 4 6   |
| 1717   | 6000             | 4 74             | 8,400 8 8  | 8,240 8 7  | 8,120 8 7   | 7,920 8 5  | 7,720 8 3   | 6,760 6 1  | 6,020 5 8   |
| 1780   | 6250             | 5 11             | 8,780 10 0   | 8,660 9 9  | 8,500 9 8   | 8,360 9 7  | 8,180 9 5   | 7,260 7 7  | 7,240 7 7   |
| 1842   | 6500             | 5 56             | 9,160 11 0   | 9,000 11 0   | 8,900 11  | 8,780 11 0   | 8,600 11 0  | 7,760 9 0  | 7,640 8 4   |
| 1906   | 6750             | 5 99             | 9,540 12 5   | 9,440 12 5   | 9,300 12  | 9,200 12 5   | 9,060 12 0  | 8,260 10 5   | 8,200 9 8   |
| 2060   | 7000             | 6 45             | 9,920 14 0   | 9,820 14 0   | 9,700 14  | 9,600 14   | 9,460 13 5  | 8,700 12 0   | 8,600 11 6  |
| 2205   | 7500             | 7 40             | 10,700 17 5  | 10,600 17 5  | 10,500 17   | 10,400 17  | 10,300 17   | 9,160 13 5   | 8,900 13 0  |
| 2355   | 8000             | 8 41             | 11,400 21  | 11,400 21  | 11,300 21   | 11,200 21  | 11,100 21   | 9,760 17   | 9,760 17 5  |
| 2500   | 8500             | 9 50             |  | 12,100 26  | 12,000 26   | 12,000 25  | 11,900 25   | 10,000 20  | 10,600 20   |
| 1618   | 5500             | 3 98             | 1,152 1 65   |  |   |  |   |  |   |
| 1692   | 5750             | 4 35             | 1,910 4 8  |  |   |  |   |  |   |
| 1767   | 6000             | 4 71             | 5,880 6 2  | 2,980 3 0  |   |  |   |  |   |
| 1840   | 6250             | 5 14             | 6,600 7 6  | 5,700 6 5  |   |  |   |  |   |
| 1912   | 6500             | 5 56             | 7,260 9 0  | 6,560 8 1  | 1,030 2 6   |  |   |  |   |
| 1986   | 6750             | 5 99             | 7,820 10 5   | 7,240 9 6  | 5,120 6 8   |  |   |  |   |
| 2060   | 7000             | 6 45             | 8,380 12   | 7,880 11 5   | 6,460 9 2   | 600 2 8  |   |  |   |
| 2205   | 7500             | 7 40             | 9,400 16   | 9,000 15   | 7,960 13 0  | 6,300 10 5   | 470 3 3   |  |   |
| 2355   | 8000             | 8 41             | 10,300 20  | 10,000 19  | 9,200 17 5  | 8,140 15   | 6,200 11 5  | 422 3 8  |   |
| 2500   | 8500             | 9 50             | 11,200 24  | 10,900 24  | 10,300 22   | 9,420 20   | 8,400 18  | 5,640 14   | 501 4 9   |
| 2645   | 9000             | 10 67            | 12,000 29  | 11,900 29  | 11,300 27   | 10,600 26  | 9,780 23  | 8,660 20   | 4,460 11  |
| 2795   | 9500             | 11 89            | 12,900 34  | 12,700 34  | 12,200 33   | 11,700 31  | 11,000 29   | 10,100 27  | 9,060 24  |
| 2940   | 10000            | 13 17            | 13,700 40  | 13,600 40  | 13,200 39   | 12,700 38  | 12,100 36   | 11,400 34  | 10,500 31   |



Double Inlet

## No. 4 Multivane Fan—Design 3

Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M. H. P. Static Pressure 1/2" Water .0722 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1" Water .145 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1 1/2" Water .217 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 2" Water .289 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 2 1/2" Water .361 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 3" Water .434 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 3 1/2" Water .506 ozs. per sq. inch |
|--------|------------------|------------------|--|---|---|---|---|---|---|
| 206    | 1075             | 0 152            | 662 0 028  |   |   |   |   |   |   |
| 235    | 1200             | 0 189            | 2,920 0 125  |   |   |   |   |   |   |
| 274    | 1400             | 0 258            | 3,920 0 23   | 101 0 016   |   |   |   |   |   |
| 314    | 1600             | 0 337            | 4,740 0 36   | 3,500 0 26  |   |   |   |   |   |
| 353    | 1800             | 0 426            | 5,500 0 53   | 4,680 0 45  | 828 0 132   |   |   |   |   |
| 392    | 2000             | 0 526            | 6,240 0 73   | 5,640 0 67  | 4,580 0 51  | 238 0 13  |   |   |   |
| 431    | 2200             | 0 636            | 6,940 0 98   | 6,460 0 93  | 5,720 0 82  | 4,160 0 63  | 82 0 16   |   |   |
| 470    | 2400             | 0 759            | 7,640 1 30   | 7,240 1 25  | 6,680 1 15  | 4,840 0 99  | 4,340 0 71  | 62 0 21   |   |
| 510    | 2600             | 0 880            | 8,300 1 65   | 7,980 1 6   | 7,520 1 50  | 6,900 1 40  | 6,000 1 20  | 4,300 0 88  |   |
| 549    | 2800             | 1 03             |  | 8,720 2 0   | 8,320 1 95  | 7,840 1 85  | 7,180 1 65  | 6,125 1 4   | 4,340 1 10  |
| 588    | 3000             | 1 19             |  | 9,440 2 5   | 9,100 2 4   | 8,680 2 3   | 8,140 2 2   | 7,180 2 0   | 6,620 1 75  |
| 627    | 3200             | 1 35             |  | 10,100 3 0  | 9,840 3 0   | 9,500 2 9   | 9,040 2 8   | 8,520 2 6   | 7,860 2 4   |
| 666    | 3400             | 1 52             |  | 10,800 3 7  | 10,000 3 6  | 10,300 3 5  | 9,900 3 5   | 9,500 3 3   | 8,940 3 1   |
| 705    | 3600             | 1 71             |  | 11,500 4 1  | 11,300 4 3  | 11,000 4 2  | 10,700 4 1  | 10,300 4 0  | 9,900 3 8   |
| 745    | 3800             | 1 90             |  | 12,200 5 1  | 12,000 5 1  | 11,700 5 0  | 11,500 4 9  | 11,100 4 8  | 10,800 4 6  |
| 785    | 4000             | 2 11             |  | 12,700 5 9  | 12,700 5 9  | 12,500 5 8  | 12,200 5 8  | 12,000 5 7  | 11,600 5 5  |
| 824    | 4200             | 2 32             |  | 13,400 6 9  | 13,400 6 9  | 13,100 6 8  | 12,940 6 7  | 12,700 6 6  | 12,420 6 5  |
| 862    | 4400             | 2 55             |  | 14,000 8 0  | 14,000 8 0  | 13,900 7 9  | 13,700 7 8  | 13,400 7 7  | 13,200 7 6  |
| 901    | 4600             | 2 78             |  | 14,700 9 1  | 14,700 9 1  | 14,500 9 0  | 14,400 8 9  | 14,200 8 8  | 14,000 8 7  |
| 941    | 4800             | 3 03             |  |   |   | 15,300 10 0   | 15,100 10 0   | 14,900 11 0   | 14,700 10 0   |
| 980    | 5000             | 3 29             |  |   |   | 16,000 11 5   | 15,800 11 5   | 15,600 11 5   | 15,400 11 0   |
| 1030   | 5250             | 3 63             |  |   |   | 16,800 13 5   | 16,700 13 5   | 16,500 13 5   | 16,300 13 0   |
| 1078   | 5500             | 3 98             |  |   |   |   | 17,500 15 5   | 17,300 15 5   | 17,200 15 0   |
| 1128   | 5750             | 4 35             |  |   |   |   | 18,400 18   | 18,300 17 5   | 18,100 17 5   |
| 1177   | 6000             | 4 71             |  |   |   |   | 19,300 20   | 19,200 20   | 19,000 20   |
| 1225   | 6250             | 5 14             |  |   |   |   | 20,000 23   | 20,000 23   | 19,900 23   |
| 1275   | 6500             | 5 56             |  |   |   |   | 20,800 26   | 20,800 26   | 20,700 26   |
| 1323   | 6750             | 5 99             |  |   |   |   |   | 21,600 29   | 21,600 29   |

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1 1/2" Water .273 ozs. per sq. inch | Static Pressure 2" Water .361 ozs. per sq. inch | Static Pressure 2 1/2" Water .434 ozs. per sq. inch | Static Pressure 3" Water .506 ozs. per sq. inch | Static Pressure 3 1/2" Water .578 ozs. per sq. inch | Static Pressure 4" Water .645 ozs. per sq. inch | Static Pressure 4 1/2" Water .713 ozs. per sq. inch |
|--------|------------------|------------------|---|---|---|---|---|---|---|
| 588    | 3000             | 1 19             | 3,900 1 05  |   |   |   |   |   |   |
| 627    | 3200             | 1 35             | 7,020 2 1   | 700 0 64  |   |   |   |   |   |
| 666    | 3400             | 1 52             | 8,300 2 8   | 6,180 2 1                                       |   |   |   |   |   |
| 705    | 3600             | 1 71             | 9,340 3 6   | 8,000 3 0                                       | 1,700 1 05  |   |   |   |   |
| 745    | 3800             | 1 90             | 10,400 4 4  | 9,240 3 9                                       | 7,600 3 2   | 916 1 1   |   |   |   |
| 785    | 4000             | 2 11             | 11,300 5 4  | 10,300 4 9                                      | 9,160 4 3   | 6,980 3 3                                       |   |   |   |
| 824    | 4200             | 2 32             | 12,100 6 4  | 11,300 5 9                                      | 10,400 5 4  | 9,000 4 6                                       | 2,640 1 8   |   |   |
| 862    | 4400             | 2 55             | 12,900 7 5  | 12,200 7 1                                      | 11,420 6 5  | 10,400 5 9                                      | 8,800 4 8   |   |   |
| 901    | 4600             | 2 78             | 13,700 8 6  | 13,100 8 2                                      | 12,420 7 8  | 11,500 7 2                                      | 10,600 6 5  | 1,654 2 1                                       |   |
| 941    | 4800             | 3 03             | 14,500 9 9  | 14,000 9 6                                      | 13,360 9 2  | 12,600 8 6                                      | 11,700 7 9  | 8,640 5 9                                       |   |
| 980    | 5000             | 3 29             | 15,200 11   | 14,800 11                                       | 14,240 11   | 13,600 11 0                                     | 12,800 9 6  | 10,600 7 8                                      | 1,150 2 6   |
| 1030   | 5250             | 3 63             | 16,100 13   | 15,800 13                                       | 15,260 13   | 14,700 12 0                                     | 14,000 11 5   | 12,400 10                                       | 9,360 7 6   |
| 1078   | 5500             | 3 98             | 17,100 15   | 16,700 15                                       | 16,280 15   | 15,800 14 0                                     | 15,200 14 0   | 13,800 12                                       | 11,800 10 5   |
| 1128   | 5750             | 4 35             | 17,900 17   | 17,600 17                                       | 17,240 17   | 16,800 16 5                                     | 16,300 16 0   | 15,100 15                                       | 13,500 13   |
| 1177   | 6000             | 4 74             | 18,900 20   | 18,500 20                                       | 18,220 19   | 17,800 19                                       | 17,400 18 5   | 16,300 17                                       | 15,000 16   |
| 1225   | 6250             | 5 14             | 19,700 23   | 19,500 22                                       | 19,140 22   | 18,800 22                                       | 18,400 21   | 17,400 20                                       | 16,300 19   |
| 1275   | 6500             | 5 56             | 20,600 25   | 20,200 25                                       | 20,000 25   | 19,700 25                                       | 19,300 24   | 18,500 23                                       | 17,500 22   |
| 1323   | 6750             | 5 99             | 21,400 29   | 21,200 28                                       | 21,000 28   | 20,600 28                                       | 20,400 27   | 19,600 27                                       | 18,700 25   |
| 1372   | 7000             | 6 45             | 22,400 32   | 22,200 32                                       | 21,800 32   | 21,600 31                                       | 21,200 31   | 20,600 30                                       | 19,800 29   |
| 1471   | 7500             | 7 40             | 24,000 40   | 23,800 39                                       | 23,600 39   | 23,400 38                                       | 23,200 38   | 22,600 38                                       | 22,000 37   |
| 1569   | 8000             | 8 41             | 25,600 48   | 25,400 48                                       | 25,400 47   | 25,200 47                                       | 25,000 47   | 24,400 46                                       | 24,000 46   |
| 1668   | 8500             | 9 50             | 27,400 58   | 27,000 57                                       | 27,000 57   | 27,000 56                                       | 26,800 56   | 26,200 56                                       | 25,800 56   |

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 5" Water 2.02 ozs. per sq. inch | Static Pressure 6" Water 2.31 ozs. per sq. inch | Static Pressure 7" Water 2.89 ozs. per sq. inch | Static Pressure 8" Water 3.47 ozs. per sq. inch | Static Pressure 9" Water 4.05 ozs. per sq. inch | Static Pressure 10" Water 4.63 ozs. per sq. inch | Static Pressure 11" Water 5.22 ozs. per sq. inch |
|--------|------------------|------------------|---|---|---|---|---|--|--|
| 1078   | 5500             | 3 98             | 2,600 3 7                                       |   |   |   |   |  |  |
| 1128   | 5750             | 4 35             | 11,100 11                                       |   |   |   |   |  |  |
| 1177   | 6000             | 4 74             | 13,200 11                                       | 6,680 6 8                                       |   |   |   |  |  |
| 1225   | 6250             | 5 14             | 14,800 17                                       | 12,800 14 5                                     |   |   |   |  |  |
| 1275   | 6500             | 5 56             | 16,300 20                                       | 14,800 18                                       | 2,320 5 9                                       |   |   |  |  |
| 1323   | 6750             | 5 99             | 17,600 24                                       | 16,300 22                                       | 11,500 15                                       |   |   |  |  |
| 1372   | 7000             | 6 45             | 18,800 27                                       | 17,700 25                                       | 14,500 21                                       | 13,500 6 3                                      |   |  |  |
| 1471   | 7500             | 7 40             | 21,200 35                                       | 20,200 31                                       | 17,900 29                                       | 14,200 23                                       | 1,060 7 5                                       |  |  |
| 1569   | 8000             | 8 41             | 23,200 44                                       | 22,600 43                                       | 20,800 39                                       | 18,300 34                                       | 13,900 26                                       | 950 8 5  |  |
| 1668   | 8500             | 9 50             | 25,200 54                                       | 24,600 52                                       | 23,200 50                                       | 21,200 45                                       | 18,900 40                                       | 12,700 30  | 1,136 11   |
| 1764   | 9000             | 10 67            | 27,000 64                                       | 26,600 64                                       | 25,400 62                                       | 24,000 58                                       | 22,000 52                                       | 19,460 46  | 10,020 25  |
| 1862   | 9500             | 11 89            | 29,000 78                                       | 28,600 78                                       | 27,600 74                                       | 26,200 70                                       | 24,600 66                                       | 22,800 60  | 20,400 54  |
| 1960   | 10000            | 13 17            | 30,800 90                                       | 30,400 90                                       | 29,600 88                                       | 28,400 84                                       | 27,200 82                                       | 25,600 76  | 23,600 70  |

Double Inlet

## No. 5 Multivane Fan—Design 3

Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M. H. P. Static Pressure 1" Water .0722 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1½" Water .145 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 2" Water .217 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 2½" Water .289 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 3" Water .361 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 3½" Water .434 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 4" Water .506 ozs. per sq. inch |
|--------|------------------|------------------|--|--|---|--|---|--|---|
| 176    | 1075             | 0 152            | 902 0 38   |  |   |  |   |  |   |
| 202    | 1200             | 0 189            | 3,980 0 17   |  |   |  |   |  |   |
| 225    | 1400             | 0 258            | 5,310 0 31   | 112 0 064  |   |  |   |  |   |
| 269    | 1600             | 0 337            | 6,180 0 49   | 4,780 0 36   |   |  |   |  |   |
| 302    | 1800             | 0 426            | 7,500 0 72   | 6,380 0 61   | 1,156 0 17  |  |   |  |   |
| 336    | 2000             | 0 526            | 8,500 0 99   | 7,680 0 92   | 6,210 0 73  | 324 0 18   |   |  |   |
| 370    | 2200             | 0 636            | 9,480 1 35   | 8,820 1 25   | 7,800 1 10  | 6,080 0 86   | 112 0 22  |  |   |
| 404    | 2400             | 0 759            | 10,400 1 75  | 9,860 1 7  | 9,100 1 55  | 7,960 1 35   | 5,920 1 0   | 84 0 29  |   |
| 447    | 2600             | 0 889            | 11,300 2 2   | 10,900 2 2   | 10,300 2 1  | 9,400 1 9  | 8,200 1 6   | 5,880 1 2  |   |
| 470    | 2800             | 1 03             |  | 11,900 2 7   | 11,400 2 7  | 10,900 2 5   | 9,800 2 3   | 8,340 1 9  | 5,920 1 5   |
| 501    | 3000             | 1 19             |  | 12,900 3 4   | 12,400 3 3  | 11,800 3 2   | 11,100 3 0  | 10,200 2 7   | 9,020 2 4   |
| 538    | 3200             | 1 35             |  | 13,800 4 1   | 13,400 4 0  | 13,000 4 0   | 12,300 3 8  | 11,600 3 5   | 10,720 3 3  |
| 571    | 3400             | 1 52             |  | 14,800 5 0   | 14,400 4 9  | 14,000 4 8   | 13,500 4 7  | 13,000 4 4   | 12,200 4 2  |
| 605    | 3600             | 1 71             |  | 15,700 6 0   | 15,300 5 8  | 15,000 5 8   | 14,600 5 6  | 14,060 5 1   | 13,500 5 2  |
| 639    | 3800             | 1 90             |  | 16,600 7 1   | 16,300 6 9  | 16,000 6 8   | 15,600 6 7  | 15,200 6 5   | 14,700 6 3  |
| 672    | 4000             | 2 11             |  |  | 17,300 8 1  | 17,000 8 0   | 16,600 7 9  | 16,300 7 8   | 15,800 7 6  |
| 705    | 4200             | 2 32             |  |  | 18,300 9 5  | 17,900 9 3   | 17,700 9 2  | 17,400 9 1   | 16,900 8 9  |
| 740    | 4400             | 2 55             |  |  | 19,200 11   | 18,900 11 0  | 18,700 10 5   | 18,300 10 5  | 18,000 10 5   |
| 773    | 4600             | 2 78             |  |  | 20,200 13   | 19,900 12 0  | 19,600 12 0   | 19,300 12 0  | 19,000 12 0   |
| 807    | 4800             | 3 03             |  |  |   | 20,800 14 0  | 20,600 14 0   | 20,400 14 0  | 20,000 13 5   |
| 840    | 5000             | 3 29             |  |  |   | 21,800 16 0  | 21,600 16 0   | 21,200 15 5  | 21,000 15 5   |
| 882    | 5250             | 3 63             |  |  |   | 23,000 18 5  | 22,800 18 5   | 22,600 18  | 22,200 18   |
| 925    | 5500             | 3 98             |  |  |   |  | 21,000 21   | 23,600 21  | 23,100 21   |
| 966    | 5750             | 4 35             |  |  |   |  | 25,200 24   | 25,000 24  | 24,800 24   |
| 1009   | 6000             | 4 74             |  |  |   |  | 26,300 28   | 26,100 28  | 26,000 27   |
| 1050   | 6250             | 5 14             |  |  |   |  |   | 27,300 31  | 27,100 31   |
| 1092   | 6500             | 5 56             |  |  |   |  |   | 28,100 35  | 28,200 35   |
| 1131   | 6750             | 5 99             |  |  |   |  |   |  | 29,400 39   |

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 ozs. per sq. inch | Static Pressure 1½" Water .723 ozs. per sq. inch | Static Pressure 2" Water .878 ozs. per sq. inch | Static Pressure 2½" Water 1.01 ozs. per sq. inch | Static Pressure 3" Water 1.16 ozs. per sq. inch | Static Pressure 3½" Water 1.45 ozs. per sq. inch | Static Pressure 4" Water 1.73 ozs. per sq. inch |
|--------|------------------|------------------|---|--|---|--|---|--|---|
| 501    | 3000             | 1 19             | 5,320 1 45                                      |  |   |  |   |  |   |
| 538    | 3200             | 1 35             | 9,560 2 9                                       | 954 0 87   |   |  |   |  |   |
| 571    | 3400             | 1 52             | 11,300 3 8                                      | 8,420 2 9  |   |  |   |  |   |
| 605    | 3600             | 1 71             | 12,000 4 9                                      | 10,900 4 1                                       | 2,320 1 45                                      |  |   |  |   |
| 639    | 3800             | 1 90             | 14,100 6 1                                      | 12,000 5 4                                       | 10,400 4 4                                      | 1,250 1 5  |   |  |   |
| 672    | 4000             | 2 11             | 15,300 7 3                                      | 14,100 6 7                                       | 12,500 5 9                                      | 9,500 4 5  |   |  |   |
| 705    | 4200             | 2 32             | 16,500 8 7                                      | 15,500 8 1                                       | 14,160 7 4                                      | 12,300 6 3                                       | 3,620 2 5                                       |  |   |
| 740    | 4400             | 2 55             | 17,700 10 0                                     | 16,700 9 6                                       | 15,580 8 9                                      | 14,200 8 1                                       | 12,000 6 6                                      |  |   |
| 773    | 4600             | 2 78             | 18,700 12 0                                     | 17,900 11 0                                      | 16,940 11                                       | 15,700 9 9                                       | 14,400 8 9                                      | 2,260 2 9  |   |
| 807    | 4800             | 3 03             | 19,700 13 5                                     | 19,000 13 0                                      | 18,200 12                                       | 17,200 12 0                                      | 15,920 11 0                                     | 11,800 8 0                                       |   |
| 840    | 5000             | 3 29             | 20,800 15 5                                     | 20,200 15 0                                      | 19,400 15                                       | 18,500 14 0                                      | 17,440 13 0                                     | 14,500 10 5                                      | 1,970 3 5                                       |
| 882    | 5250             | 3 63             | 22,000 18                                       | 21,600 17 5                                      | 20,800 17                                       | 20,000 16 5                                      | 19,120 15 5                                     | 16,900 13 5                                      | 12,800 10 5                                     |
| 925    | 5500             | 3 98             | 23,200 21                                       | 22,800 20  | 22,200 20                                       | 21,600 19 5                                      | 20,800 19                                       | 18,800 17  | 16,100 14                                       |
| 966    | 5750             | 4 35             | 24,400 24                                       | 24,000 23  | 23,600 23                                       | 23,000 23  | 22,200 22                                       | 20,600 20  | 18,500 18                                       |
| 1009   | 6000             | 4 74             | 25,800 27                                       | 25,400 27  | 24,800 27                                       | 24,200 26  | 23,600 25                                       | 22,200 21  | 20,400 22                                       |
| 1050   | 6250             | 5 14             | 27,000 31                                       | 26,600 30  | 26,200 30                                       | 25,000 30  | 25,000 29                                       | 23,800 28  | 22,200 26                                       |
| 1092   | 6500             | 5 56             | 28,000 35                                       | 27,600 34  | 27,400 34                                       | 27,000 34  | 26,400 33                                       | 25,400 32  | 24,000 30                                       |
| 1131   | 6750             | 5 99             | 29,200 39                                       | 29,000 39  | 28,600 38                                       | 28,200 38  | 27,800 37                                       | 26,600 36  | 25,400 35                                       |
| 1177   | 7000             | 6 45             | 30,400 44                                       | 30,200 43  | 29,400 43                                       | 29,400 42  | 29,000 42                                       | 28,000 41  | 27,000 39                                       |
| 1260   | 7500             | 7 40             | 32,800 54                                       | 32,600 54  | 32,200 54                                       | 31,800 52  | 31,600 52                                       | 30,800 52  | 30,000 50                                       |
| 1344   | 8000             | 8 41             | 34,800 66                                       | 34,600 66  | 34,000 64                                       | 34,400 64  | 34,000 64                                       | 33,400 62  | 32,600 62                                       |
| 1430   | 8500             | 9 50             | 37,200 80                                       | 37,200 80  | 37,000 78                                       | 36,600 78  | 36,400 76                                       | 35,800 76  | 35,200 76                                       |

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 3½" Water 2.02 ozs. per sq. inch | Static Pressure 4" Water 2.31 ozs. per sq. inch | Static Pressure 5" Water 2.89 ozs. per sq. inch | Static Pressure 6" Water 3.47 ozs. per sq. inch | Static Pressure 7" Water 4.05 ozs. per sq. inch | Static Pressure 8" Water 4.63 ozs. per sq. inch | Static Pressure 9" Water 5.2 ozs. per sq. inch |
|--------|------------------|------------------|--|---|---|---|---|---|--|
| 925    | 5500             | 3 98             | 3,540 5 1  |   |   |   |   |   |  |
| 966    | 5750             | 4 35             | 15,120 14 5                                      |   |   |   |   |   |  |
| 1009   | 6000             | 4 74             | 18,010 19  | 9,100 9 2                                       |   |   |   |   |  |
| 1050   | 6250             | 5 14             | 20,200 23  | 17,500 20                                       |   |   |   |   |  |
| 1092   | 6500             | 5 56             | 22,200 28  | 20,200 25                                       | 3,160 8   |   |   |   |  |
| 1131   | 6750             | 5 99             | 24,000 32  | 22,200 30                                       | 15,700 21                                       |   |   |   |  |
| 1177   | 7000             | 6 45             | 25,800 37  | 24,200 35                                       | 19,800 28                                       | 1,840 8 6                                       |   |   |  |
| 1260   | 7500             | 7 40             | 28,800 48  | 27,600 46                                       | 24,400 40                                       | 19,320 32                                       | 1,440 10  |   |  |
| 1344   | 8000             | 8 41             | 31,800 60  | 30,800 58                                       | 28,200 54                                       | 25,000 47                                       | 19,000 36                                       | 1,300 11 5                                      |  |
| 1430   | 8500             | 9 50             | 34,100 74  | 33,600 72                                       | 31,600 68                                       | 29,000 62                                       | 25,800 54                                       | 17,300 41                                       | 1,550 15                                       |
| 1511   | 9000             | 10 67            | 37,000 88  | 36,400 88                                       | 34,600 84                                       | 32,600 80                                       | 30,000 72                                       | 26,600 62                                       | 13,700 34                                      |
| 1598   | 9500             | 11 89            | 39,600 105                                       | 39,000 105                                      | 37,000 100                                      | 35,800 96                                       | 33,600 90                                       | 31,000 82                                       | 27,800 74                                      |
| 1680   | 10000            | 13 17            | 42,000 125                                       | 41,600 125                                      | 40,400 120                                      | 38,800 115                                      | 37,000 110                                      | 35,000 105                                      | 32,400 94                                      |

Double Inlet

## No. 6 Multivane Fan—Design 3

Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M. H. P. Static Pressure 1/4" Water .0722 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1/4" Water .145 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 3/4" Water .217 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1 1/2" Water .289 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 2" Water .361 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 3" Water .434 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1 1/2" Water .506 ozs. per sq. inch |
|--------|------------------|------------------|--|---|---|---|---|---|---|
| 154    | 1075             | 0 152            | 1,178 0 05   |   |   |   |   |   |   |
| 176    | 1200             | 0 189            | 5,200 0 22   |   |   |   |   |   |   |
| 206    | 1400             | 0 258            | 6,960 0 41   | 184 0 084   |   |   |   |   |   |
| 235    | 1600             | 0 337            | 8,440 0 61   | 6,220 0 47  |   |   |   |   |   |
| 265    | 1800             | 0 426            | 9,780 0 91   | 8,320 0 80  | 1,508 0 23  |   |   |   |   |
| 294    | 2000             | 0 526            | 11,080 1 30  | 10,000 1 20   | 8,110 0 95  | 422 0 21  |   |   |   |
| 324    | 2200             | 0 636            | 12,340 1 75  | 11,500 1 65   | 10,160 1 45   | 7,940 1 10  | 146 0 29  |   |   |
| 353    | 2400             | 0 759            | 13,600 2 3   | 12,860 2 2  | 11,880 2 0  | 10,400 1 75   | 7,740 1 3   | 110 0 37  |   |
| 382    | 2600             | 0 889            | 14,780 2 9   | 14,200 2 8  | 13,100 2 7  | 12,280 2 5  | 10,700 2 1  | 7,660 1 55  |   |
| 412    | 2800             | 1 03             |  | 15,500 3 6  | 14,800 3 5  | 13,940 3 3  | 12,780 3 0  | 10,900 2 5  | 7,720 1 95  |
| 441    | 3000             | 1 19             |  | 16,800 4 4  | 16,200 4 3  | 15,440 4 1  | 14,500 3 9  | 13,280 3 5  | 11,780 3 1  |
| 470    | 3200             | 1 35             |  | 18,000 5 4  | 17,520 5 3  | 16,900 5 2  | 16,100 4 9  | 15,180 4 6  | 14,000 4 3  |
| 500    | 3400             | 1 52             |  | 19,280 6 5  | 18,800 6 4  | 18,240 6 2  | 17,600 6 2  | 16,900 5 8  | 15,900 5 4  |
| 529    | 3600             | 1 71             |  | 20,400 7 8  | 20,000 7 6  | 19,600 7 5  | 19,080 7 4  | 18,310 7 1  | 17,600 6 8  |
| 559    | 3800             | 1 90             |  | 21,800 9 2  | 21,400 9 0  | 20,800 8 8  | 20,400 8 7  | 19,820 8 5  | 19,140 8 3  |
| 588    | 4000             | 2 11             |  |   | 22,600 10 5   | 22,200 10 5   | 21,800 10 5   | 21,200 10 0   | 20,600 9 9  |
| 618    | 4200             | 2 32             |  |   | 23,800 12 5   | 23,400 12   | 23,000 12   | 22,600 12 0   | 22,200 11 5   |
| 647    | 4400             | 2 55             |  |   | 25,000 14 5   | 24,800 14   | 24,400 14   | 23,800 13 5   | 23,600 13 5   |
| 676    | 4600             | 2 78             |  |   | 26,200 16   | 26,000 16   | 25,600 16   | 25,200 15 5   | 24,800 15 5   |
| 706    | 4800             | 3 03             |  |   |   | 27,200 18   | 26,800 18   | 26,600 18   | 26,200 18   |
| 735    | 5000             | 3 29             |  |   |   | 28,400 21   | 28,200 21   | 27,800 20   | 27,400 20   |
| 772    | 5250             | 3 63             |  |   |   | 30,000 24   | 29,800 24   | 29,400 24   | 29,000 23   |
| 809    | 5500             | 3 98             |  |   |   |   | 31,200 28   | 30,800 27   | 30,600 27   |
| 846    | 5750             | 4 35             |  |   |   |   | 32,800 32   | 32,600 31   | 32,200 31   |
| 882    | 6000             | 4 74             |  |   |   |   | 34,200 36   | 34,000 36   | 33,800 36   |
| 919    | 6250             | 5 14             |  |   |   |   |   | 35,600 41   | 35,400 40   |
| 955    | 6500             | 5 56             |  |   |   |   |   | 37,200 46   | 36,800 46   |
| 992    | 6750             | 5 99             |  |   |   |   |   |   | 38,400 52   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 ozs. per sq. inch                        | Static Pressure 1 1/2" Water .723 ozs. per sq. inch                   | Static Pressure 2" Water .878 ozs. per sq. inch                       | Static Pressure 2 1/2" Water 1.01 ozs. per sq. inch                     | Static Pressure 3" Water 1.16 ozs. per sq. inch                     | Static Pressure 3 1/2" Water 1.45 ozs. per sq. inch                 | Static Pressure 4" Water 1.73 ozs. per sq. inch                         |
| 441    | 3000             | 1 19             | 6,920 1 9  |   |   |   |   |   |   |
| 470    | 3200             | 1 35             | 12,500 3 7   | 1,240 1 15  |   |   |   |   |   |
| 500    | 3400             | 1 52             | 14,740 5 0   | 11,000 3 7  | 3,020 1 85  |   |   |   |   |
| 529    | 3600             | 1 71             | 16,620 6 4   | 14,260 5 4  | 16,500 7 0  | 1,630 1 95  |   |   |   |
| 559    | 3800             | 1 90             | 18,140 7 9   | 16,500 7 0  | 18,280 7 6  | 12,400 5 8  |   |   |   |
| 588    | 4000             | 2 11             | 20,000 9 6   | 18,400 8 7  |   | 16,020 8 3  | 4,720 3 2   |   |   |
| 618    | 4200             | 2 32             | 21,600 11 5  | 20,200 10 5   | 18,480 9 6  | 18,520 10 5   | 15,640 8 6  |   |   |
| 647    | 4400             | 2 55             | 23,000 13 5  | 21,800 12 5   | 20,400 11 5   | 20,600 13   | 18,800 11 5   | 2,940 3 7   |   |
| 676    | 4600             | 2 78             | 24,400 15 5  | 23,400 14 5   | 22,200 14   | 22,400 15   | 20,800 14   | 15,380 10 5   |   |
| 706    | 4800             | 3 03             | 25,800 17 5  | 24,800 17 0   | 23,800 16   |   |   |   |   |
| 735    | 5000             | 3 29             | 27,000 20  | 26,400 19 5   | 25,400 19   | 24,200 18   | 22,800 17   | 19,940 14   | 2,580 4 6   |
| 772    | 5250             | 3 63             | 28,800 23  | 28,000 23   | 27,200 22   | 26,200 21   | 25,000 20   | 22,000 19   | 16,680 13 5   |
| 809    | 5500             | 3 98             | 30,100 27  | 29,800 27   | 29,000 26   | 28,000 25   | 27,000 24   | 24,600 22   | 21,000 18 5   |
| 846    | 5750             | 4 35             | 31,800 31  | 30,400 31   | 30,800 30   | 30,000 30   | 29,000 29   | 27,000 26   | 24,000 23   |
| 882    | 6000             | 4 74             | 33,600 35  | 33,000 35   | 32,400 35   | 31,600 34   | 30,800 33   | 29,000 31   | 26,600 28   |
| 919    | 6250             | 5 14             | 35,200 40  | 34,600 40   | 34,000 39   | 33,400 39   | 32,600 38   | 31,000 36   | 29,000 34   |
| 955    | 6500             | 5 56             | 36,600 45  | 36,000 45   | 35,600 44   | 35,200 44   | 34,400 43   | 33,000 42   | 31,200 39   |
| 992    | 6750             | 5 99             | 38,200 50  | 37,800 50   | 37,200 50   | 36,800 49   | 36,200 49   | 34,800 47   | 33,200 45   |
| 1030   | 7000             | 6 45             | 39,800 56  | 39,400 56   | 38,800 56   | 38,400 56   | 37,800 54   | 36,600 54   | 35,200 52   |
| 1103   | 7500             | 7 40             | 42,800 70  | 42,400 70   | 42,000 70   | 41,600 68   | 41,200 68   | 40,200 66   | 39,000 66   |
| 1178   | 8000             | 8 51             |  | 45,100 84   | 45,200 84   | 44,800 84   | 44,400 82   | 43,100 82   | 42,600 82   |
| 1250   | 8500             | 9 50             |  | 48,600 105  | 48,200 100  | 47,800 100  | 47,600 100  | 46,600 100  | 46,000 98   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 3 1/2" Water 2.02 ozs. per sq. inch                    | Static Pressure 4" Water 2.31 ozs. per sq. inch                       | Static Pressure 5" Water 2.89 ozs. per sq. inch                       | Static Pressure 6" Water 3.47 ozs. per sq. inch                         | Static Pressure 7" Water 4.05 ozs. per sq. inch                     | Static Pressure 8" Water 4.63 ozs. per sq. inch                     | Static Pressure 9" Water 5.2 ozs. per sq. inch                          |
| 809    | 5500             | 3 98             | 1,600 6 7  |   |   |   |   |   |   |
| 846    | 5750             | 4 35             | 19,720 19  |   |   |   |   |   |   |
| 882    | 6000             | 4 74             | 23,600 25  | 11,880 12   |   |   |   |   |   |
| 919    | 6250             | 5 14             | 26,100 30  | 22,800 23   |   |   |   |   |   |
| 955    | 6500             | 5 56             | 29,000 36  | 26,200 33   | 4,120 10 5  |   |   |   |   |
| 992    | 6750             | 5 99             | 31,200 42  | 29,000 39   | 20,100 27   |   |   |   |   |
| 1030   | 7000             | 6 45             | 33,600 49  | 31,400 45   | 25,800 37   | 2,400 11  |   |   |   |
| 1103   | 7500             | 7 45             | 37,600 64  | 36,000 60   | 31,800 52   | 25,200 42   | 1,880 13 5  |   |   |
| 1178   | 8000             | 8 41             | 41,200 80  | 40,000 76   | 36,800 70   | 32,600 60   | 24,800 47   | 1,600 15  |   |
| 1250   | 8500             | 9 50             | 44,800 96  | 43,800 94   | 41,200 88   | 37,600 80   | 33,600 70   | 22,600 54   |   |
| 1324   | 9000             | 10 67            | 48,200 115   | 47,100 115  | 45,200 110  | 42,400 105  | 39,000 94   | 34,600 82   | 17,800 44   |
| 1398   | 9500             | 11 89            | 51,600 135   | 50,800 135  | 49,000 130  | 46,600 125  | 43,800 115  | 40,400 110  | 36,200 96   |
| 1470   | 10000            | 13 17            | 54,800 160   | 54,200 160  | 52,600 155  | 50,600 150  | 48,200 145  | 45,600 135  | 42,200 125  |



Double Inlet

## No. 6½ Multivane Fan — Design 3

Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.<br>Static Pressure 1/2" Water .0722 oza. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure 1/2" Water .145 oza. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure 3/4" Water .217 oza. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure 1" Water .289 oza. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure 1 1/4" Water .361 oza. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure 1 1/2" Water .434 oza. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure 1 3/4" Water .506 oza. per sq. inch | H. P. |
|--------|------------------|------------------|---|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|
| 137    | 1075             | 0.152            | 1,190   | 0.061 |  |       |  |       |  |       |  |       |  |       |  |       |
| 157    | 1200             | 0.189            | 6,560   | 0.28  |  |       |  |       |  |       |  |       |  |       |  |       |
| 183    | 1400             | 0.258            | 8,800   | 0.52  | 231  | 0.105 |  |       |  |       |  |       |  |       |  |       |
| 209    | 1600             | 0.537            | 10,680  | 0.81  | 7,880  | 0.39  |  |       |  |       |  |       |  |       |  |       |
| 235    | 1800             | 0.126            | 12,360  | 1.20  | 10,520   | 1.0   | 1,904  | 0.30  |  |       |  |       |  |       |  |       |
| 262    | 2000             | 0.526            | 14,000  | 1.65  | 12,660   | 1.5   | 10,300   | 1.20  | 534  | 0.3   |  |       |  |       |  |       |
| 288    | 2200             | 0.636            | 15,600  | 2.2   | 14,520   | 2.1   | 12,840   | 1.85  | 10,020   | 1.4   | 184  | 0.36  |  |       |  |       |
| 314    | 2400             | 0.759            | 17,180  | 2.9   | 16,260   | 2.8   | 15,000   | 2.6   | 13,140   | 2.2   | 9,780  | 1.65  | 110  | 0.47  |  |       |
| 340    | 2600             | 0.889            | 18,680  | 3.7   | 17,920   | 3.6   | 16,920   | 3.4   | 15,520   | 3.1   | 13,520   | 2.7   | 9,680  | 1.95  |  |       |
| 366    | 2800             | 1.03             |   |       | 19,600   | 4.5   | 18,720   | 4.4   | 17,640   | 4.1   | 16,140   | 3.7   | 13,760   | 3.2   | 9,760  | 2.5   |
| 392    | 3000             | 1.19             |   |       | 21,200   | 5.6   | 20,400   | 5.5   | 19,520   | 5.2   | 18,340   | 4.9   | 16,840   | 4.5   | 14,900   | 3.9   |
| 418    | 3200             | 1.35             |   |       | 22,800   | 6.8   | 22,200   | 6.7   | 21,400   | 6.5   | 20,400   | 6.2   | 19,200   | 5.8   | 17,680   | 5.4   |
| 444    | 3400             | 1.52             |   |       | 24,400   | 8.2   | 23,800   | 8.0   | 23,000   | 7.9   | 22,200   | 7.8   | 21,400   | 7.3   | 20,200   | 6.9   |
| 470    | 3600             | 1.71             |   |       | 25,800   | 9.9   | 25,400   | 9.6   | 24,800   | 9.5   | 24,200   | 9.3   | 23,200   | 8.9   | 22,200   | 8.6   |
| 496    | 3800             | 1.90             |   |       | 27,400   | 11.5  | 27,000   | 11.5  | 26,400   | 11    | 25,800   | 11.0  | 25,000   | 11.0  | 24,200   | 10.5  |
| 523    | 4000             | 2.11             |   |       | 28,600   | 13.0  | 28,600   | 13.0  | 28,000   | 13    | 27,100   | 13.0  | 27,000   | 13.0  | 26,000   | 12.5  |
| 549    | 4200             | 2.32             |   |       |  |       | 30,200   | 15.5  | 29,600   | 15    | 29,200   | 15.0  | 28,600   | 15.0  | 28,000   | 14.5  |
| 575    | 4400             | 2.55             |   |       |  |       | 31,600   | 18    | 31,200   | 18    | 30,800   | 17.5  | 30,200   | 17.5  | 29,800   | 17.0  |
| 601    | 4600             | 2.78             |   |       |  |       | 33,200   | 21    | 32,800   | 20    | 32,400   | 20    | 31,800   | 20    | 31,400   | 19.5  |
| 627    | 4800             | 3.03             |   |       |  |       |  |       | 34,400   | 23    | 34,000   | 23    | 33,600   | 23    | 33,200   | 22    |
| 654    | 5000             | 3.29             |   |       |  |       |  |       | 36,000   | 26    | 35,600   | 26    | 35,200   | 26    | 34,800   | 25    |
| 686    | 5250             | 3.63             |   |       |  |       |  |       | 37,800   | 31    | 37,600   | 30    | 37,200   | 30    | 36,800   | 30    |
| 719    | 5500             | 3.98             |   |       |  |       |  |       |  |       | 39,400   | 35    | 39,000   | 34    | 38,600   | 34    |
| 751    | 5750             | 4.35             |   |       |  |       |  |       |  |       | 41,400   | 40    | 41,200   | 40    | 40,800   | 39    |
| 785    | 6000             | 4.74             |   |       |  |       |  |       |  |       | 43,400   | 46    | 43,400   | 45    | 42,800   | 45    |
| 816    | 6250             | 5.11             |   |       |  |       |  |       |  |       |  |       | 45,000   | 52    | 44,800   | 52    |
| 850    | 6500             | 5.56             |   |       |  |       |  |       |  |       |  |       | 47,000   | 58    | 46,600   | 58    |
| 882    | 6750             | 5.99             |   |       |  |       |  |       |  |       |  |       |  |       | 48,600   | 64    |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 oza. per sq. inch                     | H. P. | Static Pressure 1 1/4" Water .723 oza. per sq. inch                | H. P. | Static Pressure 1 1/2" Water .875 oza. per sq. inch                | H. P. | Static Pressure 1 3/4" Water 1.01 oza. per sq. inch              | H. P. | Static Pressure 2" Water 1.16 oza. per sq. inch                      | H. P. | Static Pressure 2 1/4" Water 1.45 oza. per sq. inch                  | H. P. | Static Pressure 2 1/2" Water 1.73 oza. per sq. inch                  | H. P. |
| 392    | 3000             | 1.19             | 8,760   | 2.4   |  |       |  |       |  |       |  |       |  |       |  |       |
| 418    | 3200             | 1.35             | 15,780  | 4.7   | 1,576  | 1.45  |  |       |  |       |  |       |  |       |  |       |
| 444    | 3400             | 1.52             | 18,640  | 6.3   | 13,900   | 4.7   |  |       |  |       |  |       |  |       |  |       |
| 470    | 3600             | 1.71             | 21,000  | 8.0   | 18,020   | 6.8   | 3,820  | 2.4   |  |       |  |       |  |       |  |       |
| 496    | 3800             | 1.90             | 23,400  | 10.0  | 20,800   | 8.8   | 17,100   | 7.2   | 2,060  | 2.5   |  |       |  |       |  |       |
| 523    | 4000             | 2.11             | 25,400  | 12.0  | 23,200   | 11.0  | 20,600   | 9.7   | 15,680   | 7.4   |  |       |  |       |  |       |
| 549    | 4200             | 2.32             | 27,200  | 14.0  | 25,600   | 13.5  | 23,400   | 12.0  | 20,200   | 10.5  | 5,960  | 4.1   |  |       |  |       |
| 575    | 4400             | 2.55             | 29,200  | 17.0  | 27,600   | 16.0  | 25,800   | 15.0  | 23,400   | 13.0  | 19,780   | 11.0  |  |       |  |       |
| 601    | 4600             | 2.78             | 30,800  | 19.5  | 29,600   | 18.5  | 28,000   | 17.5  | 26,000   | 16.0  | 23,800   | 14.5  | 3,720  | 4.7   |  |       |
| 627    | 4800             | 3.03             | 32,600  | 22    | 31,400   | 22    | 30,000   | 21    | 28,200   | 19.5  | 26,400   | 18    | 19,440   | 13.0  |  |       |
| 654    | 5000             | 3.29             | 34,200  | 25    | 33,200   | 25    | 32,000   | 24    | 30,400   | 23    | 28,800   | 22    | 21,000   | 17.5  | 3,260  | 5.8   |
| 686    | 5250             | 3.63             | 36,400  | 29    | 35,400   | 29    | 34,400   | 28    | 33,200   | 27    | 31,600   | 26    | 27,800   | 22    | 21,000   | 17    |
| 719    | 5500             | 3.98             | 38,400  | 34    | 37,600   | 34    | 36,600   | 33    | 35,400   | 32    | 34,200   | 31    | 31,000   | 28    | 26,600   | 24    |
| 751    | 5750             | 4.35             | 40,200  | 39    | 39,600   | 39    | 38,800   | 38    | 37,800   | 37    | 36,600   | 36    | 34,000   | 33    | 30,400   | 30    |
| 785    | 6000             | 4.74             | 42,400  | 45    | 41,800   | 44    | 41,000   | 44    | 40,000   | 43    | 39,000   | 42    | 36,800   | 40    | 31,600   | 36    |
| 816    | 6250             | 5.14             | 44,400  | 50    | 43,800   | 50    | 43,000   | 50    | 42,200   | 49    | 41,200   | 48    | 39,200   | 46    | 36,600   | 42    |
| 850    | 6500             | 5.56             | 46,400  | 58    | 45,600   | 56    | 45,000   | 56    | 44,400   | 56    | 43,600   | 54    | 41,800   | 52    | 39,600   | 50    |
| 882    | 6750             | 5.99             | 48,400  | 64    | 47,800   | 64    | 47,200   | 64    | 46,400   | 62    | 45,800   | 62    | 44,000   | 60    | 42,000   | 58    |
| 915    | 7000             | 6.45             | 50,200  | 72    | 49,800   | 72    | 49,200   | 70    | 48,400   | 70    | 47,800   | 70    | 46,400   | 68    | 44,600   | 64    |
| 950    | 7500             | 7.40             | 51,000  | 90    | 53,600   | 88    | 53,000   | 88    | 52,000   | 86    | 52,000   | 86    | 50,800   | 84    | 49,400   | 82    |
| 1047   | 8000             | 8.41             |   |       | 57,400   | 110   | 57,000   | 110   | 56,000   | 110   | 56,000   | 105   | 54,800   | 105   | 54,000   | 105   |
| 1111   | 8500             | 9.50             |   |       | 61,400   | 130   | 60,800   | 130   | 60,400   | 130   | 60,000   | 130   | 59,000   | 125   | 58,000   | 125   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 3 1/2" Water 2.02 oza. per sq. inch                 | H. P. | Static Pressure 4" Water 2.31 oza. per sq. inch                    | H. P. | Static Pressure 5" Water 2.89 oza. per sq. inch                    | H. P. | Static Pressure 6" Water 3.47 oza. per sq. inch                  | H. P. | Static Pressure 7" Water 4.05 oza. per sq. inch                      | H. P. | Static Pressure 8" Water 4.63 oza. per sq. inch                      | H. P. | Static Pressure 9" Water 5.2 oza. per sq. inch                       | H. P. |
| 719    | 5500             | 3.98             | 5,840   | 8.4   |  |       |  |       |  |       |  |       |  |       |  |       |
| 751    | 5750             | 4.35             | 25,000  | 24    |  |       |  |       |  |       |  |       |  |       |  |       |
| 785    | 6000             | 4.74             | 29,800  | 31    | 15,020   | 15    |  |       |  |       |  |       |  |       |  |       |
| 816    | 6250             | 5.14             | 33,400  | 38    | 28,800   | 33    |  |       |  |       |  |       |  |       |  |       |
| 850    | 6500             | 5.56             | 36,800  | 45    | 33,200   | 41    | 5,200  | 13    |  |       |  |       |  |       |  |       |
| 882    | 6750             | 5.99             | 39,600  | 54    | 36,600   | 49    | 25,800   | 34    |  |       |  |       |  |       |  |       |
| 915    | 7000             | 6.45             | 42,400  | 62    | 39,800   | 58    | 32,600   | 47    | 3,040  | 14    |  |       |  |       |  |       |
| 950    | 7500             | 7.40             | 47,600  | 80    | 45,600   | 76    | 40,200   | 66    | 31,800   | 52    | 2,380  | 17    |  |       |  |       |
| 1047   | 8000             | 8.41             | 52,400  | 100   | 50,600   | 96    | 46,600   | 88    | 41,200   | 76    | 31,400   | 60    | 2,140  | 19    |  |       |
| 1111   | 8500             | 9.50             | 56,800  | 125   | 55,100   | 120   | 52,200   | 110   | 47,600   | 105   | 42,600   | 90    | 28,600   | 68    | 2,560  | 25    |
| 1177   | 9000             | 10.67            | 60,800  | 150   | 60,000   | 145   | 57,200   | 135   | 53,800   | 130   | 49,400   | 120   | 43,800   | 105   | 22,600   | 56    |
| 1242   | 9500             | 11.80            | 65,200  | 175   | 64,200   | 170   | 62,000   | 170   | 59,000   | 160   | 55,600   | 150   | 51,200   | 135   | 45,800   | 120   |
| 1308   | 10000            | 13.17            | 69,400  | 200   | 68,600   | 200   | 66,600   | 195   | 64,000   | 190   | 61,000   | 185   | 57,600   | 170   | 53,200   | 155   |

Double Inlet

## No. 7 Multivane Fan—Design 3

Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M. H. P. Static Pressure 1/2" Water .0722 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 3/4" Water .145 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1" Water .217 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1 1/4" Water .289 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1 1/2" Water .361 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1 3/4" Water .434 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 2" Water .506 ozs. per sq. inch |
|--------|------------------|------------------|--|---|---|---|---|---|---|
| 124    | 1075             | 0 152            | 1,810 0 078  |   |   |   |   |   |   |
| 141    | 1200             | 0 189            | 8,100 0 34   |   |   |   |   |   |   |
| 165    | 1400             | 0 258            | 10,900 0 61  | 288 0 13  |   |   |   |   |   |
| 188    | 1600             | 0 337            | 13,200 1 00  | 9,720 0 73  |   |   |   |   |   |
| 212    | 1800             | 0 426            | 15,200 1 45  | 13,000 1 25   | 2,360 0 36  |   |   |   |   |
| 235    | 2000             | 0 526            | 17,300 2 0   | 15,600 1 85   | 12,700 1 5  | 660 0 37  |   |   |   |
| 259    | 2200             | 0 636            | 19,300 2 7   | 17,900 2 6  | 15,000 2 3  | 12,400 1 75   | 226 0 45  |   |   |
| 282    | 2400             | 0 759            | 21,200 3 6   | 20,000 3 4  | 18,500 3 2  | 16,200 2 8  | 12,100 2 1  | 174 0 58  |   |
| 306    | 2600             | 0 889            | 23,000 4 5   | 22,200 4 4  | 21,000 4 2  | 19,200 3 8  | 16,700 3 3  | 11,900 2 4  |   |
| 329    | 2800             | 1 03             | 24,200 5 6   | 23,200 5 4  | 21,800 5 1  | 19,900 4 6  | 17,900 3 9  | 12,000 3 0  |   |
| 353    | 3000             | 1 19             | 26,200 6 9   | 25,200 6 8  | 24,200 6 4  | 22,600 6 1  | 20,800 5 5  | 18,400 4 9  |   |
| 376    | 3200             | 1 35             | 28,200 8 1   | 27,400 8 2  | 26,400 8 1  | 25,200 7 7  | 23,600 7 2  | 21,800 6 7  |   |
| 400    | 3400             | 1 52             | 30,000 10 0  | 29,400 9 9  | 28,400 9 7  | 27,400 9 6  | 26,400 9 0  | 24,800 8 5  |   |
| 424    | 3600             | 1 71             | 32,000 12 0  | 31,200 12 0   | 30,400 12   | 29,800 11 5   | 28,600 11 0   | 27,400 10 5   |   |
| 447    | 3800             | 1 90             | 34,000 11 5  | 33,200 14 0   | 32,600 14   | 31,800 13 5   | 31,000 13 5   | 29,800 13 0   |   |
| 471    | 4000             | 2 11             |  | 35,200 16 5   | 34,600 16   | 33,800 16 0   | 33,200 16 0   | 32,200 15 5   |   |
| 494    | 4200             | 2 32             |  | 37,200 19   | 36,400 19   | 36,000 18 5   | 35,400 18 5   | 34,600 18   |   |
| 517    | 4400             | 2 55             |  | 39,000 22   | 38,600 22   | 38,000 22   | 37,200 21   | 36,600 21   |   |
| 541    | 4600             | 2 78             |  | 41,000 25   | 40,400 25   | 40,000 25   | 39,400 24   | 38,800 24   |   |
| 565    | 4800             | 3 03             |  |   | 42,400 29   | 42,000 28   | 41,400 28   | 40,800 28   |   |
| 588    | 5000             | 3 29             |  |   | 44,400 32   | 44,000 32   | 43,400 32   | 42,800 31   |   |
| 618    | 5250             | 3 63             |  |   | 46,800 38   | 46,400 37   | 45,800 37   | 45,400 37   |   |
| 647    | 5500             | 3 98             |  |   |   | 48,800 43   | 48,200 43   | 47,800 42   |   |
| 676    | 5750             | 4 35             |  |   |   | 51,200 50   | 50,800 49   | 50,400 49   |   |
| 706    | 6000             | 4 74             |  |   |   | 53,400 56   | 53,200 56   | 52,800 56   |   |
| 735    | 6250             | 5 14             |  |   |   |   | 55,400 64   | 55,200 64   |   |
| 765    | 6500             | 5 56             |  |   |   |   | 58,000 72   | 57,800 72   |   |
| 794    | 6750             | 5 99             |  |   |   |   |   | 60,000 80   |   |
| 353    | 3000             | 1 19             | 10,800 2 9   |   |   |   |   |   |   |
| 376    | 3200             | 1 35             | 19,500 5 8   | 1,940 1 8   |   |   |   |   |   |
| 400    | 3400             | 1 52             | 23,000 7 8   | 17,100 5 8  |   |   |   |   |   |
| 424    | 3600             | 1 71             | 26,000 9 9   | 22,200 8 4  | 4,720 2 9   |   |   |   |   |
| 447    | 3800             | 1 90             | 28,800 12 5  | 25,800 11 0   | 21,200 8 9  | 2,540 3 0   |   |   |   |
| 471    | 4000             | 2 11             | 31,200 15 0  | 28,800 13 5   | 25,400 12   | 19,400 9 1  |   |   |   |
| 494    | 4200             | 2 32             | 33,600 17 5  | 31,600 16 5   | 28,800 15   | 25,000 13 0   | 7,380 5 0   |   |   |
| 517    | 4400             | 2 55             | 36,000 21  | 34,000 19 5   | 31,800 18   | 29,000 16 5   | 24,400 13 5   |   |   |
| 541    | 4600             | 2 78             | 38,000 24  | 36,400 23   | 34,600 22   | 32,000 20   | 29,400 18   | 4,000 5 8   |   |
| 565    | 4800             | 3 03             | 40,200 27  | 38,800 27   | 37,000 25   | 35,000 24   | 32,400 22   | 21,000 16   |   |
| 588    | 5000             | 3 29             | 42,400 31  | 41,000 31   | 39,600 30   | 37,600 28   | 35,600 27   | 29,000 22   | 4,020 7   |
| 618    | 5250             | 3 63             | 44,800 36  | 43,800 36   | 42,400 35   | 41,000 34   | 39,000 32   | 34,400 28   | 26,000 21   |
| 647    | 5500             | 3 98             | 47,400 42  | 46,400 41   | 45,200 41   | 43,800 39   | 42,200 38   | 38,400 34   | 32,800 29   |
| 676    | 5750             | 4 35             | 49,800 48  | 49,000 48   | 48,000 47   | 46,600 46   | 45,200 45   | 42,000 41   | 37,600 36   |
| 706    | 6000             | 4 74             | 52,400 56  | 51,600 54   | 50,800 54   | 49,400 52   | 48,200 52   | 45,400 48   | 41,600 44   |
| 735    | 6250             | 5 14             | 54,800 62  | 54,000 62   | 53,200 62   | 52,200 60   | 51,000 60   | 48,000 56   | 45,200 52   |
| 765    | 6500             | 5 56             | 57,200 70  | 56,200 70   | 55,600 70   | 54,800 68   | 53,600 68   | 51,600 64   | 48,800 62   |
| 794    | 6750             | 5 99             | 59,600 80  | 59,000 78   | 58,200 78   | 57,400 78   | 56,600 76   | 54,400 74   | 51,800 70   |
| 824    | 7000             | 6 45             | 62,000 88  | 61,400 88   | 60,600 88   | 60,000 86   | 59,200 86   | 57,200 84   | 55,000 80   |
| 882    | 7500             | 7 40             | 66,800 110   | 66,200 110  | 65,600 110  | 65,000 110  | 64,200 110  | 62,600 105  | 60,800 90   |
| 941    | 8000             | 8 11             |  | 70,800 130  | 70,400 130  | 69,800 135  | 69,200 130  | 67,800 130  | 66,400 100  |
| 1000   | 8500             | 9 50             |  | 75,800 160  | 75,200 160  | 74,600 160  | 74,200 155  | 72,800 155  | 71,600 150  |
| 617    | 5500             | 3 98             | 7,200 10 5   |   |   |   |   |   |   |
| 676    | 5750             | 4 35             | 30,800 30  |   |   |   |   |   |   |
| 706    | 6000             | 4 74             | 36,800 39  | 18,540 19   |   |   |   |   |   |
| 735    | 6250             | 5 14             | 41,200 47  | 35,600 41   |   |   |   |   |   |
| 765    | 6500             | 5 56             | 45,400 56  | 41,000 50   | 6,420 16 5  |   |   |   |   |
| 794    | 6750             | 5 99             | 48,800 66  | 45,200 60   | 32,000 42   |   |   |   |   |
| 824    | 7000             | 6 45             | 52,400 76  | 49,200 70   | 40,400 58   | 3,760 17 5  |   |   |   |
| 882    | 7500             | 7 40             | 58,800 98  | 56,200 94   | 49,600 82   | 39,400 66   | 2,940 21  |   |   |
| 941    | 8000             | 8 41             | 64,600 125   | 62,600 120  | 57,400 110  | 50,800 94   | 38,800 72   | 2,640 23  |   |
| 1000   | 8500             | 9 50             | 70,000 150   | 68,400 150  | 64,400 135  | 58,800 130  | 52,600 110  | 35,200 84   | 3,160 31  |
| 1059   | 9000             | 10 67            | 75,200 180   | 74,000 180  | 70,600 170  | 66,400 160  | 61,000 150  | 54,000 130  | 27,800 70   |
| 1118   | 9500             | 11 89            | 80,600 220   | 79,200 210  | 76,400 210  | 72,800 195  | 68,400 185  | 63,200 170  | 50,400 150  |
| 1177   | 10000            | 13 17            | 85,800 250   | 84,600 250  | 82,000 240  | 79,000 230  | 75,200 230  | 71,000 210  | 65,800 190  |
| 617    | 5750             | 4 35             |  |   |   |   |   |   |   |
| 706    | 6000             | 4 74             |  |   |   |   |   |   |   |
| 735    | 6250             | 5 14             |  |   |   |   |   |   |   |
| 765    | 6500             | 5 56             |  |   |   |   |   |   |   |
| 794    | 6750             | 5 99             |  |   |   |   |   |   |   |
| 824    | 7000             | 6 45             |  |   |   |   |   |   |   |
| 882    | 7500             | 7 40             |  |   |   |   |   |   |   |
| 941    | 8000             | 8 41             |  |   |   |   |   |   |   |
| 1000   | 8500             | 9 50             |  |   |   |   |   |   |   |
| 1059   | 9000             | 10 67            |  |   |   |   |   |   |   |
| 1118   | 9500             | 11 89            |  |   |   |   |   |   |   |
| 1177   | 10000            | 13 17            |  |   |   |   |   |   |   |

Double Inlet

## No. 8 Multivane Fan—Design 3

Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M. H. P. Static Pressure 1" Water .0722 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1½" Water .145 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 2" Water .217 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 2½" Water .289 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 3" Water .361 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 3½" Water .434 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 4" Water .506 ozs. per sq. inch |
|--------|------------------|------------------|--|--|---|--|---|--|---|
| 103    | 1075             | 0 152            | 2,660 0 11   |  |   |  |   |  |   |
| 118    | 1200             | 0 189            | 11,700 0 49  |  |   |  |   |  |   |
| 137    | 1400             | 0 258            | 15,700 0 92  | 416 0 18   |   |  |   |  |   |
| 157    | 1600             | 0 337            | 19,000 1 15  | 11,000 1 05  |   |  |   |  |   |
| 177    | 1800             | 0 426            | 22,000 2 1   | 18,700 1 8   | 3,400 0 53  |  |   |  |   |
| 196    | 2000             | 0 526            | 25,000 2 9   | 22,600 2 7   | 18,300 2 1  | 950 0 53   |   |  |   |
| 216    | 2200             | 0 636            | 27,800 3 9   | 25,800 3 7   | 22,800 3 3  | 17,800 2 5   | 326 0 64  |  |   |
| 235    | 2400             | 0 759            | 30,600 5 1   | 29,000 4 9   | 26,800 4 6  | 23,000 4 0   | 17,400 3 0  | 250 0 84   |   |
| 255    | 2 00             | 0 889            | 33,200 6 5   | 32,000 6 3   | 30,200 6 1  | 27,600 5 5   | 24,000 4 7  | 17,200 3 5   |   |
| 275    | 2800             | 1 03             | 35,000 8 0   | 33,400 7 8   | 31,400 7 3  | 28,800 6 6   | 24,600 5 6  | 17,400 4 4   |   |
| 294    | 3000             | 1 19             | 37,800 9 9   | 36,400 9 7   | 34,800 9 2  | 32,000 8 7   | 30,000 7 9  | 26,600 7 0   |   |
| 314    | 3200             | 1 35             | 40,600 12 0  | 39,400 12 0  | 38,000 11 5   | 36,200 11 0  | 34,200 10 5   | 31,400 9 6   |   |
| 333    | 3400             | 1 52             | 43,400 14 5  | 42,400 14 5  | 41,000 14   | 39,600 14 0  | 38,000 13   | 35,800 12 0  |   |
| 353    | 3600             | 1 71             | 46,000 17 5  | 45,000 17  | 44,000 17   | 42,800 16 5  | 41,200 16   | 39,600 15 0  |   |
| 373    | 3800             | 1 90             | 48,400 21  | 48,000 20  | 47,000 20   | 45,800 19 5  | 44,600 19   | 43,000 18 5  |   |
| 392    | 4000             | 2 11             |  | 50,800 24  | 50,000 23   | 48,800 23  | 47,800 23   | 46,400 22  |   |
| 412    | 4200             | 2 32             |  |  | 52,600 27   | 51,800 27  | 51,000 27   | 49,800 26  |   |
| 431    | 4400             | 2 55             |  |  | 56,200 32   | 55,600 32  | 54,800 31   | 53,800 31  | 52,800 30   |
| 451    | 4600             | 2 78             |  |  | 58,400 36   | 57,600 36  | 56,800 35   | 55,800 35  | 55,800 35   |
| 471    | 4800             | 3 03             |  |  | 61,200 41   | 60,400 41  | 59,600 40   | 59,000 40  |   |
| 490    | 5000             | 3 29             |  |  | 64,000 47   | 63,200 46  | 62,400 46   | 61,800 45  |   |
| 515    | 5250             | 3 63             |  |  | 67,400 54   | 66,800 54  | 66,000 54   | 65,400 52  |   |
| 540    | 5500             | 3 98             |  |  |   | 70,200 62  | 69,400 62   | 68,800 60  |   |
| 564    | 5750             | 4 35             |  |  |   | 73,600 72  | 73,200 70   | 72,600 70  |   |
| 589    | 6000             | 4 74             |  |  |   | 77,000 82  | 76,600 80   | 76,000 80  |   |
| 613    | 6250             | 5 14             |  |  |   |  | 80,000 92   | 79,600 90  |   |
| 637    | 6500             | 5 56             |  |  |   |  | 83,400 105  | 83,000 105   |   |
| 662    | 6750             | 5 99             |  |  |   |  |   | 86,400 115   |   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 ozs. per sq. inch                      | Static Pressure 1½" Water .723 ozs. per sq. inch                     | Static Pressure 2" Water .878 ozs. per sq. inch                     | Static Pressure 2½" Water 1.01 ozs. per sq. inch                     | Static Pressure 3" Water 1.16 ozs. per sq. inch                     | Static Pressure 3½" Water 1.45 ozs. per sq. inch                     | Static Pressure 4" Water 1.73 ozs. per sq. inch                     |
| 294    | 3000             | 1 19             | 15,600 4 2   |  |   |  |   |  |   |
| 314    | 3200             | 1 35             | 28,000 8 4   | 2,800 2 6  |   |  |   |  |   |
| 333    | 3400             | 1 52             | 33,200 11  | 24,800 8 4   |   |  |   |  |   |
| 353    | 3600             | 1 71             | 37,400 14  | 32,000 12 0  | 6,800 4 2   |  |   |  |   |
| 373    | 3800             | 1 90             | 41,400 18  | 37,200 16 0  | 30,400 13   | 3,660 4 4  |   |  |   |
| 392    | 4000             | 2 11             | 45,000 22  | 41,400 19 5  | 36,600 17   | 28,000 13 0  |   |  |   |
| 412    | 4200             | 2 32             | 48,400 25  | 45,400 24  | 41,600 22   | 36,000 18 5  | 10,600 7 2  |  |   |
| 431    | 4400             | 2 55             | 51,800 30  | 49,000 28  | 45,800 26   | 41,800 24  | 35,200 19   |  |   |
| 451    | 4600             | 2 78             | 54,800 34  | 52,600 33  | 49,800 31   | 46,200 29  | 42,400 26   | 6,620 8 4  |   |
| 471    | 4800             | 3 03             | 57,800 39  | 55,800 38  | 53,400 37   | 50,400 34  | 46,800 32   | 31,600 23  |   |
| 490    | 5000             | 3 29             | 61,000 45  | 59,200 44  | 57,000 43   | 54,200 40  | 51,200 38   | 42,600 31  | 5,800 10 5  |
| 515    | 5250             | 3 63             | 64,600 52  | 63,000 52  | 61,000 50   | 59,000 48  | 56,200 46   | 49,600 40  | 37,400 30   |
| 540    | 5500             | 3 98             | 68,400 60  | 66,800 60  | 65,200 58   | 63,000 56  | 60,800 54   | 55,200 49  | 47,400 42   |
| 564    | 5750             | 4 35             | 71,600 70  | 70,400 68  | 69,000 68   | 67,200 66  | 65,200 64   | 60,600 60  | 51,200 52   |
| 589    | 6000             | 4 74             | 75,600 80  | 74,200 78  | 73,000 78   | 71,200 76  | 69,400 74   | 65,200 70  | 60,000 64   |
| 613    | 6250             | 5 14             | 79,900 90  | 78,000 90  | 76,000 88   | 74,200 86  | 73,000 86   | 69,800 82  | 65,200 76   |
| 637    | 6500             | 5 56             | 82,400 100   | 81,000 100   | 80,200 100  | 79,000 98  | 77,400 98   | 74,200 94  | 70,400 88   |
| 662    | 6750             | 5 99             | 86,000 115   | 85,000 110   | 83,800 110  | 82,800 110   | 81,400 110  | 78,400 110   | 74,800 100  |
| 686    | 7000             | 6 15             | 89,400 130   | 88,200 130   | 87,400 130  | 86,400 125   | 85,200 125  | 82,400 120   | 79,200 115  |
| 735    | 7500             | 7 10             | 96,000 160   | 95,400 155   | 94,400 155  | 93,400 150   | 92,400 150  | 90,200 150   | 87,800 150  |
| 785    | 8000             | 8 41             |  | 102,000 190  | 101,000 190   | 101,000 190  | 99,800 190  | 97,800 185   | 96,000 185  |
| 834    | 8500             | 9 50             |  | 108,000 230  | 108,000 230   | 108,000 230  | 107,000 230   | 105,000 220  | 103,000 220   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 3½" Water 2.02 ozs. per sq. inch                     | Static Pressure 4" Water 2.31 ozs. per sq. inch                      | Static Pressure 5" Water 2.89 ozs. per sq. inch                     | Static Pressure 6" Water 3.47 ozs. per sq. inch                      | Static Pressure 7" Water 4.05 ozs. per sq. inch                     | Static Pressure 8" Water 4.63 ozs. per sq. inch                      | Static Pressure 9" Water 5.2 ozs. per sq. inch                      |
| 540    | 5500             | 3 98             | 10,400 15  |  |   |  |   |  |   |
| 564    | 5750             | 4 35             | 14,400 43  |  |   |  |   |  |   |
| 589    | 6000             | 4 74             | 53,000 56  | 26,800 27  |   |  |   |  |   |
| 613    | 6250             | 5 14             | 59,400 68  | 51,200 58  |   |  |   |  |   |
| 637    | 6500             | 5 56             | 65,400 80  | 59,000 74  | 9,260 24  |  |   |  |   |
| 662    | 6750             | 5 99             | 70,400 94  | 65,200 86  | 16,000 62   |  |   |  |   |
| 686    | 7000             | 6 15             | 75,400 110   | 70,800 100   | 58,000 84   | 5,400 25   |   |  |   |
| 735    | 7500             | 7 40             | 84,600 140   | 81,000 135   | 71,600 120  | 56,800 94  | 4,240 30  |  |   |
| 785    | 8000             | 8 11             | 93,000 175   | 90,000 170   | 82,800 155  | 73,200 135   | 55,800 105  | 3,800 34   |   |
| 834    | 8500             | 9 50             | 101,000 220  | 98,400 210   | 92,800 200  | 84,800 180   | 75,800 160  | 50,800 120   | 4,540 41  |
| 882    | 9000             | 10 67            | 108,000 260  | 107,000 260  | 102,000 250   | 95,600 230   | 88,000 210  | 77,800 184   | 40,000 100  |
| 931    | 9500             | 11 89            | 116,000 310  | 114,000 310  | 110,000 300   | 105,000 280  | 98,800 260  | 91,000 240   | 81,400 220  |
| 980    | 10000            | 13 17            | 123,000 360  | 122,000 360  | 118,000 350   | 114,000 340  | 108,000 320   | 102,000 300  | 94,800 280  |

Double Inlet

## No. 9 Multivane Fan—Design 3

Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M. H. P. Static Pressure 1/2" Water .0722 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 3/4" Water .145 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1" Water .217 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1 1/4" Water .289 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1 1/2" Water .361 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1 3/4" Water .434 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 2" Water .506 ozs. per sq. inch |
|--------|------------------|------------------|--|---|---|---|---|---|---|
| 88     | 1075             | 0 152            | 3,600 0.145  |   |   |   |   |   |   |
| 101    | 1200             | 0 189            | 15,900 0.67  |   |   |   |   |   |   |
| 118    | 1400             | 0 258            | 21,400 1.25  | 566 0 26  |   |   |   |   |   |
| 134    | 1600             | 0 337            | 25,800 1.95  | 19,100 1 40   |   |   |   |   |   |
| 151    | 1800             | 0 426            | 30,000 2 9   | 25,400 2 4  | 1,620 0 71  |   |   |   |   |
| 168    | 2000             | 0 526            | 34,000 4 0   | 30,600 3 7  | 25,000 2 9  | 1,290 0 72  |   |   |   |
| 185    | 2200             | 0 636            | 37,800 5 3   | 35,200 5 1  | 31,200 4 4  | 24,400 3 4  | 444 0 87  |   |   |
| 202    | 2400             | 0 759            | 41,600 7 0   | 39,400 6 7  | 36,400 6 2  | 31,800 5 4  | 23,700 4 0  | 340 1 15  |   |
| 219    | 2600             | 0 889            | 45,200 8 9   | 43,100 8 6  | 41,000 8 5  | 37,600 7 5  | 32,800 6 5  | 23,400 4 8  |   |
| 235    | 2800             | 1 03             |  | 47,400 11 0   | 45,400 10 5   | 42,800 10 0   | 39,000 9  | 33,400 7 6  | 23,600 6 0  |
| 252    | 3000             | 1 19             |  | 51,400 13 5   | 49,600 13 0   | 47,200 12 6   | 44,400 12   | 40,800 11   | 36,000 9 5  |
| 269    | 3200             | 1 35             |  | 55,200 16   | 53,600 16 0   | 51,800 16   | 49,700 15   | 46,100 11   | 42,800 13   |
| 286    | 3400             | 1 52             |  | 59,000 20   | 57,600 19 5   | 55,800 19   | 53,800 19   | 51,600 18   | 48,600 17   |
| 303    | 3600             | 1 71             |  | 62,600 24   | 61,200 23   | 60,000 23   | 58,400 23   | 56,200 22   | 54,600 21   |
| 319    | 3800             | 1 90             |  | 66,400 28   | 65,200 28   | 63,800 27   | 62,400 26   | 60,600 25   | 58,600 25   |
| 336    | 4000             | 2 11             |  |   | 69,000 32   | 67,800 32   | 66,400 32   | 65,200 31   | 63,000 30   |
| 353    | 4200             | 2 32             |  |   | 73,000 38   | 71,400 37   | 70,400 37   | 69,200 36   | 67,600 36   |
| 370    | 4400             | 2 55             |  |   | 76,600 44   | 75,600 43   | 74,000 42   | 73,200 42   | 71,800 41   |
| 387    | 4600             | 2 78             |  |   | 80,200 50   | 79,400 49   | 78,400 48   | 77,200 48   | 72,000 47   |
| 404    | 4800             | 3 03             |  |   |   | 83,200 56   | 82,200 56   | 81,200 54   | 80,200 54   |
| 420    | 5000             | 3 29             |  |   |   | 87,000 64   | 86,000 62   | 85,000 62   | 84,000 62   |
| 441    | 5250             | 3 63             |  |   |   | 91,800 74   | 91,000 74   | 89,800 72   | 88,800 72   |
| 462    | 5500             | 3 98             |  |   |   |   | 95,400 84   | 94,400 84   | 93,600 82   |
| 483    | 5750             | 4 35             |  |   |   |   | 100,000 98  | 100,000 96  | 98,800 96   |
| 505    | 6000             | 4 74             |  |   |   |   | 105,000 110   | 104,000 110   | 103,000 110   |
| 525    | 6250             | 5 14             |  |   |   |   |   | 109,000 125   | 108,000 125   |
| 546    | 6500             | 5 56             |  |   |   |   |   | 113,000 140   | 113,000 140   |
| 567    | 6750             | 5 99             |  |   |   |   |   |   | 118,000 155   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 ozs. per sq. inch                        | Static Pressure 1 1/4" Water .723 ozs. per sq. inch                   | Static Pressure 1 1/2" Water .878 ozs. per sq. inch                 | Static Pressure 1 3/4" Water 1.01 ozs. per sq. inch                     | Static Pressure 2" Water 1.16 ozs. per sq. inch                         | Static Pressure 2 1/2" Water 1.45 ozs. per sq. inch                     | Static Pressure 3" Water 1.73 ozs. per sq. inch                     |
| 252    | 3000             | 1 19             | 21,200 5.7   |   |   |   |   |   |   |
| 269    | 3200             | 1 35             | 38,200 10 5  | 3,820 3 5   |   |   |   |   |   |
| 286    | 3400             | 1 52             | 45,200 15 5  | 33,600 11 5   | 9,220 5.7   |   |   |   |   |
| 303    | 3600             | 1 71             | 50,800 19 5  | 43,600 17 5   |   |   |   |   |   |
| 319    | 3800             | 1 90             | 56,400 24  | 50,400 21   | 41,400 17.5   | 4,980 6   |   |   |   |
| 336    | 4000             | 2 11             | 61,200 29  | 56,400 27   | 49,800 23   | 38,000 18   |   |   |   |
| 353    | 4200             | 2 32             | 66,000 35  | 61,800 32   | 56,600 29   | 49,000 25   | 14,400 9 8  |   |   |
| 370    | 4400             | 2 55             | 70,400 41  | 66,600 38   | 62,200 36   | 56,800 32   | 47,800 26   |   |   |
| 387    | 4600             | 2 78             | 74,400 47  | 71,400 45   | 67,600 42   | 62,800 39   | 57,600 36   | 9,000 11 5  |   |
| 404    | 4800             | 3 03             | 78,800 54  | 76,000 52   | 72,600 50   | 68,400 47   | 63,600 43   | 47,000 32   |   |
| 420    | 5000             | 3 29             | 83,000 62  | 80,400 60   | 77,600 58   | 73,800 56   | 69,600 52   | 58,000 42   | 7,880 14  |
| 441    | 5250             | 3 63             | 87,800 72  | 85,800 72   | 83,000 68   | 80,200 66   | 76,200 62   | 67,400 54   | 51,000 41   |
| 462    | 5500             | 3 98             | 93,000 82  | 90,800 82   | 88,600 80   | 85,800 78   | 82,800 74   | 75,200 66   | 61,400 56   |
| 483    | 5750             | 4 35             | 97,600 94  | 96,000 94   | 94,000 92   | 93,400 90   | 88,600 88   | 82,400 80   | 73,800 72   |
| 505    | 6000             | 4 74             | 103,000 110  | 101,000 110   | 99,000 105  | 97,000 105  | 94,600 100  | 88,800 94   | 81,600 86   |
| 525    | 6250             | 5 14             | 107,000 175  | 106,000 120   | 104,000 120   | 102,000 120   | 100,000 115   | 95,000 110  | 88,600 105  |
| 546    | 6500             | 5 56             | 112,000 140  | 110,000 135   | 109,000 135   | 107,000 135   | 105,000 130   | 101,000 130   | 95,800 120  |
| 567    | 6750             | 5 99             | 117,000 155  | 116,000 155   | 114,000 150   | 113,000 150   | 111,000 150   | 107,000 145   | 102,000 140   |
| 589    | 7000             | 6 45             | 122,000 170  | 120,000 170   | 119,000 170   | 118,000 170   | 116,000 170   | 112,000 165   | 108,000 155   |
| 631    | 7500             | 7 40             | 131,000 220  | 130,000 210   | 128,000 210   | 127,000 210   | 126,000 210   | 123,000 200   | 119,000 200   |
| 672    | 8000             | 8 11             |  | 139,000 260   | 138,000 260   | 137,000 260   | 136,000 250   | 133,000 250   | 130,000 250   |
| 715    | 8500             | 9 50             |  | 149,000 320   | 147,000 310   | 146,000 310   | 145,000 310   | 143,000 300   | 141,000 300   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 3 1/2" Water 2.02 ozs. per sq. inch                    | Static Pressure 4" Water 2.31 ozs. per sq. inch                       | Static Pressure 5" Water 2.89 ozs. per sq. inch                     | Static Pressure 6" Water 3.47 ozs. per sq. inch                         | Static Pressure 7" Water 4.05 ozs. per sq. inch                         | Static Pressure 8" Water 4.63 ozs. per sq. inch                         | Static Pressure 9" Water 5.2 ozs. per sq. inch                      |
| 462    | 5500             | 3 98             | 14,100 20  |   |   |   |   |   |   |
| 483    | 5750             | 4 35             | 60,400 58  |   |   |   |   |   |   |
| 505    | 6000             | 4 74             | 72,000 76  | 36,400 37   |   |   |   |   |   |
| 525    | 6250             | 5 14             | 80,800 92  | 69,600 80   |   |   |   |   |   |
| 546    | 6500             | 5 56             | 88,800 110   | 80,400 100  | 12,600 32   |   |   |   |   |
| 567    | 6750             | 5 99             | 95,600 130   | 88,600 120  | 62,600 84   |   |   |   |   |
| 589    | 7000             | 6 45             | 103,000 150  | 96,200 140  | 79,000 110  | 7,340 34  |   |   |   |
| 631    | 7500             | 7 40             | 115,000 190  | 110,000 185   | 97,000 160  | 77,200 130  | 5,760 41  |   |   |
| 672    | 8000             | 8 41             | 127,000 240  | 123,000 230   | 113,000 210   | 99,600 185  | 76,000 145  |   |   |
| 715    | 8500             | 9 50             | 137,000 300  | 134,000 290   | 126,000 270   | 115,000 250   | 103,000 220   | 69,000 165  | 6,180 60  |
| 756    | 9000             | 10 67            | 147,000 350  | 145,000 350   | 138,000 330   | 130,000 320   | 120,000 290   | 106,000 250   | 51,000 135  |
| 799    | 9500             | 11 89            | 158,000 420  | 155,000 420   | 150,000 400   | 143,000 380   | 134,000 360   | 124,000 330   | 111,000 290   |
| 840    | 10000            | 13 17            | 168,000 490  | 166,000 490   | 161,000 480   | 155,000 460   | 148,000 440   | 139,000 410   | 129,000 380   |

Double Inlet

## No. 10 Multivane Fan—Design 3

Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                     | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. |
|--------|------------------|------------------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|
|        |                  |                  | Static Pressure 1/2" Water .0722 ozs. per sq. inch  |       | Static Pressure 1/2" Water .145 ozs. per sq. inch   |       | Static Pressure 3/4" Water .217 ozs. per sq. inch   |       | Static Pressure 1" Water .289 ozs. per sq. inch     |       | Static Pressure 5/8" Water .361 ozs. per sq. inch |       | Static Pressure 3/4" Water .434 ozs. per sq. inch   |       | Static Pressure 7/8" Water .506 ozs. per sq. inch   |       |
| 77     | 1075             | 0 152            | 4,720   | 0 02  |   |       |   |       |   |       |   |       |   |       |   |       |
| 88     | 1200             | 0 189            | 20,800  | 0 88  |   |       |   |       |   |       |   |       |   |       |   |       |
| 103    | 1400             | 0 258            | 27,800  | 1 65  | 740   | 0 33  |   |       |   |       |   |       |   |       |   |       |
| 118    | 1600             | 0 337            | 33,800  | 2 60  | 25,000  | 1 85  |   |       |   |       |   |       |   |       |   |       |
| 132    | 1800             | 0 426            | 39,200  | 3 7   | 33,200  | 3 2   | 6,040   | 0 93  |   |       |   |       |   |       |   |       |
| 147    | 2000             | 0 526            | 44,400  | 5 2   | 40,000  | 4 8   | 32,600  | 3 8   | 1,600   | 0 94  |   |       |   |       |   |       |
| 162    | 2200             | 0 636            | 49,400  | 7 0   | 46,000  | 6 6   | 40,600  | 5 8   | 31,800  | 4 5   | 580   | 1 15  |   |       |   |       |
| 176    | 2400             | 0 759            | 54,400  | 9 2   | 51,400  | 8 8   | 47,000  | 8 1   | 41,600  | 7 0   | 31,000  | 5 3   | 444   | 1 5   |   |       |
| 191    | 2600             | 0 889            | 59,200  | 11 5  | 56,800  | 11 0  | 53,600  | 11 0  | 49,200  | 9 8   | 42,800  | 8 4   | 30,600  | 6 2   |   |       |
| 206    | 2800             | 1 03             |   |       | 62,000  | 14 0  | 59,200  | 14 0  | 55,800  | 13 0  | 51,000  | 12 0  | 43,600  | 10 0  | 30,800  | 7 8   |
| 221    | 3000             | 1 19             |   |       | 67,200  | 17 5  | 64,800  | 17 5  | 61,800  | 16 5  | 58,000  | 15 5  | 53,200  | 14 0  | 47,200  | 12 5  |
| 235    | 3200             | 1 35             |   |       | 72,000  | 22    | 70,000  | 21    | 67,600  | 21    | 64,400  | 19 5  | 60,800  | 18 5  | 56,000  | 17 0  |
| 250    | 3400             | 1 52             |   |       | 77,000  | 26    | 75,200  | 25    | 73,000  | 25    | 70,400  | 25    | 67,600  | 23    | 63,600  | 22    |
| 265    | 3600             | 1 71             |   |       | 81,800  | 31    | 80,000  | 30    | 78,400  | 30    | 76,400  | 29    | 73,400  | 28    | 70,400  | 27    |
| 280    | 3800             | 1 90             |   |       | 86,800  | 37    | 85,200  | 36    | 83,400  | 35    | 81,600  | 35    | 79,200  | 31    | 76,600  | 33    |
| 294    | 4000             | 2 11             |   |       |   |       | 90,200  | 42    | 88,600  | 42    | 86,800  | 41    | 85,200  | 40    | 82,400  | 39    |
| 309    | 4200             | 2 32             |   |       |   |       | 95,200  | 49    | 93,400  | 48    | 92,000  | 48    | 90,600  | 47    | 88,400  | 46    |
| 324    | 4400             | 2 55             |   |       |   |       | 100,000   | 58    | 99,000  | 56    | 97,400  | 56    | 95,600  | 54    | 94,000  | 54    |
| 338    | 4600             | 2 78             |   |       |   |       | 105,000   | 66    | 104,000   | 64    | 102,000   | 64    | 101,000   | 62    | 99,000  | 62    |
| 353    | 4800             | 3 03             |   |       |   |       |   |       | 109,000   | 74    | 107,000   | 72    | 106,000   | 72    | 105,000   | 72    |
| 368    | 5000             | 3 29             |   |       |   |       |   |       | 114,000   | 84    | 112,000   | 82    | 111,000   | 82    | 110,000   | 80    |
| 386    | 5250             | 3 63             |   |       |   |       |   |       | 120,000   | 96    | 119,000   | 96    | 117,000   | 96    | 116,000   | 94    |
| 405    | 5500             | 3 98             |   |       |   |       |   |       |   |       | 125,000   | 112   | 123,000   | 110   | 122,000   | 110   |
| 423    | 5750             | 4 35             |   |       |   |       |   |       |   |       | 131,000   | 128   | 130,000   | 125   | 129,000   | 125   |
| 441    | 6000             | 4 74             |   |       |   |       |   |       |   |       | 137,000   | 144   |   |       | 136,000   | 145   |
| 460    | 6250             | 5 14             |   |       |   |       |   |       |   |       |   |       | 142,000   | 165   | 142,000   | 160   |
| 478    | 6500             | 5 56             |   |       |   |       |   |       |   |       |   |       | 148,000   | 185   | 148,000   | 185   |
| 496    | 6750             | 5 99             |   |       |   |       |   |       |   |       |   |       |   |       | 154,000   | 210   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 ozs. per sq. inch     |       | Static Pressure 1 1/2" Water .723 ozs. per sq. inch |       | Static Pressure 1 1/2" Water .878 ozs. per sq. inch |       | Static Pressure 1 3/4" Water 1.01 ozs. per sq. inch |       | Static Pressure 2" Water 1.16 ozs. per sq. inch   |       | Static Pressure 2 1/4" Water 1.45 ozs. per sq. inch |       | Static Pressure 2 1/2" Water 1.73 ozs. per sq. inch |       |
| 221    | 3000             | 1 19             | 27,800  | 7 5   |   |       |   |       |   |       |   |       |   |       |   |       |
| 235    | 3200             | 1 35             | 50,000  | 15 0  | 4,980   | 4 6   |   |       |   |       |   |       |   |       |   |       |
| 250    | 3400             | 1 52             | 59,000  | 20    | 44,000  | 15    |   |       |   |       |   |       |   |       |   |       |
| 265    | 3600             | 1 71             | 66,000  | 25    | 57,000  | 22    | 12,100  | 7 5   |   |       |   |       |   |       |   |       |
| 280    | 3800             | 1 90             | 73,800  | 32    | 66,000  | 26    | 54,000  | 23    | 6,520   | 7 8   |   |       |   |       |   |       |
| 294    | 4000             | 2 11             | 80,000  | 38    | 73,800  | 35    | 65,200  | 31    | 49,600  | 23    |   |       |   |       |   |       |
| 309    | 4200             | 2 32             | 86,000  | 45    | 80,800  | 42    | 74,000  | 38    | 64,200  | 33    | 18,800  | 13    |   |       |   |       |
| 324    | 4400             | 2 55             | 92,000  | 54    | 87,000  | 50    | 81,200  | 47    | 74,200  | 42    | 62,600  | 31    |   |       |   |       |
| 338    | 4600             | 2 78             | 97,400  | 62    | 93,400  | 58    | 88,400  | 56    | 82,000  | 52    | 75,200  | 46    | 11,800  | 15    |   |       |
| 353    | 4800             | 3 03             | 103,000   | 70    | 99,000  | 68    | 95,000  | 66    | 89,400  | 62    | 83,000  | 56    | 61,600  | 42    |   |       |
| 368    | 5000             | 3 29             | 108,000   | 80    | 105,000   | 78    | 101,000   | 78    | 96,400  | 72    | 91,000  | 68    | 75,800  | 56    | 10,300  | 18 5  |
| 386    | 5250             | 3 63             | 115,000   | 92    | 112,000   | 82    | 108,000   | 90    | 105,000   | 86    | 99,800  | 82    | 88,000  | 72    | 66,600  | 54    |
| 405    | 5500             | 3 98             | 121,000   | 110   | 119,000   | 110   | 116,000   | 104   | 112,000   | 100   | 108,000   | 98    | 98,200  | 88    | 84,200  | 74    |
| 423    | 5750             | 4 35             | 127,000   | 125   | 125,000   | 125   | 123,000   | 120   | 119,000   | 120   | 116,000   | 115   | 108,000   | 105   | 96,200  | 94    |
| 441    | 6000             | 4 74             | 134,000   | 140   | 132,000   | 140   | 130,000   | 140   | 127,000   | 135   | 123,000   | 130   | 116,000   | 125   | 107,000   | 110   |
| 460    | 6250             | 5 14             | 140,000   | 160   | 139,000   | 160   | 136,000   | 155   | 133,000   | 155   | 131,000   | 150   | 124,000   | 145   | 116,000   | 135   |
| 478    | 6500             | 5 56             | 146,000   | 180   | 144,000   | 180   | 143,000   | 175   | 140,000   | 175   | 138,000   | 170   | 132,000   | 170   | 125,000   | 155   |
| 496    | 6750             | 5 99             | 153,000   | 200   | 151,000   | 200   | 149,000   | 200   | 147,000   | 195   | 145,000   | 195   | 139,000   | 190   | 133,000   | 180   |
| 515    | 7000             | 6 45             | 159,000   | 230   | 157,000   | 230   | 155,000   | 220   | 154,000   | 220   | 151,000   | 220   | 146,000   | 210   | 141,000   | 210   |
| 532    | 7500             | 7 40             | 171,000   | 280   | 170,000   | 280   | 168,000   | 280   | 166,000   | 270   | 164,000   | 270   | 160,000   | 270   | 155,000   | 260   |
| 558    | 8000             | 8 41             |   |       | 182,000   | 340   | 181,000   | 340   | 179,000   | 340   | 177,000   | 330   | 174,000   | 330   | 170,000   | 320   |
| 625    | 8500             | 9 50             |   |       | 194,000   | 410   | 193,000   | 410   | 191,000   | 410   | 190,000   | 400   | 187,000   | 400   | 184,000   | 390   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 3 1/2" Water 2.62 ozs. per sq. inch |       | Static Pressure 4" Water 2.31 ozs. per sq. inch     |       | Static Pressure 5" Water 2.89 ozs. per sq. inch     |       | Static Pressure 6" Water 3.47 ozs. per sq. inch     |       | Static Pressure 7" Water 4.05 ozs. per sq. inch   |       | Static Pressure 8" Water 4.63 ozs. per sq. inch     |       | Static Pressure 9" Water 5.2 ozs. per sq. inch      |       |
| 405    | 5500             | 3 98             | 18,400  | 27    |   |       |   |       |   |       |   |       |   |       |   |       |
| 423    | 5750             | 4 35             | 78,800  | 76    |   |       |   |       |   |       |   |       |   |       |   |       |
| 441    | 6000             | 4 74             | 94,000  | 98    | 47,600  | 48    |   |       |   |       |   |       |   |       |   |       |
| 460    | 6250             | 5 14             | 106,000   | 120   | 91,000  | 105   |   |       |   |       |   |       |   |       |   |       |
| 478    | 6500             | 5 56             | 116,000   | 145   | 105,000   | 130   | 16,500  | 42    |   |       |   |       |   |       |   |       |
| 496    | 6750             | 5 99             | 125,000   | 170   | 116,000   | 155   | 81,800  | 110   |   |       |   |       |   |       |   |       |
| 515    | 7000             | 6 45             | 131,000   | 195   | 126,000   | 180   | 103,000   | 150   | 9,600   | 15    |   |       |   |       |   |       |
| 532    | 7500             | 7 40             | 150,000   | 250   | 144,000   | 240   | 127,000   | 210   | 101,000   | 170   | 7,520   | 54    |   |       |   |       |
| 558    | 8000             | 8 41             | 165,000   | 320   | 160,000   | 310   | 147,000   | 280   | 130,000   | 240   | 99,200  | 190   | 6,760   | 60    |   |       |
| 625    | 8500             | 9 50             | 179,000   | 390   | 175,000   | 380   | 165,000   | 350   | 151,000   | 320   | 135,000   | 280   | 90,200  | 220   | 8,080   | 78    |
| 662    | 9000             | 10 67            | 193,000   | 460   | 190,000   | 460   | 181,000   | 440   | 170,000   | 410   | 156,000   | 370   | 148,000   | 330   | 71,200  | 175   |
| 690    | 9500             | 11 89            | 206,000   | 550   | 204,000   | 550   | 196,000   | 530   | 187,000   | 500   | 175,000   | 470   | 162,000   | 430   | 145,000   | 380   |
| 735    | 10000            | 13 17            | 220,000   | 610   | 216,000   | 610   | 210,000   | 630   | 202,000   | 600   | 193,000   | 580   | 182,000   | 540   | 169,000   | 490   |

Double Inlet

## No. 11 Multivane Fan—Design 3

Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                     | H. P. | Volume C.F.M.                                     | H. P. | Volume C.F.M.                                     | H. P. | Volume C.F.M.                                     | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                     | H. P. |
|--------|------------------|------------------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|
|        |                  |                  | Static Pressure 1/4" Water .0722 ozs. per sq. inch  |       | Static Pressure 1/4" Water .145 ozs. per sq. inch |       | Static Pressure 3/8" Water .217 ozs. per sq. inch |       | Static Pressure 1/2" Water .289 ozs. per sq. inch |       | Static Pressure 5/8" Water .361 ozs. per sq. inch |       | Static Pressure 3/4" Water .434 ozs. per sq. inch   |       | Static Pressure 7/8" Water .506 ozs. per sq. inch |       |
| 69     | 1075             | 0 152            | 5,960   | 0 25  |   |       |   |       |   |       |   |       |   |       |   |       |
| 78     | 1200             | 0 189            | 26,200  | 1 1   |   |       |   |       |   |       |   |       |   |       |   |       |
| 92     | 1400             | 0 258            | 35,200  | 2 1   |   |       |   |       |   |       |   |       |   |       |   |       |
| 105    | 1600             | 0 337            | 42,800  | 3 2   |   |       |   |       |   |       |   |       |   |       |   |       |
|        |                  |                  |   |       | 934   | 0 45  |   |       |   |       |   |       |   |       |   |       |
|        |                  |                  |   |       | 31,600  | 2 4   |   |       |   |       |   |       |   |       |   |       |
| 118    | 1800             | 0 426            | 49,400  | 4 7   | 42,000  | 4 0   | 7,620   | 1 2   |   |       |   |       |   |       |   |       |
| 131    | 2000             | 0 526            | 56,200  | 6 5   | 50,600  | 6 0   | 41,200  | 4 8   | 2,140   | 1 2   |   |       |   |       |   |       |
| 144    | 2200             | 0 636            | 62,400  | 8 8   | 58,200  | 8 4   | 51,400  | 7 4   | 40,200  | 5 7   |   |       | 734   | 1 45  |   |       |
| 157    | 2400             | 0 759            | 68,800  | 11 5  | 65,200  | 11    | 60,200  | 10 5  | 52,600  | 8 9   | 3,920   | 6 60  |   |       | 560   | 1 9   |
| 170    | 2600             | 0 880            | 74,800  | 15    | 71,800  | 14    | 67,800  | 13 5  | 62,000  | 12 5  | 54,000  | 11 5  | 38,800  | 7 9   |   |       |
| 183    | 2800             | 1 03             |   |       | 78,400  | 18    | 75,000  | 17 5  | 70,600  | 16 5  | 64,000  | 15 0  | 55,200  | 12 5  | 39,000  | 9 9   |
| 196    | 3000             | 1 19             |   |       | 85,000  | 22    | 82,000  | 22    | 78,200  | 21    | 73,400  | 19 5  | 67,400  | 18    | 59,600  | 16    |
| 209    | 3200             | 1 35             |   |       | 91,000  | 27    | 88,600  | 27    | 85,200  | 26    | 81,400  | 25    | 76,800  | 23    | 70,800  | 22    |
| 222    | 3400             | 1 52             |   |       | 97,400  | 33    | 95,000  | 32    | 92,200  | 32    | 89,000  | 31    | 85,400  | 29    | 80,100  | 27    |
| 235    | 3600             | 1 71             |   |       | 103,000   | 40    | 101,000   | 38    | 99,200  | 38    | 96,400  | 37    | 92,800  | 36    | 89,000  | 34    |
| 248    | 3800             | 1 90             |   |       | 110,000   | 47    | 108,000   | 46    | 105,000   | 45    | 103,000   | 44    | 100,000   | 43    | 96,800  | 42    |
| 262    | 4000             | 2 11             |   |       |   |       | 114,000   | 54    | 112,000   | 52    | 110,000   | 52    | 107,000   | 52    | 104,000   | 50    |
| 275    | 4200             | 2 32             |   |       |   |       | 120,000   | 62    | 118,000   | 62    | 116,000   | 60    | 114,000   | 60    | 112,000   | 58    |
| 288    | 4400             | 2 55             |   |       |   |       | 126,000   | 72    | 125,000   | 72    | 123,000   | 70    | 121,000   | 70    | 119,000   | 68    |
| 301    | 4600             | 2 78             |   |       |   |       | 133,000   | 82    | 131,000   | 80    | 130,000   | 80    | 128,000   | 78    | 126,000   | 78    |
| 314    | 4800             | 3 03             |   |       |   |       |   |       | 138,000   | 92    | 136,000   | 92    | 134,000   | 90    | 133,000   | 90    |
| 327    | 5000             | 3 29             |   |       |   |       |   |       | 144,000   | 105   | 142,000   | 105   | 141,000   | 105   | 139,000   | 100   |
| 343    | 5250             | 3 63             |   |       |   |       |   |       | 152,000   | 125   | 150,000   | 120   | 149,000   | 120   | 147,000   | 120   |
| 360    | 5500             | 3 98             |   |       |   |       |   |       |   |       | 158,000   | 140   | 156,000   | 135   | 155,000   | 150   |
| 376    | 5750             | 4 35             |   |       |   |       |   |       |   |       | 166,000   | 160   | 165,000   | 160   | 163,000   | 155   |
| 392    | 6000             | 4 74             |   |       |   |       |   |       |   |       | 173,000   | 185   | 172,000   | 180   | 171,000   | 180   |
| 408    | 6250             | 5 14             |   |       |   |       |   |       |   |       |   |       | 180,000   | 210   | 179,000   | 200   |
| 425    | 6500             | 5 56             |   |       |   |       |   |       |   |       |   |       | 188,000   | 230   | 187,000   | 230   |
| 441    | 6750             | 5 99             |   |       |   |       |   |       |   |       |   |       |   |       | 191,000   | 260   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1/4" Water .578 ozs. per sq. inch   |       | Static Pressure 1/4" Water .723 ozs. per sq. inch |       | Static Pressure 1/2" Water .878 ozs. per sq. inch |       | Static Pressure 1/2" Water 1.01 ozs. per sq. inch |       | Static Pressure 2" Water 1.16 ozs. per sq. inch   |       | Static Pressure 2 1/2" Water 1.45 ozs. per sq. inch |       | Static Pressure 3" Water 1.73 ozs. per sq. inch   |       |
| 196    | 3000             | 1 19             | 35,000  | 9 5   |   |       |   |       |   |       |   |       |   |       |   |       |
| 209    | 3200             | 1 35             | 63,200  | 19    | 6,300   | 5 8   |   |       |   |       |   |       |   |       |   |       |
| 222    | 3400             | 1 52             | 74,600  | 25    | 55,600  | 19    |   |       |   |       |   |       |   |       |   |       |
| 235    | 3600             | 1 71             | 84,000  | 32    | 72,000  | 27    | 15,300  | 9 5   |   |       |   |       |   |       |   |       |
| 248    | 3800             | 1 90             | 93,200  | 40    | 83,400  | 35    | 68,400  | 29    | 8,260   | 9 8   |   |       |   |       |   |       |
| 262    | 4000             | 2 11             | 101,000   | 48    | 93,200  | 44    | 82,400  | 39    | 62,800  | 30    |   |       |   |       |   |       |
| 275    | 4200             | 2 32             | 109,000   | 58    | 102,000   | 54    | 93,400  | 48    | 81,200  | 42    | 23,800  | 16    |   |       |   |       |
| 288    | 4400             | 2 55             | 117,000   | 68    | 110,000   | 64    | 103,000   | 58    | 98,800  | 54    | 79,200  | 43    |   |       |   |       |
| 301    | 4600             | 2 78             | 123,000   | 78    | 118,000   | 74    | 112,000   | 70    | 104,000   | 66    | 95,200  | 58    | 14,900  | 19    |   |       |
| 314    | 4800             | 3 03             | 130,000   | 88    | 120,000   | 86    | 120,000   | 82    | 113,000   | 78    | 105,000   | 72    | 77,800  | 52    |   |       |
| 327    | 5000             | 3 29             | 137,000   | 100   | 133,000   | 98    | 128,000   | 98    | 121,000   | 92    | 115,000   | 86    | 95,800  | 70    | 13,000  | 23    |
| 343    | 5250             | 3 63             | 145,000   | 115   | 142,000   | 115   | 137,000   | 110   | 133,000   | 110   | 126,000   | 105   | 111,000   | 90    | 84,400  | 68    |
| 360    | 5500             | 3 98             | 154,000   | 135   | 150,000   | 135   | 146,000   | 130   | 142,000   | 130   | 137,000   | 125   | 124,000   | 110   | 106,000   | 94    |
| 376    | 5750             | 4 35             | 161,000   | 155   | 159,000   | 155   | 155,000   | 150   | 151,000   | 150   | 146,000   | 145   | 136,000   | 130   | 122,000   | 120   |
| 392    | 6000             | 4 74             | 170,000   | 180   | 167,000   | 175   | 164,000   | 175   | 160,000   | 170   | 156,000   | 170   | 147,000   | 155   | 135,000   | 145   |
| 408    | 6250             | 5 14             | 178,000   | 200   | 175,000   | 200   | 172,000   | 200   | 169,000   | 195   | 165,000   | 190   | 157,000   | 185   | 147,000   | 170   |
| 425    | 6500             | 5 56             | 185,000   | 230   | 182,000   | 230   | 180,000   | 220   | 178,000   | 220   | 174,000   | 220   | 167,000   | 210   | 158,000   | 200   |
| 441    | 6750             | 5 99             | 193,000   | 260   | 191,000   | 260   | 189,000   | 250   | 186,000   | 250   | 183,000   | 250   | 176,000   | 240   | 168,000   | 230   |
| 458    | 7000             | 6 45             | 200,000   | 290   | 199,000   | 290   | 196,000   | 280   | 194,000   | 280   | 192,000   | 280   | 185,000   | 270   | 178,000   | 260   |
| 490    | 7500             | 7 40             | 216,000   | 360   | 214,000   | 350   | 212,000   | 350   | 210,000   | 350   | 208,000   | 340   | 202,000   | 340   | 197,000   | 330   |
| 523    | 8000             | 8 41             |   |       | 230,000   | 430   | 228,000   | 430   | 226,000   | 420   | 224,000   | 420   | 220,000   | 410   | 216,000   | 410   |
| 555    | 8500             | 9 50             |   |       | 246,000   | 520   | 244,000   | 520   | 242,000   | 510   | 240,000   | 510   | 236,000   | 500   | 232,000   | 500   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 3 1/2" Water 2.62 ozs. per sq. inch |       | Static Pressure 4" Water 2.31 ozs. per sq. inch   |       | Static Pressure 5" Water 2.89 ozs. per sq. inch   |       | Static Pressure 6" Water 3.47 ozs. per sq. inch   |       | Static Pressure 7" Water 4.05 ozs. per sq. inch   |       | Static Pressure 8" Water 4.63 ozs. per sq. inch     |       | Static Pressure 9" Water 5.2 ozs. per sq. inch    |       |
| 360    | 5500             | 3 98             | 23,400  | 34    |   |       |   |       |   |       |   |       |   |       |   |       |
| 376    | 5750             | 4 35             | 100,000   | 96    |   |       |   |       |   |       |   |       |   |       |   |       |
| 392    | 6000             | 4 74             | 119,000   | 125   | 60,000  | 60    |   |       |   |       |   |       |   |       |   |       |
| 408    | 6250             | 5 14             | 134,000   | 150   | 115,000   | 130   |   |       |   |       |   |       |   |       |   |       |
| 425    | 6500             | 5 56             | 147,000   | 180   | 133,000   | 165   | 20,800  | 54    |   |       |   |       |   |       |   |       |
| 441    | 6750             | 5 99             | 158,000   | 210   | 147,000   | 195   | 103,000   | 135   |   |       |   |       |   |       |   |       |
| 458    | 7000             | 6 45             | 170,000   | 250   | 159,000   | 230   | 131,000   | 190   | 12,200  | 56    |   |       |   |       |   |       |
| 490    | 7500             | 7 40             | 190,000   | 320   | 182,000   | 300   | 161,000   | 270   | 128,000   | 210   | 9,520   | 68    |   |       |   |       |
| 523    | 8000             | 8 41             | 210,000   | 400   | 202,000   | 390   | 186,000   | 350   | 165,000   | 310   | 126,000   | 240   | 8,540   | 76    |   |       |
| 555    | 8500             | 9 50             | 228,000   | 490   | 222,000   | 480   | 208,000   | 450   | 191,000   | 410   | 170,000   | 360   | 114,000   | 270   | 10,200  | 100   |
| 588    | 9000             | 10 67            | 241,000   | 580   | 240,000   | 580   | 228,000   | 550   | 216,000   | 520   | 198,000   | 470   | 175,000   | 410   | 160,200   | 220   |
| 620    | 9500             | 11 89            | 262,000   | 700   | 258,000   | 690   | 248,000   | 670   | 236,000   | 640   | 222,600   | 590   | 206,000   | 510   | 183,000   | 480   |
| 654    | 10000            | 13 17            | 278,000   | 810   | 274,000   | 810   | 266,000   | 790   | 256,000   | 760   | 241,000   | 730   | 230,000   | 680   | 214,000   | 620   |

Double Inlet

## No. 12 Multivane Fan — Design 3

Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. |
|--------|------------------|------------------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|
|        |                  |                  | Static Pressure 1" Water .0722 ozs. per sq. inch    |       | Static Pressure 1 1/4" Water .145 ozs. per sq. inch |       | Static Pressure 1 1/2" Water .217 ozs. per sq. inch |       | Static Pressure 1 3/4" Water .289 ozs. per sq. inch |       | Static Pressure 2" Water .361 ozs. per sq. inch     |       | Static Pressure 2 1/4" Water .434 ozs. per sq. inch |       | Static Pressure 2 1/2" Water .506 ozs. per sq. inch |       |
| 62     | 1075             | 0 152            | 7,360   | 0 31  |   |       |   |       |   |       |   |       |   |       |   |       |
| 71     | 1200             | 0 189            | 22,100  | 1 35  |   |       |   |       |   |       |   |       |   |       |   |       |
| 82     | 1400             | 0 258            | 41,600  | 2 5   | 1,150   | 0 52  |   |       |   |       |   |       |   |       |   |       |
| 94     | 1600             | 0 337            | 52,800  | 4 0   | 38,800  | 2 9   |   |       |   |       |   |       |   |       |   |       |
| 106    | 1800             | 0 426            | 61,000  | 5 8   | 52,000  | 5 0   | 9,400   | 1 15  |   |       |   |       |   |       |   |       |
| 118    | 2000             | 0 526            | 69,200  | 8 1   | 62,400  | 7 5   | 50,800  | 5 9   | 2,640   | 1 5   |   |       |   |       |   |       |
| 129    | 2200             | 0 636            | 77,000  | 11    | 71,800  | 10 5  | 63,400  | 9 1   | 49,600  | 7 0   | 906   | 1 8   |   |       |   |       |
| 141    | 2400             | 0 759            | 84,800  | 14    | 80,400  | 14 0  | 74,200  | 13    | 65,000  | 11 0  | 48,200  | 8 2   | 692   | 2 3   |   |       |
| 153    | 2600             | 0 889            | 92,200  | 18    | 88,600  | 17 5  | 83,600  | 17    | 76,600  | 15 5  | 66,800  | 13 0  | 47,800  | 9 7   |   |       |
| 165    | 2800             | 1 03             |   |       | 96,800  | 22    | 92,400  | 22    | 87,000  | 20    | 79,600  | 18 5  | 68,000  | 15 5  | 48,200  | 12 0  |
| 177    | 3000             | 1 19             |   |       | 105,000   | 28    | 101,000   | 27    | 96,400  | 26    | 90,600  | 24    | 83,000  | 22    | 73,600  | 19 5  |
| 188    | 3200             | 1 35             |   |       | 112,000   | 34    | 109,000   | 33    | 105,000   | 32    | 101,000   | 31    | 94,800  | 29    | 87,200  | 27    |
| 200    | 3400             | 1 52             |   |       | 120,000   | 41    | 117,000   | 40    | 114,000   | 39    | 110,000   | 39    | 105,000   | 36    | 99,200  | 34    |
| 212    | 3600             | 1 71             |   |       | 128,000   | 49    | 125,000   | 47    | 122,000   | 47    | 119,000   | 46    | 114,000   | 44    | 110,000   | 42    |
| 224    | 3800             | 1 90             |   |       | 136,000   | 58    | 133,000   | 56    | 130,000   | 56    | 127,000   | 54    | 124,000   | 51    | 117,000   | 52    |
| 235    | 4000             | 2 11             |   |       |   |       | 141,000   | 66    | 138,000   | 64    | 136,000   | 64    | 133,000   | 64    | 128,000   | 62    |
| 247    | 4200             | 2 32             |   |       |   |       | 149,000   | 78    | 146,000   | 76    | 144,000   | 74    | 141,000   | 74    | 138,000   | 72    |
| 259    | 4400             | 2 55             |   |       |   |       | 156,000   | 90    | 154,000   | 88    | 152,000   | 86    | 149,000   | 86    | 147,000   | 84    |
| 271    | 4600             | 2 78             |   |       |   |       | 164,000   | 100   | 162,000   | 100   | 160,000   | 98    | 157,000   | 98    | 155,000   | 96    |
| 282    | 4800             | 3 03             |   |       |   |       |   |       | 170,000   | 115   | 168,000   | 110   | 166,000   | 110   | 164,000   | 110   |
| 294    | 5000             | 3 29             |   |       |   |       |   |       | 177,000   | 130   | 176,000   | 130   | 173,000   | 130   | 171,000   | 125   |
| 309    | 5250             | 3 63             |   |       |   |       |   |       | 187,000   | 150   | 185,000   | 150   | 183,000   | 150   | 181,000   | 150   |
| 324    | 5500             | 3 98             |   |       |   |       |   |       |   |       | 195,000   | 170   | 193,000   | 170   | 191,000   | 170   |
| 338    | 5750             | 4 35             |   |       |   |       |   |       |   |       | 204,000   | 200   | 203,000   | 195   | 202,000   | 195   |
| 353    | 6000             | 4 74             |   |       |   |       |   |       |   |       | 214,000   | 230   | 212,000   | 220   | 211,000   | 220   |
| 368    | 6250             | 5 11             |   |       |   |       |   |       |   |       |   |       | 222,000   | 250   | 220,000   | 250   |
| 382    | 6500             | 5 56             |   |       |   |       |   |       |   |       |   |       | 232,000   | 290   | 230,000   | 290   |
| 397    | 6750             | 5 99             |   |       |   |       |   |       |   |       |   |       |   |       | 240,000   | 320   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 ozs. per sq. inch     |       | Static Pressure 1 1/4" Water .723 ozs. per sq. inch |       | Static Pressure 1 1/2" Water .878 ozs. per sq. inch |       | Static Pressure 1 3/4" Water 1.01 ozs. per sq. inch |       | Static Pressure 2" Water 1.16 ozs. per sq. inch     |       | Static Pressure 2 1/4" Water 1.45 ozs. per sq. inch |       | Static Pressure 2 1/2" Water 1.73 ozs. per sq. inch |       |
| 177    | 3000             | 1 19             | 43,200  | 12    |   |       |   |       |   |       |   |       |   |       |   |       |
| 188    | 3200             | 1 35             | 78,000  | 23    | 7,780   | 7 1   |   |       |   |       |   |       |   |       |   |       |
| 200    | 3400             | 1 52             | 92,000  | 31    | 68,600  | 23    |   |       |   |       |   |       |   |       |   |       |
| 212    | 3600             | 1 71             | 104,000   | 40    | 49,000  | 34    | 18,800  | 11 5  |   |       |   |       |   |       |   |       |
| 224    | 3800             | 1 90             | 115,000   | 49    | 103,000   | 44    | 84,400  | 36    | 10,200  | 12 37 |   |       |   |       |   |       |
| 235    | 4000             | 2 11             | 125,000   | 60    | 115,000   | 54    | 102,000   | 48    | 77,400  |       |   |       |   |       |   |       |
| 247    | 4200             | 2 32             | 134,000   | 70    | 126,000   | 66    | 115,000   | 60    | 100,000   | 52    | 29,400  | 20    |   |       |   |       |
| 259    | 4400             | 2 55             | 144,000   | 82    | 136,000   | 74    | 127,000   | 72    | 116,000   | 66    | 97,600  | 54    |   |       |   |       |
| 271    | 4600             | 2 78             | 152,000   | 96    | 146,000   | 92    | 138,000   | 86    | 128,000   | 80    | 117,000   | 72    | 18,400  | 23    |   |       |
| 282    | 4800             | 3 03             | 161,000   | 110   | 155,000   | 110   | 148,000   | 100   | 140,000   | 96    | 130,000   | 88    | 96,000  | 66    |   |       |
| 294    | 5000             | 3 29             | 169,000   | 125   | 164,000   | 125   | 158,000   | 120   | 150,000   | 110   | 142,000   | 110   | 118,000   | 86    | 16,100  | 29    |
| 309    | 5250             | 3 63             | 179,000   | 145   | 175,000   | 145   | 169,000   | 140   | 164,000   | 135   | 156,000   | 130   | 137,000   | 110   | 104,000   | 84    |
| 324    | 5500             | 3 98             | 189,000   | 170   | 185,000   | 165   | 181,000   | 165   | 175,000   | 155   | 169,000   | 150   | 153,000   | 135   | 131,000   | 115   |
| 338    | 5750             | 4 35             | 199,000   | 190   | 196,000   | 190   | 191,000   | 190   | 187,000   | 185   | 181,000   | 175   | 168,000   | 165   | 150,000   | 145   |
| 353    | 6000             | 4 74             | 210,000   | 220   | 206,000   | 220   | 202,000   | 220   | 198,000   | 210   | 193,000   | 210   | 181,000   | 190   | 166,000   | 175   |
| 368    | 6250             | 5 11             | 219,000   | 250   | 216,000   | 250   | 212,000   | 250   | 208,000   | 240   | 204,000   | 240   | 194,000   | 230   | 181,000   | 210   |
| 382    | 6500             | 5 56             | 228,000   | 280   | 226,000   | 280   | 222,000   | 280   | 220,000   | 270   | 214,000   | 270   | 206,000   | 260   | 195,000   | 240   |
| 397    | 6750             | 5 99             | 238,000   | 320   | 236,000   | 320   | 232,000   | 310   | 230,000   | 310   | 226,000   | 300   | 218,000   | 290   | 208,000   | 280   |
| 412    | 7000             | 6 45             | 248,000   | 350   | 246,000   | 350   | 242,000   | 350   | 240,000   | 350   | 236,000   | 340   | 228,000   | 330   | 220,000   | 320   |
| 441    | 7500             | 7 40             | 266,000   | 440   | 264,000   | 440   | 262,000   | 430   | 260,000   | 430   | 256,000   | 420   | 250,000   | 420   | 244,000   | 410   |
| 471    | 8000             | 8 41             | 284,000   | 530   | 282,000   | 530   | 280,000   | 530   | 280,000   | 520   | 276,000   | 520   | 272,000   | 510   | 266,000   | 510   |
| 500    | 8500             | 9 50             | 304,000   | 640   | 300,000   | 640   | 300,000   | 640   | 298,000   | 630   | 296,000   | 630   | 292,000   | 620   | 286,000   | 610   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 3 1/2" Water 2.02 ozs. per sq. inch |       | Static Pressure 4" Water 2.31 ozs. per sq. inch     |       | Static Pressure 4 1/2" Water 2.89 ozs. per sq. inch |       | Static Pressure 5" Water 3.47 ozs. per sq. inch     |       | Static Pressure 5 1/2" Water 4.05 ozs. per sq. inch |       | Static Pressure 6" Water 4.63 ozs. per sq. inch     |       | Static Pressure 6 1/2" Water 5.2 ozs. per sq. inch  |       |
| 324    | 5500             | 3 98             | 28,800  | 42    |   |       |   |       |   |       |   |       |   |       |   |       |
| 338    | 5750             | 4 35             | 123,000   | 120   |   |       |   |       |   |       |   |       |   |       |   |       |
| 353    | 6000             | 4 74             | 147,000   | 150   | 74,200  | 74    |   |       |   |       |   |       |   |       |   |       |
| 368    | 6250             | 5 11             | 165,000   | 190   | 142,000   | 165   |   |       |   |       |   |       |   |       |   |       |
| 382    | 6500             | 5 56             | 181,000   | 230   | 164,000   | 200   | 25,600  | 66    |   |       |   |       |   |       |   |       |
| 397    | 6750             | 5 99             | 195,000   | 260   | 185,000   | 240   | 128,000   | 170   |   |       |   |       |   |       |   |       |
| 412    | 7000             | 6 45             | 210,000   | 300   | 197,000   | 280   | 161,000   | 230   | 15,000  | 70    |   |       |   |       |   |       |
| 441    | 7500             | 7 40             | 231,000   | 390   | 226,000   | 380   | 199,000   | 330   | 157,000   | 260   | 11,700  | 84    |   |       |   |       |
| 471    | 8000             | 8 41             | 258,000   | 490   | 250,000   | 480   | 230,000   | 430   | 204,000   | 380   | 155,000   | 290   | 10,500  | 94    | 12,600  | 125   |
| 500    | 8500             | 9 50             | 280,000   | 600   | 274,000   | 590   | 258,000   | 550   | 236,000   | 500   | 210,000   | 440   | 141,000   | 310   | 111,000   | 280   |
| 530    | 9000             | 10 67            | 300,000   | 720   | 296,000   | 710   | 282,000   | 680   | 266,000   | 640   | 244,000   | 580   | 216,000   | 510   | 226,000   | 600   |
| 559    | 9500             | 11 89            | 322,000   | 860   | 318,000   | 850   | 306,000   | 820   | 292,000   | 780   | 274,000   | 730   | 252,000   | 670   | 246,000   | 770   |
| 588    | 10000            | 13 17            | 344,000   | 1000  | 338,000   | 1000  | 328,000   | 980   | 316,000   | 940   | 302,000   | 900   | 284,000   | 840   | 264,000   | 840   |

# Double Inlet **No. 13 Multivane Fan—Design 3** Double Width When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M. H. P. Static Pressure 1/2" Water .0722 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1/2" Water .145 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1/2" Water .217 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1/2" Water .289 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1/2" Water .361 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1/2" Water .434 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1/2" Water .506 ozs. per sq. inch |
|--------|------------------|------------------|--|---|---|---|---|---|---|
| 56     | 1075             | 0 152            | 8,920 0 38   |   |   |   |   |   |   |
| 64     | 1200             | 0 189            | 39,400 1 65  |   |   |   |   |   |   |
| 75     | 1400             | 0 258            | 52,800 3 1   | 1,400 0 63  |   |   |   |   |   |
| 86     | 1600             | 0 337            | 61,000 4 8   | 47,200 3 5  |   |   |   |   |   |
| 96     | 1800             | 0 426            | 74,000 7 1   | 62,000 6 0  | 11,100 1 75   |   |   |   |   |
| 107    | 2000             | 0 526            | 84,000 9 8   | 76,000 9 0  | 61,600 7 2  | 3,200 1 8   |   |   |   |
| 118    | 2200             | 0 636            | 93,600 13 0  | 87,000 12 5   | 77,000 11   | 60,000 8 6  | 1,100 2 2   |   |   |
| 128    | 2400             | 0 759            | 103,000 17 5   | 97,400 16 5   | 90,000 15   | 78,800 13   | 58,600 10   | 840 2 8   |   |
| 139    | 2600             | 0 889            | 112,000 22   | 107,000 21  | 101,000 20  | 93,000 19   | 81,000 16   | 58,000 10   |   |
| 150    | 2800             | 1 03             | 117,000 27   | 112,000 26  | 112,000 25  | 106,000 25  | 96,800 22   | 82,000 19   | 58,400 15   |
| 160    | 3000             | 1 19             | 127,000 33   | 123,000 33  | 117,000 31  | 110,000 29  | 101,000 27  | 91,000 24   | 89,200 24   |
| 171    | 3200             | 1 35             | 136,000 41   | 133,000 40  | 128,000 39  | 122,000 37  | 115,000 35  | 106,000 32  | 106,000 32  |
| 182    | 3400             | 1 52             | 146,000 49   | 142,000 48  | 138,000 47  | 133,000 47  | 128,000 44  | 121,000 41  | 121,000 41  |
| 193    | 3600             | 1 71             | 155,000 60   | 152,000 58  | 148,000 56  | 144,000 56  | 139,000 54  | 133,000 52  | 133,000 52  |
| 203    | 3800             | 1 90             | 164,000 70   | 161,000 68  | 158,000 66  | 154,000 66  | 150,000 64  | 145,000 62  | 145,000 62  |
| 214    | 4000             | 2 11             |  | 171,000 80  | 168,000 78  | 165,000 78  | 161,000 76  | 156,000 74  | 156,000 74  |
| 225    | 4200             | 2 32             |  | 180,000 94  | 177,000 92  | 174,000 90  | 171,000 90  | 167,000 88  | 167,000 88  |
| 236    | 4400             | 2 55             |  | 189,000 110   | 187,000 110   | 184,000 105   | 181,000 105   | 178,000 105   | 178,000 105   |
| 246    | 4600             | 2 78             |  | 199,000 125   | 196,000 120   | 194,000 120   | 191,000 120   | 188,000 115   | 188,000 115   |
| 257    | 4800             | 3 03             |  |   | 206,000 140   | 204,000 135   | 202,000 135   | 198,000 135   | 198,000 135   |
| 268    | 5000             | 3 29             |  |   | 216,000 155   | 214,000 155   | 210,000 150   | 208,000 150   | 208,000 150   |
| 281    | 5250             | 3 63             |  |   | 226,000 185   | 224,000 180   | 222,000 180   | 220,000 175   | 220,000 175   |
| 294    | 5500             | 3 98             |  |   |   | 236,000 210   | 234,000 210   | 232,000 210   | 232,000 210   |
| 308    | 5750             | 4 35             |  |   |   | 248,000 240   | 246,000 240   | 244,000 240   | 244,000 240   |
| 321    | 6000             | 4 74             |  |   |   | 260,000 280   | 258,000 270   | 256,000 270   | 256,000 270   |
| 334    | 6250             | 5 14             |  |   |   |   | 270,000 310   | 268,000 310   | 268,000 310   |
| 348    | 6500             | 5 56             |  |   |   |   | 282,000 350   | 280,000 350   | 280,000 350   |
| 361    | 6750             | 5 99             |  |   |   |   |   | 292,000 390   | 292,000 390   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 ozs. per sq. inch                        | Static Pressure 1 1/4" Water .723 ozs. per sq. inch                   | Static Pressure 1 1/2" Water .878 ozs. per sq. inch                   | Static Pressure 1 3/4" Water 1.01 ozs. per sq. inch                   | Static Pressure 2" Water 1.16 ozs. per sq. inch                       | Static Pressure 2 1/2" Water 1.45 ozs. per sq. inch                   | Static Pressure 3" Water 1.73 ozs. per sq. inch                       |
| 160    | 3000             | 1 19             | 52,400 14  |   |   |   |   |   |   |
| 171    | 3200             | 1 35             | 84,600 28  | 9,440 8 7   |   |   |   |   |   |
| 182    | 3400             | 1 52             | 112,000 38   | 83,200 28   |   |   |   |   |   |
| 193    | 3600             | 1 71             | 126,000 48   | 108,000 41  | 22,800 14   |   |   |   |   |
| 203    | 3800             | 1 90             | 140,000 60   | 125,000 52  | 103,000 43  | 12,300 15   |   |   |   |
| 214    | 4000             | 2 11             | 152,000 72   | 139,000 66  | 123,000 58  | 94,000 44   |   |   |   |
| 225    | 4200             | 2 32             | 163,000 86   | 153,000 80  | 140,000 72  | 121,000 62  | 35,600 24   |   |   |
| 236    | 4400             | 2 55             | 174,000 100  | 165,000 96  | 154,000 88  | 140,000 80  | 118,000 66  |   |   |
| 246    | 4600             | 2 78             | 184,000 115  | 177,000 110   | 167,000 105   | 155,000 98  | 142,000 88  | 22,400 28   |   |
| 257    | 4800             | 3 03             | 195,000 130  | 188,000 130   | 180,000 125   | 169,000 110   | 157,000 110   | 116,000 78  |   |
| 268    | 5000             | 3 29             | 206,000 150  | 199,000 150   | 192,000 145   | 183,000 135   | 172,000 130   | 143,000 105   | 19,500 35   |
| 281    | 5250             | 3 63             | 218,000 175  | 212,000 170   | 208,000 170   | 199,000 165   | 189,000 155   | 167,000 135   | 126,000 105   |
| 294    | 5500             | 3 98             | 230,000 200  | 226,000 200   | 220,000 200   | 212,000 190   | 204,000 185   | 186,000 165   | 150,000 140   |
| 308    | 5750             | 4 35             | 242,000 240  | 238,000 230   | 232,000 230   | 226,000 220   | 220,000 220   | 204,000 200   | 182,000 175   |
| 321    | 6000             | 4 74             | 254,000 270  | 250,000 260   | 246,000 260   | 240,000 260   | 234,000 250   | 220,000 210   | 202,000 210   |
| 334    | 6250             | 5 14             | 266,000 300  | 262,000 300   | 258,000 300   | 254,000 290   | 248,000 290   | 236,000 270   | 220,000 250   |
| 348    | 6500             | 5 56             | 278,000 340  | 274,000 340   | 270,000 340   | 266,000 330   | 260,000 330   | 250,000 320   | 236,000 300   |
| 361    | 6750             | 5 99             | 290,000 380  | 286,000 380   | 282,000 380   | 278,000 370   | 274,000 370   | 264,000 360   | 252,000 340   |
| 374    | 7000             | 6 45             | 300,000 430  | 298,000 430   | 294,000 420   | 290,000 420   | 286,000 410   | 278,000 400   | 266,000 390   |
| 401    | 7500             | 7 40             | 324,000 540  | 322,000 530   | 318,000 530   | 314,000 520   | 312,000 520   | 304,000 510   | 296,000 500   |
| 428    | 8000             | 8 41             |  | 344,000 640   | 342,000 640   | 340,000 640   | 336,000 630   | 330,000 620   | 322,000 610   |
| 455    | 8500             | 9 50             |  | 368,000 780   | 366,000 770   | 362,000 770   | 360,000 760   | 354,000 750   | 348,000 740   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 3 1/2" Water 2.02 ozs. per sq. inch                    | Static Pressure 4" Water 2.31 ozs. per sq. inch                       | Static Pressure 5" Water 2.89 ozs. per sq. inch                       | Static Pressure 6" Water 3.47 ozs. per sq. inch                       | Static Pressure 7" Water 4.05 ozs. per sq. inch                       | Static Pressure 8" Water 4.63 ozs. per sq. inch                       | Static Pressure 9" Water 5.2 ozs. per sq. inch                        |
| 294    | 5500             | 3 98             | 35,000 50  |   |   |   |   |   |   |
| 308    | 5750             | 4 35             | 149,000 145  |   |   |   |   |   |   |
| 321    | 6000             | 4 74             | 178,000 190  | 90,000 90   |   |   |   |   |   |
| 334    | 6250             | 5 14             | 200,000 230  | 172,000 195   |   |   |   |   |   |
| 348    | 6500             | 5 56             | 220,000 270  | 199,000 250   | 31,200 80   |   |   |   |   |
| 361    | 6750             | 5 99             | 236,000 320  | 220,000 290   | 155,000 210   |   |   |   |   |
| 374    | 7000             | 6 45             | 254,000 370  | 238,000 340   | 196,000 280   | 18,200 86   |   |   |   |
| 401    | 7500             | 7 40             | 286,000 480  | 274,000 460   | 242,000 400   | 191,000 460   | 14,200 100  |   |   |
| 428    | 8000             | 8 41             | 314,000 600  | 304,000 580   | 280,000 530   | 246,000 480   | 188,000 350   | 12,800 110  |   |
| 455    | 8500             | 9 50             | 340,000 730  | 332,000 710   | 312,000 670   | 288,000 610   | 256,000 540   | 171,000 410   | 15,300 150  |
| 481    | 9000             | 10 67            | 396,000 880  | 390,000 870   | 342,000 830   | 322,000 780   | 296,000 710   | 262,000 620   | 135,000 340   |
| 508    | 9500             | 11 89            | 392,000 1010   | 384,000 1040  | 370,000 1000  | 354,000 950   | 332,000 890   | 306,000 810   | 274,000 720   |
| 535    | 10000            | 13 17            | 416,000 1220   | 410,000 1210  | 398,000 1190  | 384,000 1140  | 366,000 1090  | 346,000 1020  | 320,000 940   |



Double Inlet

## No. 14 Multivane Fan—Design 3

Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.<br>Static Pressure 1/2" Water .0722 oza. per sq. inch | H. P.   | Volume C.F.M.<br>Static Pressure 3/4" Water .145 oza. per sq. inch | H. P.   | Volume C.F.M.<br>Static Pressure 1" Water .217 oza. per sq. inch | H. P.   | Volume C.F.M.<br>Static Pressure 1 1/4" Water .289 oza. per sq. inch | H. P.  | Volume C.F.M.<br>Static Pressure 1 1/2" Water .361 oza. per sq. inch | H. P.  | Volume C.F.M.<br>Static Pressure 1 3/4" Water .434 oza. per sq. inch | H. P.  | Volume C.F.M.<br>Static Pressure 2" Water .506 oza. per sq. inch | H. P.  |
|--------|------------------|------------------|---|---|--|---|--|---|--|--|--|--|--|--|--|--|
| 52     | 1075             | 0 152            | 10,600  | 0 45  |  |   |  |   |  |  |  |  |  |  |  |  |
| 59     | 1200             | 0 189            | 46,800  | 2 00  |  |   |  |   |  |  |  |  |  |  |  |  |
| 69     | 1400             | 0 258            | 62,800  | 3 7   | 1,660  | 0 75  |  |   |  |  |  |  |  |  |  |  |
| 78     | 1600             | 0 337            | 76,000  | 5 8   | 56,000   | 4 2   |  |   |  |  |  |  |  |  |  |  |
| 88     | 1800             | 0 426            | 88,000  | 8 1   | 74,800   | 7 2   | 13,600   | 2 1   |  |  |  |  |  |  |  |  |
| 98     | 2000             | 0 526            | 100,000   | 11 5  | 90,000   | 11  | 73,400   | 8 6   | 3,800  | 2 1  |  |  |  |  |  |  |
| 108    | 2200             | 0 636            | 111,000   | 16  | 104,000  | 15  | 91,600   | 13 0  | 71,400   | 10   | 1,210  | 2 6  |  |  |  |  |
| 118    | 2400             | 0 759            | 122,000   | 21  | 116,000  | 20  | 107,000  | 18 5  | 93,600   | 16   | 69,600   | 12   | 998  | 3 4  |  |  |
| 128    | 2600             | 0 889            | 133,000   | 26  | 128,000  | 25  | 121,000  | 24  | 110,000  | 22   | 96,000   | 19   |  |  |  |  |
| 137    | 2800             | 1 03             |   |   | 140,000  | 32  | 133,000  | 31  | 126,000  | 29   | 115,000  | 27   |  |  | 69,600   | 17 5   |
| 147    | 3000             | 1 19             |   |   | 151,000  | 40  | 146,000  | 39  | 139,000  | 37   | 131,000  | 35   |  |  | 106,000  | 28   |
| 151    | 3200             | 1 35             |   |   | 162,000  | 48  | 158,000  | 48  | 152,000  | 46   | 145,000  | 44   |  |  | 126,000  | 39   |
| 167    | 3400             | 1 52             |   |   | 173,000  | 58  | 169,000  | 58  | 164,000  | 56   | 158,000  | 56   |  |  | 143,000  | 49   |
| 177    | 3600             | 1 71             |   |   | 184,000  | 70  | 180,000  | 68  | 176,000  | 68   | 172,000  | 66   |  |  | 159,000  | 62   |
| 186    | 3800             | 1 90             |   |   | 195,000  | 84  | 192,000  | 82  | 188,000  | 80   | 184,000  | 78   |  |  | 172,000  | 74   |
| 196    | 4000             | 2 11             |   |   |  |   | 204,000  | 96  | 199,000  | 94   | 195,000  | 92   |  |  | 185,000  | 88   |
| 206    | 4200             | 2 32             |   |   |  |   | 214,000  | 110   | 210,000  | 110  | 208,000  | 110  |  |  | 199,000  | 105  |
| 216    | 4400             | 2 55             |   |   |  |   | 226,000  | 130   | 222,000  | 130  | 220,000  | 125  |  |  | 212,000  | 120  |
| 226    | 4600             | 2 78             |   |   |  |   | 236,000  | 150   | 234,000  | 145  | 230,000  | 145  |  |  | 224,000  | 140  |
| 235    | 4800             | 3 03             |   |   |  |   |  |   | 244,000  | 165  | 242,000  | 165  |  |  | 236,000  | 160  |
| 245    | 5000             | 3 29             |   |   |  |   |  |   | 256,000  | 190  | 254,000  | 185  |  |  | 248,000  | 180  |
| 257    | 5250             | 3 63             |   |   |  |   |  |   | 270,000  | 220  | 268,000  | 220  |  |  | 262,000  | 210  |
| 270    | 5500             | 3 98             |   |   |  |   |  |   |  |  | 280,000  | 250  |  |  | 276,000  | 240  |
| 282    | 5750             | 4 35             |   |   |  |   |  |   |  |  | 294,000  | 290  |  |  | 290,000  | 280  |
| 294    | 6000             | 4 74             |   |   |  |   |  |   |  |  | 308,000  | 330  |  |  | 304,000  | 320  |
| 306    | 6250             | 5 14             |   |   |  |   |  |   |  |  |  |  |  |  | 318,000  | 360  |
| 319    | 6500             | 5 56             |   |   |  |   |  |   |  |  |  |  |  |  | 332,000  | 410  |
| 331    | 6750             | 5 99             |   |   |  |   |  |   |  |  |  |  |  |  | 346,000  | 460  |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 oza. per sq. inch                     | Static Pressure 1 1/4" Water .723 oza. per sq. inch | Static Pressure 1 1/2" Water .878 oza. per sq. inch                | Static Pressure 1 3/4" Water 1.01 oza. per sq. inch | Static Pressure 2" Water 1.16 oza. per sq. inch                  | Static Pressure 2 1/4" Water 1.45 oza. per sq. inch | Static Pressure 2 1/2" Water 1.73 oza. per sq. inch                  | Static Pressure 3" Water 2.01 oza. per sq. inch  | Static Pressure 3 1/2" Water 2.29 oza. per sq. inch                  | Static Pressure 4" Water 2.57 oza. per sq. inch  | Static Pressure 4 1/2" Water 2.85 oza. per sq. inch                  | Static Pressure 5" Water 3.13 oza. per sq. inch  | Static Pressure 5 1/2" Water 3.41 oza. per sq. inch              | Static Pressure 6" Water 3.69 oza. per sq. inch  |
| 147    | 3000             | 1 19             | 62,400  | 17  |  |   |  |   |  |  |  |  |  |  |  |  |
| 151    | 3200             | 1 35             | 112,000   | 34  | 11,200   | 10  |  |   |  |  |  |  |  |  |  |  |
| 167    | 3400             | 1 52             | 133,000   | 45  | 98,800   | 34  |  |   |  |  |  |  |  |  |  |  |
| 177    | 3600             | 1 71             | 150,000   | 58  | 128,000  | 49  | 27,200   | 17  |  |  |  |  |  |  |  |  |
| 186    | 3800             | 1 90             | 166,000   | 72  | 149,000  | 62  | 122,000  | 52  | 14,700   | 17 5   |  |  |  |  |  |  |
| 196    | 4000             | 2 11             | 180,000   | 86  | 166,000  | 78  | 147,000  | 68  | 112,000  | 52   |  |  |  |  |  |  |
| 206    | 4200             | 2 32             | 194,000   | 100   | 182,000  | 94  | 166,000  | 86  | 144,000  | 74   | 42,400   | 29   |  |  |  |  |
| 216    | 4400             | 2 55             | 208,000   | 120   | 196,000  | 110   | 183,000  | 105   | 167,000  | 94   | 141,000  | 78   |  |  |  |  |
| 226    | 4600             | 2 78             | 220,000   | 135   | 210,000  | 130   | 199,000  | 125   | 185,000  | 115  | 169,000  | 105  | 26,000   | 33   |  |  |
| 235    | 4800             | 3 03             | 232,000   | 155   | 224,000  | 150   | 214,000  | 150   | 185,000  | 135  | 187,000  | 130  | 138,000  | 94   |  |  |
| 245    | 5000             | 3 29             | 244,000   | 180   | 236,000  | 175   | 228,000  | 170   | 218,000  | 165  | 204,000  | 150  | 170,000  | 125  | 23,200   | 41   |
| 257    | 5250             | 3 63             | 258,000   | 210   | 252,000  | 210   | 244,000  | 200   | 226,000  | 190  | 224,000  | 185  | 198,000  | 160  | 150,000  | 120  |
| 270    | 5500             | 3 98             | 274,000   | 240   | 268,000  | 240   | 260,000  | 240   | 252,000  | 230  | 244,000  | 220  | 220,000  | 195  | 189,000  | 170  |
| 282    | 5750             | 4 35             | 286,000   | 280   | 282,000  | 280   | 270,000  | 270   | 268,000  | 270  | 260,000  | 260  | 242,000  | 240  | 216,000  | 210  |
| 294    | 6000             | 4 74             | 302,000   | 320   | 298,000  | 310   | 292,000  | 310   | 286,000  | 300  | 278,000  | 300  | 262,000  | 280  | 240,000  | 250  |
| 306    | 6250             | 5 14             | 316,000   | 360   | 312,000  | 360   | 306,000  | 350   | 300,000  | 350  | 294,000  | 340  | 280,000  | 330  | 260,000  | 300  |
| 319    | 6500             | 5 56             | 330,000   | 410   | 324,000  | 400   | 320,000  | 400   | 316,000  | 390  | 310,000  | 390  | 296,000  | 370  | 282,000  | 350  |
| 331    | 6750             | 5 99             | 344,000   | 460   | 340,000  | 450   | 338,000  | 450   | 332,000  | 440  | 326,000  | 440  | 314,000  | 430  | 300,000  | 410  |
| 343    | 7000             | 6 45             | 358,000   | 510   | 354,000  | 510   | 350,000  | 510   | 346,000  | 500  | 340,000  | 490  | 330,000  | 480  | 316,000  | 460  |
| 368    | 7500             | 7 40             | 384,000   | 640   | 382,000  | 630   | 378,000  | 630   | 374,000  | 620  | 370,000  | 610  | 360,000  | 600  | 352,000  | 590  |
| 392    | 8000             | 8 41             |   |   | 410,000  | 760   | 406,000  | 760   | 404,000  | 760  | 400,000  | 750  | 392,000  | 740  | 384,000  | 730  |
| 416    | 8500             | 9 50             |   |   | 438,000  | 930   | 434,000  | 920   | 430,000  | 910  | 428,000  | 900  | 420,000  | 890  | 414,000  | 880  |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 3 1/2" Water 2.02 oza. per sq. inch                 | Static Pressure 4" Water 2.31 oza. per sq. inch     | Static Pressure 5" Water 2.89 oza. per sq. inch                    | Static Pressure 6" Water 3.47 oza. per sq. inch     | Static Pressure 7" Water 4.05 oza. per sq. inch                  | Static Pressure 8" Water 4.63 oza. per sq. inch     | Static Pressure 9" Water 5.21 oza. per sq. inch                      | Static Pressure 10" Water 5.79 oza. per sq. inch | Static Pressure 11" Water 6.37 oza. per sq. inch                     | Static Pressure 12" Water 6.95 oza. per sq. inch | Static Pressure 13" Water 7.53 oza. per sq. inch                     | Static Pressure 14" Water 8.11 oza. per sq. inch | Static Pressure 15" Water 8.69 oza. per sq. inch                 | Static Pressure 16" Water 9.27 oza. per sq. inch |
| 270    | 5500             | 3 98             | 41,600  | 60  |  |   |  |   |  |  |  |  |  |  |  |  |
| 282    | 5750             | 4 35             | 178,000   | 170   |  |   |  |   |  |  |  |  |  |  |  |  |
| 294    | 6000             | 4 74             | 212,000   | 220   | 107,000  | 110   |  |   |  |  |  |  |  |  |  |  |
| 306    | 6250             | 5 14             | 238,000   | 270   | 204,000  | 230   |  |   |  |  |  |  |  |  |  |  |
| 319    | 6500             | 5 56             | 262,000   | 320   | 236,000  | 290   | 37,000   | 94  |  |  |  |  |  |  |  |  |
| 331    | 6750             | 5 99             | 282,000   | 380   | 260,000  | 350   | 184,000  | 240   |  |  |  |  |  |  |  |  |
| 343    | 7000             | 6 45             | 302,000   | 440   | 284,000  | 410   | 232,000  | 330   | 21,600   | 100  |  |  |  |  |  |  |
| 368    | 7500             | 7 40             | 338,000   | 570   | 324,000  | 540   | 286,000  | 470   | 226,000  | 380  | 16,900   | 120  |  |  |  |  |
| 392    | 8000             | 8 41             | 372,000   | 710   | 360,000  | 690   | 332,000  | 620   | 292,000  | 550  | 224,000  | 420  | 15,200   | 135  |  |  |
| 416    | 8500             | 9 50             | 404,000   | 870   | 394,000  | 850   | 372,000  | 800   | 340,000  | 730  | 302,000  | 640  | 204,000  | 490  | 18,200   | 175  |
| 441    | 9000             | 10 67            | 434,000   | 1040  | 428,000  | 1030  | 406,000  | 980   | 382,000  | 930  | 352,000  | 840  | 312,000  | 740  | 160,000  | 400  |
| 465    | 9500             | 11 89            | 464,000   | 1240  | 456,000  | 1230  | 440,000  | 1180  | 420,000  | 1130   | 394,000  | 1060   | 364,000  | 970  | 326,000  | 800  |
| 490    | 10000            | 13 17            | 494,000   | 1450  | 488,000  | 1440  | 474,000  | 1410  | 456,000  | 1350   | 434,000  | 1300   | 410,000  | 1210   | 380,000  | 1110   |

Double Inlet

## No. 15 Multivane Fan—Design 3

Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M. H. P. Static Pressure 1" Water .0722 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1 1/2" Water .145 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 2" Water .217 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 2 1/2" Water .289 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 3" Water .361 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 3 1/2" Water .434 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 4" Water .506 ozs. per sq. inch |
|--------|------------------|------------------|--|---|---|---|---|---|---|
| 48     | 1075             | 0.152            | 12,400 0.53  |   |   |   |   |   |   |
| 54     | 1200             | 0.189            | 51,800 2.3   |   |   |   |   |   |   |
| 63     | 1400             | 0.258            | 73,100 4.3   | 1,950 0.88  |   |   |   |   |   |
| 72     | 1600             | 0.337            | 89,000 6.8   | 65,600 4.9  |   |   |   |   |   |
| 81     | 1800             | 0.426            | 103,000 9.9  | 88,000 8.1  | 15,900 2.5  |   |   |   |   |
| 91     | 2000             | 0.526            | 117,000 14   | 106,000 15.5  | 86,000 10.0   | 4,460 2.5   |   |   |   |
| 99     | 2200             | 0.636            | 130,000 18   | 121,000 17  | 107,000 15.5  | 83,600 12.0   | 1,530 3   |   |   |
| 109    | 2400             | 0.759            | 143,000 24   | 136,000 23  | 125,000 21  | 110,000 18.5  | 81,600 14   | 1,170 3.9   |   |
| 118    | 2600             | 0.889            | 156,000 31   | 150,000 30  | 141,000 28  | 129,000 26  | 113,000 22  | 80,800 16.5   |   |
| 127    | 2800             | 1.03             | 164,000 38   | 164,000 38  | 156,000 37  | 147,000 34  | 135,000 31  | 115,000 26  | 81,100 21   |
| 136    | 3000             | 1.19             | 177,000 47   | 177,000 47  | 171,000 46  | 163,000 44  | 153,000 41  | 140,000 37  | 121,000 33  |
| 145    | 3200             | 1.35             | 190,000 56   | 190,000 56  | 185,000 56  | 178,000 54  | 170,000 52  | 160,000 49  | 147,000 45  |
| 154    | 3400             | 1.52             |  | 204,000 68  | 198,000 68  | 192,000 66  | 185,000 66  | 178,000 62  | 168,000 58  |
| 163    | 3600             | 1.71             |  | 216,000 82  | 212,000 80  | 206,000 80  | 202,000 78  | 194,000 74  | 184,000 72  |
| 172    | 3800             | 1.90             |  | 228,000 98  | 224,000 96  | 220,000 94  | 216,000 92  | 210,000 90  | 202,000 86  |
| 181    | 4000             | 2.11             |  |   | 238,000 110   | 234,000 110   | 230,000 110   | 224,000 110   | 218,000 105   |
| 190    | 4200             | 2.32             |  |   | 252,000 130   | 246,000 130   | 242,000 130   | 238,000 125   | 231,000 125   |
| 199    | 4400             | 2.55             |  |   | 264,000 150   | 260,000 150   | 256,000 150   | 252,000 145   | 248,000 140   |
| 208    | 4600             | 2.78             |  |   | 276,000 170   | 274,000 170   | 270,000 170   | 266,000 165   | 262,000 165   |
| 217    | 4800             | 3.03             |  |   |   | 288,000 190   | 284,000 190   | 280,000 190   | 276,000 190   |
| 226    | 5000             | 3.29             |  |   |   | 300,000 220   | 296,000 220   | 294,000 210   | 290,000 210   |
| 238    | 5250             | 3.63             |  |   |   | 316,000 260   |   | 314,000 250   | 306,000 250   |
| 249    | 5500             | 3.98             |  |   |   |   | 330,000 290   | 326,000 290   | 322,000 290   |
| 260    | 5750             | 4.35             |  |   |   |   | 346,000 340   | 342,000 330   | 340,000 330   |
| 272    | 6000             | 4.74             |  |   |   |   | 362,000 380   | 360,000 380   | 356,000 380   |
| 283    | 6250             | 5.14             |  |   |   |   |   | 376,000 430   | 371,000 430   |
| 294    | 6500             | 5.56             |  |   |   |   |   | 392,000 490   | 398,000 480   |
| 305    | 6750             | 5.99             |  |   |   |   |   |   | 406,000 540   |
| 136    | 3000             | 1.19             | 73,000 20  |   |   |   |   |   |   |
| 145    | 3200             | 1.35             | 132,000 40   | 12,100 12   |   |   |   |   |   |
| 154    | 3400             | 1.52             | 155,000 52   | 116,000 39  |   |   |   |   |   |
| 163    | 3600             | 1.71             | 175,000 68   | 150,000 56  | 31,800 20   |   |   |   |   |
| 172    | 3800             | 1.90             | 194,000 84   | 174,000 74  | 143,000 60  | 17,200 21   |   |   |   |
| 181    | 4000             | 2.11             | 212,000 100  | 194,000 82  | 172,000 80  | 131,000 62  |   |   |   |
| 190    | 4200             | 2.32             | 228,000 120  | 212,000 110   | 195,000 100   | 169,000 88  | 49,600 34   |   |   |
| 199    | 4400             | 2.55             | 242,000 140  | 230,000 130   | 214,000 125   | 195,000 110   | 165,000 90  |   |   |
| 208    | 4600             | 2.78             | 256,000 160  | 246,000 155   | 234,000 150   | 216,000 135   | 198,000 125   | 31,000 39   |   |
| 217    | 4800             | 3.03             | 272,000 185  | 262,000 180   | 250,000 170   | 236,000 160   | 220,000 150   | 162,000 110   |   |
| 226    | 5000             | 3.29             | 286,000 210  | 278,000 210   | 268,000 200   | 254,000 190   | 240,000 180   | 200,000 150   | 27,200 48   |
| 238    | 5250             | 3.63             | 302,000 250  | 296,000 240   | 286,000 240   | 276,000 230   | 264,000 220   | 232,000 190   | 176,000 145   |
| 249    | 5500             | 3.98             | 320,000 280  | 314,000 280   | 306,000 280   | 296,000 270   | 286,000 260   | 258,000 230   | 222,000 195   |
| 260    | 5750             | 4.35             | 336,000 340  | 330,000 320   | 324,000 320   | 316,000 310   | 306,000 300   | 284,000 280   | 254,000 250   |
| 272    | 6000             | 4.74             | 354,000 370  | 348,000 370   | 342,000 370   | 334,000 360   | 326,000 350   | 306,000 330   | 280,000 300   |
| 283    | 6250             | 5.14             | 370,000 420  | 366,000 420   | 360,000 410   | 352,000 410   | 344,000 400   | 328,000 380   | 306,000 350   |
| 294    | 6500             | 5.56             | 386,000 480  | 380,000 470   | 376,000 470   | 370,000 460   | 362,000 460   | 348,000 440   | 330,000 410   |
| 305    | 6750             | 5.99             | 402,000 540  | 398,000 530   | 394,000 530   | 388,000 520   | 382,000 510   | 368,000 500   | 350,000 480   |
| 317    | 7000             | 6.45             | 418,000 600  | 414,000 600   | 410,000 590   | 406,000 580   | 400,000 580   | 386,000 560   | 372,000 540   |
| 340    | 7500             | 7.40             | 450,000 740  | 448,000 740   | 442,000 730   | 438,000 720   | 434,000 720   | 424,000 710   | 412,000 690   |
| 362    | 8000             | 8.41             |  | 480,000 900   | 476,000 890   | 472,000 890   | 468,000 870   | 458,000 860   | 450,000 850   |
| 384    | 8500             | 9.50             |  | 512,000 1080  | 508,000 1080  | 504,000 1070  | 500,000 1060  | 492,000 1050  | 484,000 1040  |
| 249    | 5300             | 3.98             | 48,600 70  |   |   |   |   |   |   |
| 260    | 5750             | 4.35             | 208,000 200  |   |   |   |   |   |   |
| 272    | 6000             | 4.74             | 248,000 260  | 125,000 130   |   |   |   |   |   |
| 283    | 6250             | 5.14             | 278,000 320  | 240,000 270   |   |   |   |   |   |
| 294    | 6500             | 5.56             | 306,000 380  | 278,000 340   |   |   |   |   |   |
| 305    | 6750             | 5.99             | 330,000 440  | 306,000 410   | 43,400 110  |   |   |   |   |
| 317    | 7000             | 6.45             | 354,000 520  | 332,000 480   | 272,000 390   | 25,400 120  |   |   |   |
| 340    | 7500             | 7.40             | 396,000 660  | 380,000 630   | 336,000 550   | 266,000 410   | 19,800 140  |   |   |
| 362    | 8000             | 8.41             | 436,000 830  | 422,000 810   | 388,000 730   | 344,000 640   | 262,000 490   | 17,800 160  |   |
| 384    | 8500             | 9.50             | 474,000 1020   | 462,000 990   | 436,000 930   | 398,000 850   | 354,000 750   | 238,000 570   | 21,200 210  |
| 407    | 9000             | 10.67            | 508,000 1220   | 500,000 1210  | 476,000 1150  | 448,000 1090  | 412,000 990   | 366,000 860   | 188,000 470   |
| 430    | 9500             | 11.89            | 544,000 1450   | 536,000 1440  | 516,000 1390  | 492,000 1320  | 462,000 1240  | 428,000 1130  | 382,000 1010  |
| 452    | 10000            | 13.17            | 580,000 1690   | 572,000 1690  | 556,000 1650  | 534,000 1590  | 508,000 1520  | 480,000 1420  | 444,000 1300  |

| Double Inlet   |                  |                  | No. 16 Multivane Fan—Design 3  |       |   |       |   |       |   |       |   |       | Double Width  |       |   |       |
|--|------------------|------------------|--|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|
| When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances |                  |                  |  |       |   |       |   |       |   |       |   |       |   |       |   |       |
| R.P.M.   | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.<br>Static Pressure 1/8" Water<br>.0722 oza. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure 1/4" Water<br>.145 oza. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure 3/8" Water<br>.217 oza. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure 1/2" Water<br>.289 oza. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure 5/8" Water<br>.361 oza. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure 3/4" Water<br>.434 oza. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure 7/8" Water<br>.506 oza. per sq. inch | H. P. |
| 41   | 1075             | 0 152            | 11,400   | 0 61  |   |       |   |       |   |       |   |       |   |       |   |       |
| 50   | 1200             | 0 189            | 63,600   | 2 7   |   |       |   |       |   |       |   |       |   |       |   |       |
| 59   | 1400             | 0 258            | 85,200   | 5 0   | 2,260   | 1 0   |   |       |   |       |   |       |   |       |   |       |
| 67   | 1600             | 0 347            | 103,000  | 7 8   | 76,200  | 5 7   |   |       |   |       |   |       |   |       |   |       |
| 76   | 1800             | 0 426            | 120,000  | 11    | 102,000   | 9 7   | 18,400  | 2 9   |   |       |   |       |   |       |   |       |
| 84   | 2000             | 0 526            | 136,000  | 16    | 122,000   | 11 5  | 100,000   | 11 5  | 5,180   | 2 9   |   |       |   |       |   |       |
| 93   | 2200             | 0 636            | 151,000  | 21    | 141,000   | 20    | 124,000   | 18    | 97,000  | 11    | 1,780   | 3 5   |   |       |   |       |
| 101  | 2400             | 0 739            | 166,000  | 28    | 157,000   | 27    | 145,000   | 25    | 127,000   | 22    | 94,600  | 16    | 1,360   | 4 6   |   |       |
| 109  | 2600             | 0 889            | 181,000  | 36    | 164,000   | 35    | 161,000   | 33    | 150,000   | 30    | 131,000   | 26    | 93,600  | 19    |   |       |
| 118  | 2800             | 1 03             | 190,000  | 44    | 181,000   | 44    | 181,000   | 42    | 171,000   | 40    | 156,000   | 36    | 133,000   | 31    | 94,400  | 24    |
| 126  | 3000             | 1 19             | 206,000  | 54    | 198,000   | 54    | 198,000   | 54    | 189,000   | 50    | 177,000   | 47    | 163,000   | 43    | 141,000   | 38    |
| 134  | 3200             | 1 35             | 220,000  | 66    | 214,000   | 66    | 214,000   | 64    | 206,000   | 64    | 197,000   | 60    | 186,000   | 56    | 171,000   | 52    |
| 143  | 3400             | 1 52             | 236,000  | 80    | 230,000   | 78    | 230,000   | 78    | 224,000   | 76    | 216,000   | 76    | 206,000   | 70    | 195,000   | 66    |
| 151  | 3600             | 1 71             | 250,000  | 96    | 246,000   | 92    | 246,000   | 92    | 240,000   | 92    | 231,000   | 90    | 224,000   | 86    | 216,000   | 84    |
| 160  | 3800             | 1 90             | 266,000  | 110   | 260,000   | 110   | 260,000   | 110   | 254,000   | 110   | 250,000   | 110   | 242,000   | 105   | 234,000   | 100   |
| 168  | 4000             | 2 11             | 276,000  | 130   | 276,000   | 130   | 276,000   | 130   | 272,000   | 130   | 266,000   | 130   | 260,000   | 125   | 254,000   | 120   |
| 176  | 4200             | 2 32             | 292,000  | 150   | 292,000   | 150   | 292,000   | 150   | 286,000   | 150   | 282,000   | 150   | 278,000   | 145   | 270,000   | 145   |
| 185  | 4400             | 2 55             | 306,000  | 175   | 306,000   | 175   | 306,000   | 175   | 302,000   | 170   | 298,000   | 170   | 292,000   | 170   | 288,000   | 165   |
| 193  | 4600             | 2 78             | 322,000  | 200   | 322,000   | 200   | 322,000   | 200   | 318,000   | 195   | 314,000   | 195   | 308,000   | 190   | 304,000   | 190   |
| 202  | 4800             | 3 03             | 332,000  | 220   | 332,000   | 220   | 332,000   | 220   | 328,000   | 220   | 324,000   | 220   | 324,000   | 220   | 320,000   | 220   |
| 210  | 5000             | 3 29             | 348,000  | 250   | 348,000   | 250   | 348,000   | 250   | 344,000   | 250   | 340,000   | 250   | 340,000   | 250   | 336,000   | 250   |
| 220  | 5250             | 3 63             | 364,000  | 290   | 364,000   | 290   | 364,000   | 290   | 360,000   | 300   | 356,000   | 290   | 356,000   | 290   | 356,000   | 290   |
| 231  | 5500             | 3 98             | 382,000  | 340   | 382,000   | 340   | 382,000   | 340   | 378,000   | 340   | 374,000   | 340   | 374,000   | 340   | 374,000   | 340   |
| 242  | 5750             | 4 35             | 400,000  | 390   | 400,000   | 390   | 400,000   | 390   | 400,000   | 390   | 398,000   | 380   | 398,000   | 380   | 394,000   | 380   |
| 252  | 6000             | 4 74             | 416,000  | 440   | 416,000   | 440   | 416,000   | 440   | 416,000   | 440   | 416,000   | 440   | 416,000   | 440   | 414,000   | 440   |
| 263  | 6250             | 5 14             | 436,000  | 500   | 436,000   | 500   | 436,000   | 500   | 436,000   | 500   | 436,000   | 500   | 436,000   | 500   | 431,000   | 490   |
| 273  | 6500             | 5 56             | 451,000  | 560   | 451,000   | 560   | 451,000   | 560   | 451,000   | 560   | 451,000   | 560   | 451,000   | 560   | 452,000   | 560   |
| 284  | 6750             | 5 99             | 466,000  | 630   | 466,000   | 630   | 466,000   | 630   | 466,000   | 630   | 466,000   | 630   | 466,000   | 630   | 470,000   | 630   |
| 294  | 7000             | 6 45             | 486,000  | 700   | 486,000   | 700   | 486,000   | 700   | 486,000   | 700   | 486,000   | 700   | 486,000   | 700   | 486,000   | 700   |
| 315  | 7500             | 7 40             | 522,000  | 860   | 522,000   | 860   | 522,000   | 860   | 522,000   | 860   | 522,000   | 860   | 522,000   | 860   | 522,000   | 860   |
| 336  | 8000             | 8 11             | 556,000  | 1040  | 556,000   | 1040  | 556,000   | 1040  | 556,000   | 1040  | 556,000   | 1040  | 556,000   | 1040  | 556,000   | 1040  |
| 357  | 8500             | 9 50             | 594,000  | 1280  | 594,000   | 1280  | 594,000   | 1280  | 594,000   | 1280  | 594,000   | 1280  | 594,000   | 1280  | 594,000   | 1280  |
| 126  | 3000             | 1 19             | 84,800   | 23    |   |       |   |       |   |       |   |       |   |       |   |       |
| 134  | 3200             | 1 35             | 153,000  | 46    | 15,200  | 14    |   |       |   |       |   |       |   |       |   |       |
| 143  | 3400             | 1 52             | 180,000  | 62    | 134,000   | 46    |   |       |   |       |   |       |   |       |   |       |
| 151  | 3600             | 1 71             | 204,000  | 78    | 174,000   | 66    | 37,000  | 23    |   |       |   |       |   |       |   |       |
| 160  | 3800             | 1 90             | 226,000  | 96    | 202,000   | 86    | 166,000   | 70    | 20,000  | 24    |   |       |   |       |   |       |
| 168  | 4000             | 2 11             | 246,000  | 115   | 226,000   | 110   | 199,000   | 98    | 152,000   | 72    |   |       |   |       |   |       |
| 176  | 4200             | 2 32             | 264,000  | 140   | 248,000   | 130   | 226,000   | 115   | 196,000   | 100   | 57,600  | 39    |   |       |   |       |
| 185  | 4400             | 2 55             | 282,000  | 165   | 266,000   | 150   | 248,000   | 145   | 226,000   | 130   | 191,000   | 105   |   |       |   |       |
| 193  | 4600             | 2 78             | 298,000  | 190   | 286,000   | 180   | 270,000   | 170   | 252,000   | 155   | 230,000   | 115   | 36,000  | 46    |   |       |
| 202  | 4800             | 3 03             | 314,000  | 210   | 304,000   | 210   | 290,000   | 200   | 274,000   | 190   | 254,000   | 175   | 188,000   | 130   |   |       |
| 210  | 5000             | 3 29             | 332,000  | 250   | 322,000   | 240   | 310,000   | 230   | 296,000   | 220   | 278,000   | 210   | 232,000   | 170   | 31,600  | 56    |
| 220  | 5250             | 3 63             | 352,000  | 280   | 344,000   | 280   | 332,000   | 270   | 320,000   | 260   | 306,000   | 250   | 270,000   | 220   | 204,000   | 165   |
| 231  | 5500             | 3 98             | 372,000  | 330   | 364,000   | 330   | 354,000   | 320   | 344,000   | 310   | 332,000   | 300   | 300,000   | 270   | 258,000   | 240   |
| 242  | 5750             | 4 35             | 390,000  | 380   | 384,000   | 370   | 376,000   | 370   | 366,000   | 360   | 354,000   | 350   | 330,000   | 320   | 294,000   | 290   |
| 252  | 6000             | 4 74             | 410,000  | 430   | 404,000   | 430   | 396,000   | 420   | 388,000   | 410   | 378,000   | 410   | 356,000   | 380   | 326,000   | 350   |
| 263  | 6250             | 5 14             | 430,000  | 490   | 424,000   | 480   | 416,000   | 480   | 408,000   | 470   | 400,000   | 460   | 380,000   | 440   | 354,000   | 410   |
| 273  | 6500             | 5 56             | 448,000  | 550   | 440,000   | 550   | 436,000   | 540   | 430,000   | 540   | 420,000   | 530   | 404,000   | 510   | 382,000   | 480   |
| 284  | 6750             | 5 99             | 466,000  | 620   | 462,000   | 620   | 456,000   | 610   | 450,000   | 600   | 442,000   | 600   | 426,000   | 580   | 406,000   | 550   |
| 294  | 7000             | 6 45             | 486,000  | 700   | 482,000   | 690   | 476,000   | 690   | 470,000   | 680   | 464,000   | 670   | 448,000   | 650   | 430,000   | 630   |
| 315  | 7500             | 7 40             | 522,000  | 860   | 518,000   | 860   | 514,000   | 860   | 508,000   | 840   | 502,000   | 830   | 492,000   | 820   | 478,000   | 800   |
| 336  | 8000             | 8 11             | 556,000  | 1040  | 552,000   | 1030  | 548,000   | 1030  | 542,000   | 1030  | 536,000   | 1010  | 532,000   | 1000  | 522,000   | 990   |
| 357  | 8500             | 9 50             | 594,000  | 1280  | 590,000   | 1250  | 586,000   | 1240  | 582,000   | 1230  | 578,000   | 1230  | 572,000   | 1220  | 562,000   | 1200  |
| 231  | 5500             | 3 98             | 56,400   | 82    |   |       |   |       |   |       |   |       |   |       |   |       |
| 242  | 5750             | 4 35             | 242,000  | 230   |   |       |   |       |   |       |   |       |   |       |   |       |
| 252  | 6000             | 4 74             | 288,000  | 300   | 11,500  | 150   |   |       |   |       |   |       |   |       |   |       |
| 263  | 6250             | 5 14             | 324,000  | 370   | 278,000   | 320   |   |       |   |       |   |       |   |       |   |       |
| 273  | 6500             | 5 56             | 356,000  | 440   | 322,000   | 400   | 50,400  | 130   |   |       |   |       |   |       |   |       |
| 284  | 6750             | 5 99             | 382,000  | 510   | 351,000   | 470   | 250,000   | 330   |   |       |   |       |   |       |   |       |
| 294  | 7000             | 6 45             | 410,000  | 600   | 386,000   | 550   | 316,000   | 450   | 29,400  | 135   |   |       |   |       |   |       |
| 315  | 7500             | 7 40             | 460,000  | 770   | 442,000   | 740   | 390,000   | 640   | 308,000   | 510   | 23,000  | 165   |   |       |   |       |
| 336  | 8000             | 8 41             | 506,000  | 970   | 490,000   | 940   | 450,000   | 850   | 398,000   | 740   | 304,000   | 570   | 20,600  | 185   |   |       |
| 357  | 8500             | 9 50             | 550,000  | 1180  | 536,000   | 1150  | 504,000   | 1080  | 462,000   | 990   | 412,000   | 870   | 276,000   | 660   | 24,800  | 210   |
| 378  | 9000             | 10 67            | 590,000  | 1420  | 580,000   | 1400  | 552,000   | 1330  | 520,000   | 1260  | 478,000   | 1150  | 424,000   | 1000  | 218,000   | 540   |
| 397  | 9500             | 11 89            | 632,000  | 1690  | 622,000   | 1670  | 600,000   | 1610  | 572,000   | 1540  | 536,000   | 1440  | 498,000   | 1310  | 444,000   | 1170  |
| 420  | 10000            | 13 17            | 672,000  | 1970  | 664,000   | 1960  | 644,000   | 1920  | 620,000   | 1840  | 590,000   | 1760  | 558,000   | 1640  | 516,000   | 1510  |

Double Inlet

## No. 17 Multivane Fan — Design 3

Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.<br>Static Pressure<br>1" Water<br>.0722 ozs. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure<br>1 1/4" Water<br>.145 ozs. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure<br>1 1/2" Water<br>.217 ozs. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure<br>1 3/4" Water<br>.289 ozs. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure<br>2" Water<br>.361 ozs. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure<br>2 1/4" Water<br>.434 ozs. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure<br>2 1/2" Water<br>.506 ozs. per sq. inch | H. P. |
|--------|------------------|------------------|---|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|
| 41     | 1075             | 0 152            | 16,600  | 0 71  |  |       |  |       |  |       |  |       |  |       |  |       |
| 47     | 1200             | 0 189            | 73,000  | 3 1   |  |       |  |       |  |       |  |       |  |       |  |       |
| 55     | 1400             | 0 258            | 98,000  | 5 7   | 2,600  | 1 2   |  |       |  |       |  |       |  |       |  |       |
| 63     | 1600             | 0 337            | 119,000   | 9 0   | 87,600   | 6 5   |  |       |  |       |  |       |  |       |  |       |
| 71     | 1800             | 0 426            | 137,000   | 13    | 117,000  | 11    | 21,200   | 3 3   |  |       |  |       |  |       |  |       |
| 78     | 2000             | 0 526            | 156,000   | 18    | 141,000  | 17    | 111,000  | 13    | 5,940  | 3 3   |  |       |  |       |  |       |
| 86     | 2200             | 0 636            | 171,000   | 25    | 162,000  | 23    | 143,000  | 20    | 111,000  | 16    | 2,040  | 4 0   |  |       |  |       |
| 94     | 2400             | 0 759            | 191,000   | 32    | 181,000  | 31    | 167,000  | 29    | 146,000  | 25    | 109,000  | 18 5  | 1,500  | 5 2   |  |       |
| 102    | 2600             | 0 889            | 208,000   | 41    | 199,000  | 40    | 188,000  | 38    | 173,000  | 35    | 150,000  | 30    | 108,000  | 22    |  |       |
| 110    | 2800             | 1 03             |   |       | 218,000  | 50    | 208,000  | 49    | 196,000  | 46    | 179,000  | 42    | 153,000  | 35    | 109,000  | 27    |
| 118    | 3000             | 1 19             |   |       | 236,000  | 62    | 228,000  | 60    | 218,000  | 58    | 204,000  | 51    | 187,000  | 50    | 166,000  | 41    |
| 126    | 3200             | 1 35             |   |       | 254,000  | 76    | 246,000  | 74    | 238,000  | 72    | 226,000  | 70    | 211,000  | 64    | 197,000  | 60    |
| 133    | 3400             | 1 52             |   |       | 270,000  | 92    | 264,000  | 90    | 256,000  | 88    | 248,000  | 86    | 238,000  | 82    | 224,000  | 76    |
| 141    | 3600             | 1 71             |   |       | 288,000  | 110   | 282,000  | 110   | 276,000  | 105   | 268,000  | 105   | 258,000  | 100   | 248,000  | 96    |
| 149    | 3800             | 1 90             |   |       | 306,000  | 130   | 300,000  | 130   | 294,000  | 125   | 286,000  | 125   | 278,000  | 120   | 270,000  | 115   |
| 157    | 4000             | 2 11             |   |       | 308,000  | 150   | 312,000  | 145   | 312,000  | 145   | 306,000  | 145   | 300,000  | 145   | 290,000  | 140   |
| 165    | 4200             | 2 32             |   |       | 334,000  | 170   | 328,000  | 170   | 328,000  | 170   | 324,000  | 165   | 318,000  | 170   | 310,000  | 165   |
| 173    | 4400             | 2 55             |   |       | 352,000  | 200   | 348,000  | 195   | 348,000  | 195   | 342,000  | 195   | 336,000  | 190   | 330,000  | 190   |
| 181    | 4600             | 2 78             |   |       | 368,000  | 230   | 364,000  | 230   | 364,000  | 230   | 360,000  | 220   | 354,000  | 220   | 350,000  | 220   |
| 188    | 4800             | 3 03             |   |       |  |       | 382,000  | 260   | 378,000  | 260   | 378,000  | 260   | 371,000  | 250   | 368,000  | 250   |
| 196    | 5000             | 3 29             |   |       |  |       | 400,000  | 290   | 396,000  | 290   | 396,000  | 290   | 390,000  | 290   | 386,000  | 280   |
| 206    | 5250             | 3 63             |   |       |  |       | 420,000  | 340   | 418,000  | 340   | 418,000  | 340   | 412,000  | 330   | 408,000  | 330   |
| 216    | 5500             | 3 98             |   |       |  |       |  |       | 438,000  | 390   | 434,000  | 390   | 431,000  | 380   | 430,000  | 380   |
| 226    | 5750             | 4 35             |   |       |  |       |  |       | 460,000  | 450   | 458,000  | 440   | 454,000  | 440   | 454,000  | 440   |
| 235    | 6000             | 4 74             |   |       |  |       |  |       | 482,000  | 510   | 480,000  | 510   | 476,000  | 500   | 476,000  | 500   |
| 245    | 6250             | 5 11             |   |       |  |       |  |       | 500,000  | 570   | 500,000  | 570   | 498,000  | 570   | 498,000  | 570   |
| 255    | 6500             | 5 56             |   |       |  |       |  |       |  |       | 522,000  | 650   | 518,000  | 640   | 518,000  | 640   |
| 265    | 6750             | 5 99             |   |       |  |       |  |       |  |       |  |       | 550,000  | 720   | 550,000  | 720   |
|        |                  |                  |   |       |  |       |  |       |  |       |  |       |  |       |  |       |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure<br>1" Water<br>.578 ozs. per sq. inch                   |       | Static Pressure<br>1 1/4" Water<br>.723 ozs. per sq. inch                  |       | Static Pressure<br>1 1/2" Water<br>.878 ozs. per sq. inch                  |       | Static Pressure<br>1 3/4" Water<br>1.01 ozs. per sq. inch                  |       | Static Pressure<br>2" Water<br>1.16 ozs. per sq. inch                  |       | Static Pressure<br>2 1/4" Water<br>1.45 ozs. per sq. inch                  |       | Static Pressure<br>2 1/2" Water<br>1.73 ozs. per sq. inch                  |       |
| 118    | 3000             | 1 19             | 97,000  | 26    |  |       |  |       |  |       |  |       |  |       |  |       |
| 126    | 3200             | 1 35             | 176,000   | 52    | 17,500   | 16    |  |       |  |       |  |       |  |       |  |       |
| 133    | 3400             | 1 52             | 208,000   | 70    | 155,000  | 52    |  |       |  |       |  |       |  |       |  |       |
| 141    | 3600             | 1 71             | 234,000   | 90    | 200,000  | 76    | 42,400   | 26    |  |       |  |       |  |       |  |       |
| 149    | 3800             | 1 90             | 260,000   | 115   | 232,000  | 98    | 190,000  | 80    | 23,000   | 27    |  |       |  |       |  |       |
| 157    | 4000             | 2 11             | 282,000   | 135   | 258,000  | 125   | 230,000  | 110   | 174,000  | 82    |  |       |  |       |  |       |
| 165    | 4200             | 2 32             | 302,000   | 160   | 284,000  | 150   | 260,000  | 135   | 228,000  | 115   | 66,000   | 46    |  |       |  |       |
| 173    | 4400             | 2 55             | 324,000   | 190   | 306,000  | 175   | 280,000  | 165   | 260,000  | 150   | 220,000  | 120   |  |       |  |       |
| 181    | 4600             | 2 78             | 342,000   | 220   | 328,000  | 210   | 310,000  | 195   | 288,000  | 180   | 264,000  | 165   | 41,400   | 150   |  |       |
| 188    | 4800             | 3 03             | 362,000   | 250   | 348,000  | 240   | 334,000  | 230   | 314,000  | 210   | 292,000  | 195   | 216,000  | 150   |  |       |
| 196    | 5000             | 3 29             | 380,000   | 280   | 370,000  | 290   | 356,000  | 270   | 340,000  | 250   | 320,000  | 240   | 266,000  | 195   | 36,000   | 64    |
| 206    | 5250             | 3 63             | 401,000   | 330   | 394,000  | 320   | 382,000  | 310   | 368,000  | 300   | 350,000  | 290   | 310,000  | 250   | 234,000  | 190   |
| 216    | 5500             | 3 98             | 426,000   | 380   | 418,000  | 370   | 408,000  | 370   | 394,000  | 350   | 380,000  | 340   | 346,000  | 310   | 296,000  | 260   |
| 226    | 5750             | 4 35             | 448,000   | 440   | 440,000  | 430   | 432,000  | 420   | 420,000  | 420   | 408,000  | 400   | 378,000  | 370   | 338,000  | 330   |
| 235    | 6000             | 4 74             | 472,000   | 500   | 464,000  | 490   | 456,000  | 490   | 446,000  | 480   | 434,000  | 470   | 408,000  | 440   | 371,000  | 400   |
| 245    | 6250             | 5 14             | 494,000   | 560   | 488,000  | 560   | 480,000  | 550   | 470,000  | 540   | 460,000  | 530   | 436,000  | 510   | 406,000  | 470   |
| 255    | 6500             | 5 56             | 516,000   | 640   | 508,000  | 630   | 502,000  | 620   | 494,000  | 620   | 484,000  | 610   | 464,000  | 580   | 440,000  | 550   |
| 265    | 6750             | 5 99             | 538,000   | 710   | 532,000  | 710   | 524,000  | 700   | 518,000  | 690   | 508,000  | 690   | 490,000  | 660   | 468,000  | 630   |
| 274    | 7000             | 6 45             | 558,000   | 800   | 554,000  | 790   | 546,000  | 790   | 540,000  | 780   | 532,000  | 770   | 514,000  | 750   | 496,000  | 720   |
| 294    | 7500             | 7 40             | 602,000   | 990   | 596,000  | 990   | 590,000  | 980   | 584,000  | 960   | 578,000  | 960   | 564,000  | 940   | 548,000  | 920   |
| 314    | 8000             | 8 41             | 640,000   | 1190  | 634,000  | 1190  | 634,000  | 1190  | 628,000  | 1180  | 624,000  | 1160  | 610,000  | 1150  | 598,000  | 1140  |
| 333    | 8500             | 9 50             |   |       | 684,000  | 1450  | 678,000  | 1430  | 672,000  | 1420  | 668,000  | 1410  | 656,000  | 1400  | 646,000  | 1380  |
|        |                  |                  |   |       |  |       |  |       |  |       |  |       |  |       |  |       |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure<br>3 1/2" Water<br>2.02 ozs. per sq. inch               |       | Static Pressure<br>4" Water<br>2.31 ozs. per sq. inch                      |       | Static Pressure<br>5" Water<br>2.89 ozs. per sq. inch                      |       | Static Pressure<br>6" Water<br>3.47 ozs. per sq. inch                      |       | Static Pressure<br>7" Water<br>4.05 ozs. per sq. inch                  |       | Static Pressure<br>8" Water<br>4.63 ozs. per sq. inch                      |       | Static Pressure<br>9" Water<br>5.2 ozs. per sq. inch                       |       |
| 216    | 5500             | 3 98             | 61,800  | 94    |  |       |  |       |  |       |  |       |  |       |  |       |
| 226    | 5750             | 4 35             | 278,000   | 270   |  |       |  |       |  |       |  |       |  |       |  |       |
| 235    | 6000             | 4 74             | 330,000   | 350   | 167,000  | 170   |  |       |  |       |  |       |  |       |  |       |
| 245    | 6250             | 5 14             | 372,000   | 420   | 320,000  | 370   |  |       |  |       |  |       |  |       |  |       |
| 255    | 6500             | 5 56             | 408,000   | 510   | 370,000  | 460   | 57,800   | 150   |  |       |  |       |  |       |  |       |
| 265    | 6750             | 5 99             | 440,000   | 590   | 406,000  | 540   | 288,000  | 380   |  |       |  |       |  |       |  |       |
| 274    | 7000             | 6 45             | 472,000   | 690   | 442,000  | 640   | 384,000  | 520   | 33,800   | 160   |  |       |  |       |  |       |
| 294    | 7500             | 7 40             | 528,000   | 880   | 506,000  | 840   | 448,000  | 740   | 354,000  | 590   | 26,400   | 190   |  |       |  |       |
| 314    | 8000             | 8 41             | 582,000   | 1110  | 564,000  | 1070  | 518,000  | 980   | 458,000  | 850   | 348,000  | 660   | 23,800   | 210   |  |       |
| 333    | 8500             | 9 50             | 630,000   | 1360  | 616,000  | 1320  | 580,000  | 1240  | 530,000  | 1340  | 472,000  | 1000  | 318,000  | 760   | 28,400   | 280   |
| 353    | 9000             | 10 67            | 678,000   | 1620  | 666,000  | 1610  | 636,000  | 1530  | 598,000  | 1450  | 550,000  | 1320  | 480,000  | 1150  | 250,000  | 620   |
| 372    | 9500             | 11 89            | 726,000   | 1940  | 714,000  | 1920  | 688,000  | 1850  | 656,000  | 1760  | 616,000  | 1650  | 570,000  | 1510  | 510,000  | 1350  |
| 392    | 10000            | 13 17            | 772,000   | 2260  | 762,000  | 2240  | 740,000  | 2200  | 712,000  | 2120  | 678,000  | 2020  | 640,000  | 1890  | 592,000  | 1740  |

Double Inlet

## No. 18 Multivane Fan—Design 3

Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.                                       | H. P.   | Volume C.F.M.                                       | H. P.   | Volume C.F.M.                                       | H. P.   | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                   | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                   | H. P. |
|--------|------------------|------------------|---|---|---|---|---|---|---|-------|---|-------|---|-------|---|-------|
|        |                  |                  | Static Pressure 1" Water .0722 ozs. per sq. inch    |   | Static Pressure 1 1/2" Water .145 ozs. per sq. inch |   | Static Pressure 2" Water .217 ozs. per sq. inch     |   | Static Pressure 2 1/2" Water .289 ozs. per sq. inch |       | Static Pressure 3" Water .361 ozs. per sq. inch |       | Static Pressure 3 1/2" Water .434 ozs. per sq. inch |       | Static Pressure 4" Water .506 ozs. per sq. inch |       |
| 39     | 1075             | 0 152            | 18,800  | 0 8   |   |   |   |   |   |       |   |       |   |       |   |       |
| 44     | 1200             | 0 189            | 83,000  | 3 5   |   |   |   |   |   |       |   |       |   |       |   |       |
| 52     | 1400             | 0 258            | 111,000   | 6 5   | 2,960   | 1 35  |   |   |   |       |   |       |   |       |   |       |
| 59     | 1600             | 0 347            | 135,000   | 10  | 99,600  | 7 1   |   |   |   |       |   |       |   |       |   |       |
| 66     | 1800             | 0 426            | 156,000   | 15  | 133,000   | 13  | 21,200  | 3 7   |   |       |   |       |   |       |   |       |
| 74     | 2000             | 0 526            | 177,000   | 21  | 160,000   | 19  | 130,000   | 15  | 6,760   | 3 8   |   |       |   |       |   |       |
| 81     | 2200             | 0 636            | 197,000   | 28  | 181,000   | 26  | 163,000   | 23  | 127,000   | 18    | 2,320   | 4 6   |   |       |   |       |
| 88     | 2400             | 0 759            | 218,000   | 37  | 206,000   | 35  | 190,000   | 33  | 166,000   | 28    | 124,000   | 21    | 1,770   | 6     |   |       |
| 96     | 2600             | 0 889            | 236,000   | 47  | 226,000   | 45  | 214,000   | 43  | 196,000   | 39    | 161,000   | 31    | 121,000   | 25    |   |       |
| 103    | 2800             | 1 03             |   |   | 248,000   | 56  | 236,000   | 56  | 224,000   | 52    | 201,000   | 47    | 174,000   | 40    | 123,000   | 31    |
| 110    | 3000             | 1 19             |   |   | 268,000   | 70  | 260,000   | 70  | 248,000   | 66    | 232,000   | 62    | 214,000   | 56    | 188,000   | 50    |
| 118    | 3200             | 1 35             |   |   | 288,000   | 85  | 280,000   | 84  | 276,000   | 82    | 258,000   | 78    | 242,000   | 71    | 221,000   | 68    |
| 125    | 3400             | 1 52             |   |   | 308,000   | 105   | 300,000   | 100   | 292,000   | 100   | 282,000   | 100   | 270,000   | 92    | 251,000   | 86    |
| 133    | 3600             | 1 71             |   |   | 328,000   | 125   | 320,000   | 120   | 314,000   | 120   | 306,000   | 115   | 291,000   | 110   | 282,000   | 110   |
| 140    | 3800             | 1 90             |   |   | 348,000   | 150   | 340,000   | 145   | 331,000   | 140   | 326,000   | 140   | 318,000   | 135   | 306,000   | 130   |
| 147    | 4000             | 2 11             |   |   |   |   | 360,000   | 170   | 354,000   | 165   | 348,000   | 165   | 340,000   | 160   | 330,400   | 155   |
| 154    | 4200             | 2 32             |   |   |   |   | 380,000   | 195   | 374,000   | 190   | 368,000   | 190   | 362,000   | 190   | 351,000   | 185   |
| 162    | 4400             | 2 55             |   |   |   |   | 400,000   | 230   | 396,000   | 220   | 390,000   | 220   | 382,000   | 220   | 376,000   | 220   |
| 169    | 4600             | 2 78             |   |   |   |   | 420,000   | 260   | 416,000   | 260   | 410,000   | 250   | 401,000   | 250   | 398,000   | 250   |
| 176    | 4800             | 3 03             |   |   |   |   |   |   | 436,000   | 290   | 430,000   | 290   | 424,000   | 290   | 418,000   | 280   |
| 184    | 5000             | 3 29             |   |   |   |   |   |   | 456,000   | 330   | 450,000   | 330   | 444,000   | 320   | 440,000   | 320   |
| 193    | 5250             | 3 63             |   |   |   |   |   |   | 480,000   | 390   | 476,000   | 380   | 470,000   | 380   | 464,000   | 380   |
| 202    | 5500             | 3 98             |   |   |   |   |   |   |   |       | 500,000   | 440   | 494,000   | 440   | 490,000   | 430   |
| 212    | 5750             | 4 35             |   |   |   |   |   |   |   |       | 524,000   | 510   | 520,000   | 500   | 516,000   | 500   |
| 221    | 6000             | 4 74             |   |   |   |   |   |   |   |       | 548,000   | 580   | 544,000   | 580   | 540,000   | 570   |
| 230    | 6250             | 5 14             |   |   |   |   |   |   |   |       |   |       | 568,000   | 650   | 566,000   | 650   |
| 239    | 6500             | 5 56             |   |   |   |   |   |   |   |       |   |       | 591,000   | 740   | 590,000   | 730   |
| 248    | 6750             | 5 99             |   |   |   |   |   |   |   |       |   |       | 614,000   | 820   | 614,000   | 820   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 ozs. per sq. inch     | Static Pressure 1 1/2" Water .723 ozs. per sq. inch | Static Pressure 2" Water .878 ozs. per sq. inch     | Static Pressure 2 1/2" Water 1.01 ozs. per sq. inch | Static Pressure 3" Water 1.16 ozs. per sq. inch     | Static Pressure 3 1/2" Water 1.45 ozs. per sq. inch | Static Pressure 4" Water 1.73 ozs. per sq. inch     |       |   |       |   |       |   |       |
| 110    | 3000             | 1 19             | 111,000   | 30  |   |   |   |   |   |       |   |       |   |       |   |       |
| 118    | 3200             | 1 35             | 200,000   | 60  | 19,900  | 18  |   |   |   |       |   |       |   |       |   |       |
| 125    | 3400             | 1 52             | 236,000   | 80  | 176,000   | 60  |   |   |   |       |   |       |   |       |   |       |
| 132    | 3600             | 1 71             | 266,000   | 100   | 228,000   | 86  | 48,200  | 30  |   |       |   |       |   |       |   |       |
| 140    | 3800             | 1 90             | 294,000   | 130   | 264,000   | 110   | 216,000   | 92  | 26,000  | 31    |   |       |   |       |   |       |
| 147    | 4000             | 2 11             | 320,000   | 150   | 294,000   | 140   | 260,000   | 125   | 198,000   | 94    |   |       |   |       |   |       |
| 154    | 4200             | 2 32             | 344,000   | 180   | 324,000   | 170   | 296,000   | 150   | 258,000   | 130   | 75,200  | 52    |   |       |   |       |
| 162    | 4400             | 2 55             | 368,000   | 210   | 348,000   | 200   | 326,000   | 190   | 296,000   | 170   | 250,000   | 135   |   |       |   |       |
| 169    | 4600             | 2 78             | 370,000   | 240   | 374,000   | 230   | 354,000   | 220   | 328,000   | 210   | 300,000   | 185   | 47,200  | 60    |   |       |
| 176    | 4800             | 3 03             | 412,000   | 280   | 396,000   | 270   | 380,000   | 260   | 358,000   | 240   | 332,000   | 220   | 246,000   | 170   |   |       |
| 184    | 5000             | 3 29             | 434,000   | 320   | 420,000   | 310   | 406,000   | 300   | 386,000   | 260   | 364,000   | 270   | 302,000   | 220   | 41,200  | 74    |
| 193    | 5250             | 3 63             | 460,000   | 370   | 484,000   | 370   | 434,000   | 360   | 420,000   | 340   | 400,000   | 330   | 352,000   | 280   | 266,000   | 220   |
| 202    | 5500             | 3 98             | 486,000   | 430   | 474,000   | 420   | 464,000   | 420   | 448,000   | 400   | 432,000   | 390   | 392,000   | 350   | 336,000   | 300   |
| 212    | 5750             | 4 35             | 510,000   | 500   | 502,000   | 490   | 490,000   | 480   | 478,000   | 470   | 464,000   | 460   | 432,000   | 420   | 386,000   | 370   |
| 221    | 6000             | 4 74             | 536,000   | 560   | 538,000   | 560   | 518,000   | 550   | 506,000   | 540   | 494,000   | 530   | 461,000   | 500   | 426,000   | 450   |
| 230    | 6250             | 5 14             | 562,000   | 640   | 554,000   | 630   | 544,000   | 630   | 534,000   | 620   | 522,000   | 610   | 496,000   | 580   | 464,000   | 510   |
| 239    | 6500             | 5 56             | 586,000   | 720   | 576,000   | 720   | 570,000   | 710   | 562,000   | 700   | 550,000   | 690   | 528,000   | 660   | 500,000   | 630   |
| 248    | 6750             | 5 99             | 610,000   | 810   | 604,000   | 810   | 578,000   | 800   | 588,000   | 790   | 580,000   | 780   | 558,000   | 760   | 532,000   | 720   |
| 257    | 7000             | 6 45             | 636,000   | 910   | 628,000   | 900   | 620,000   | 900   | 614,000   | 880   | 606,000   | 870   | 586,000   | 850   | 564,000   | 820   |
| 276    | 7500             | 7 40             | 684,000   | 1130  | 678,000   | 1120  | 672,000   | 1110  | 664,000   | 1090  | 658,000   | 1090  | 642,000   | 1070  | 624,000   | 1040  |
| 294    | 8000             | 8 41             |   |   | 726,000   | 1360  | 722,000   | 1350  | 716,000   | 1340  | 710,000   | 1320  | 694,000   | 1310  | 680,000   | 1300  |
| 312    | 8500             | 9 50             |   |   | 776,000   | 1650  | 770,000   | 1630  | 764,000   | 1620  | 760,000   | 1600  | 746,000   | 1590  | 736,000   | 1570  |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 3 1/2" Water 2.02 ozs. per sq. inch | Static Pressure 4" Water 2.31 ozs. per sq. inch     | Static Pressure 4 1/2" Water 2.59 ozs. per sq. inch | Static Pressure 5" Water 3.47 ozs. per sq. inch     | Static Pressure 5 1/2" Water 4.05 ozs. per sq. inch | Static Pressure 6" Water 4.63 ozs. per sq. inch     | Static Pressure 6 1/2" Water 5.2 ozs. per sq. inch  |       |   |       |   |       |   |       |
| 202    | 5500             | 3 98             | 73,800  | 110   |   |   |   |   |   |       |   |       |   |       |   |       |
| 212    | 5750             | 4 35             | 316,000   | 310   |   |   |   |   |   |       |   |       |   |       |   |       |
| 221    | 6000             | 4 74             | 376,000   | 390   | 190,000   | 190   |   |   |   |       |   |       |   |       |   |       |
| 230    | 6250             | 5 14             | 422,000   | 480   | 364,000   | 420   |   |   |   |       |   |       |   |       |   |       |
| 239    | 6500             | 5 56             | 464,000   | 580   | 420,000   | 520   | 65,800  | 170   |   |       |   |       |   |       |   |       |
| 248    | 6750             | 5 99             | 500,000   | 670   | 464,000   | 620   | 328,000   | 430   |   |       |   |       |   |       |   |       |
| 257    | 7000             | 6 45             | 536,000   | 780   | 504,000   | 720   | 412,000   | 590   | 38,400  | 180   |   |       |   |       |   |       |
| 276    | 7500             | 7 40             | 602,000   | 1010  | 576,000   | 960   | 510,000   | 840   | 404,000   | 670   | 300,000   | 210   |   |       |   |       |
| 294    | 8000             | 8 41             | 660,000   | 1260  | 640,000   | 1220  | 590,000   | 1110  | 520,000   | 970   | 396,000   | 750   | 27,000  | 240   |   |       |
| 312    | 8500             | 9 50             | 718,000   | 1550  | 700,000   | 1510  | 660,000   | 1410  | 602,000   | 1290  | 538,000   | 1140  | 362,000   | 860   | 32,400  | 310   |
| 331    | 9000             | 10 67            | 770,000   | 1850  | 758,000   | 1830  | 722,000   | 1740  | 680,000   | 1650  | 624,000   | 1500  | 554,000   | 1310  | 286,000   | 710   |
| 349    | 9500             | 11 89            | 824,000   | 2200  | 812,000   | 2180  | 784,000   | 2100  | 746,000   | 2000  | 702,000   | 1880  | 648,000   | 1720  | 580,000   | 1530  |
| 368    | 10000            | 13 17            | 878,000   | 2590  | 866,000   | 2560  | 842,000   | 2500  | 810,000   | 2400  | 772,000   | 2300  | 728,000   | 2140  | 674,000   | 1970  |

Double Inlet

## No. 20 Multivane Fan—Design 3

Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.                                       | H.P. | Volume C.F.M.                                       | H.P. | Volume C.F.M.                                       | H.P. | Volume C.F.M.                                       | H.P. | Volume C.F.M.                                     | H.P. | Volume C.F.M.                                       | H.P. | Volume C.F.M.                                     | H.P. |
|--------|------------------|------------------|---|------|---|------|---|------|---|------|---|------|---|------|---|------|
|        |                  |                  | Static Pressure 1/4" Water .0722 ozs. per sq. inch  |      | Static Pressure 1/4" Water .145 ozs. per sq. inch   |      | Static Pressure 1/4" Water .217 ozs. per sq. inch   |      | Static Pressure 1/4" Water .289 ozs. per sq. inch   |      | Static Pressure 1/4" Water .361 ozs. per sq. inch |      | Static Pressure 1/4" Water .434 ozs. per sq. inch   |      | Static Pressure 1/4" Water .506 ozs. per sq. inch |      |
| 31     | 1075             | 0 152            | 23,800  | 1 0  |   |      |   |      |   |      |   |      |   |      |   |      |
| 39     | 1200             | 0 189            | 105,000   | 4 4  |   |      |   |      |   |      |   |      |   |      |   |      |
| 46     | 1400             | 0 258            | 141,000   | 8 2  | 3,740   | 2    |   |      |   |      |   |      |   |      |   |      |
| 52     | 1600             | 0 337            | 171,000   | 13   | 126,000   | 9    |   |      |   |      |   |      |   |      |   |      |
| 59     | 1800             | 0 426            | 198,000   | 19   | 168,000   | 16   | 30,600  | 5    |   |      |   |      |   |      |   |      |
| 65     | 2000             | 0 526            | 221,000   | 26   | 202,000   | 21   | 165,000   | 15   | 8,540   | 5    |   |      |   |      |   |      |
| 72     | 2200             | 0 636            | 250,000   | 35   | 232,000   | 31   | 206,000   | 29   | 160,000   | 23   | 2,940   | 6    |   |      |   |      |
| 78     | 2400             | 0 759            | 276,000   | 46   | 260,000   | 41   | 240,000   | 41   | 210,000   | 36   | 157,000   | 27   | 2,240   | 8    |   |      |
| 85     | 2600             | 0 889            | 300,000   | 58   | 286,000   | 58   | 272,000   | 51   | 248,000   | 50   | 216,000   | 43   | 155,000   | 32   |   |      |
| 92     | 2800             | 1 03             | 314,000   | 72   | 300,000   | 70   | 300,000   | 70   | 282,000   | 66   | 258,000   | 60   | 220,000   | 50   | 156,000   | 40   |
| 98     | 3000             | 1 19             | 340,000   | 90   | 340,000   | 90   | 328,000   | 88   | 312,000   | 84   | 294,000   | 78   | 270,000   | 72   | 238,000   | 62   |
| 105    | 3200             | 1 35             | 364,000   | 110  | 364,000   | 110  | 354,000   | 110  | 342,000   | 105  | 326,000   | 100  | 308,000   | 94   | 284,000   | 86   |
| 111    | 3400             | 1 52             |   |      | 390,000   | 130  | 380,000   | 130  | 370,000   | 130  | 356,000   | 125  | 342,000   | 115  | 322,000   | 110  |
| 118    | 3600             | 1 71             |   |      | 414,000   | 160  | 406,000   | 150  | 396,000   | 150  | 386,000   | 150  | 372,000   | 145  | 354,000   | 135  |
| 124    | 3800             | 1 90             |   |      | 440,000   | 190  | 432,000   | 185  | 422,000   | 180  | 412,000   | 175  | 402,000   | 170  | 388,000   | 170  |
| 131    | 4000             | 2 11             |   |      |   |      | 456,000   | 210  | 448,000   | 210  | 440,000   | 210  | 430,000   | 200  | 420,000   | 200  |
| 137    | 4200             | 2 32             |   |      |   |      | 482,000   | 250  | 472,000   | 240  | 466,000   | 240  | 458,000   | 240  | 448,000   | 240  |
| 144    | 4400             | 2 55             |   |      |   |      | 506,000   | 290  | 500,000   | 280  | 492,000   | 280  | 484,000   | 280  | 476,000   | 270  |
| 150    | 4600             | 2 78             |   |      |   |      | 530,000   | 330  | 524,000   | 330  | 518,000   | 330  | 510,000   | 320  | 502,000   | 310  |
| 157    | 4800             | 3 03             |   |      |   |      |   |      | 550,000   | 370  | 544,000   | 370  | 538,000   | 360  | 530,000   | 360  |
| 163    | 5000             | 3 29             |   |      |   |      |   |      | 576,000   | 420  | 568,000   | 420  | 562,000   | 410  | 556,000   | 410  |
| 172    | 5250             | 3 63             |   |      |   |      |   |      | 606,000   | 490  | 600,000   | 480  | 594,000   | 480  | 588,000   | 470  |
| 180    | 5500             | 3 98             |   |      |   |      |   |      |   |      | 632,000   | 560  | 624,000   | 550  | 620,000   | 550  |
| 188    | 5750             | 4 35             |   |      |   |      |   |      |   |      | 662,000   | 640  | 658,000   | 640  | 652,000   | 630  |
| 196    | 6000             | 4 74             |   |      |   |      |   |      |   |      | 692,000   | 740  | 690,000   | 730  | 684,000   | 720  |
| 204    | 6250             | 5 14             |   |      |   |      |   |      |   |      |   |      | 720,000   | 820  | 716,000   | 820  |
| 212    | 6500             | 5 56             |   |      |   |      |   |      |   |      |   |      | 750,000   | 930  | 746,000   | 920  |
| 222    | 6750             | 5 99             |   |      |   |      |   |      |   |      |   |      |   |      | 778,000   | 1010 |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 ozs. per sq. inch     |      | Static Pressure 1 1/4" Water .723 ozs. per sq. inch |      | Static Pressure 1 1/2" Water .878 ozs. per sq. inch |      | Static Pressure 1 3/4" Water 1.01 ozs. per sq. inch |      | Static Pressure 2" Water 1.16 ozs. per sq. inch   |      | Static Pressure 2 1/2" Water 1.45 ozs. per sq. inch |      | Static Pressure 3" Water 1.73 ozs. per sq. inch   |      |
| 98     | 3000             | 1 19             | 140,000   | 38   |   |      |   |      |   |      |   |      |   |      |   |      |
| 105    | 3200             | 1 35             | 252,000   | 76   | 25,200  | 23   |   |      |   |      |   |      |   |      |   |      |
| 111    | 3400             | 1 52             | 298,000   | 100  | 222,000   | 76   |   |      |   |      |   |      |   |      |   |      |
| 118    | 3600             | 1 71             | 336,000   | 130  | 288,000   | 110  | 61,000  | 38   |   |      |   |      |   |      |   |      |
| 124    | 3800             | 1 90             | 374,000   | 160  | 334,000   | 140  | 274,000   | 115  | 33,000  | 39   |   |      |   |      |   |      |
| 131    | 4000             | 2 11             | 403,000   | 190  | 372,000   | 175  | 330,000   | 155  | 252,000   | 120  |   |      |   |      |   |      |
| 137    | 4200             | 2 32             | 436,000   | 230  | 408,000   | 210  | 374,000   | 200  | 324,000   | 170  | 95,200  | 64   |   |      |   |      |
| 144    | 4400             | 2 55             | 466,000   | 270  | 440,000   | 250  | 412,000   | 240  | 376,000   | 210  | 316,000   | 170  |   |      |   |      |
| 150    | 4600             | 2 78             | 492,000   | 310  | 472,000   | 300  | 448,000   | 280  | 416,000   | 260  | 380,000   | 240  | 59,000  | 76   |   |      |
| 157    | 4800             | 3 03             | 520,000   | 360  | 502,000   | 340  | 480,000   | 330  | 452,000   | 310  | 420,000   | 280  | 312,000   | 210  |   |      |
| 163    | 5000             | 3 29             | 548,000   | 410  | 532,000   | 400  | 512,000   | 380  | 488,000   | 360  | 460,000   | 340  | 384,000   | 280  | 52,000  | 92   |
| 172    | 5250             | 3 63             | 580,000   | 470  | 568,000   | 460  | 548,000   | 450  | 530,000   | 440  | 504,000   | 410  | 446,000   | 360  | 338,000   | 270  |
| 180    | 5500             | 3 98             | 614,000   | 540  | 602,000   | 540  | 586,000   | 530  | 568,000   | 510  | 548,000   | 490  | 496,000   | 410  | 426,000   | 380  |
| 188    | 5750             | 4 35             | 644,000   | 630  | 634,000   | 620  | 620,000   | 610  | 606,000   | 600  | 586,000   | 580  | 544,000   | 530  | 488,000   | 470  |
| 196    | 6000             | 4 74             | 680,000   | 710  | 668,000   | 700  | 656,000   | 700  | 642,000   | 680  | 624,000   | 670  | 588,000   | 630  | 510,000   | 570  |
| 204    | 6250             | 5 14             | 712,000   | 810  | 702,000   | 800  | 690,000   | 790  | 676,000   | 780  | 660,000   | 770  | 628,000   | 730  | 586,000   | 680  |
| 212    | 6500             | 5 56             | 742,000   | 910  | 730,000   | 900  | 722,000   | 900  | 710,000   | 890  | 696,000   | 880  | 668,000   | 820  | 632,000   | 790  |
| 222    | 6750             | 5 99             | 774,000   | 1030 | 764,000   | 1020 | 754,000   | 1010 | 744,000   | 1000 | 734,000   | 990  | 706,000   | 950  | 672,000   | 910  |
| 229    | 7000             | 6 45             | 804,000   | 1150 | 796,000   | 1140 | 786,000   | 1130 | 778,000   | 1120 | 766,000   | 1110 | 742,000   | 1080 | 712,000   | 1040 |
| 245    | 7500             | 7 40             | 864,000   | 1430 | 860,000   | 1420 | 850,000   | 1410 | 840,000   | 1380 | 832,000   | 1380 | 812,000   | 1360 | 790,000   | 1320 |
| 262    | 8000             | 8 41             |   |      | 920,000   | 1720 | 912,000   | 1710 | 906,000   | 1700 | 898,000   | 1680 | 880,000   | 1660 | 862,000   | 1640 |
| 278    | 8500             | 9 50             |   |      | 984,000   | 2100 | 976,000   | 2060 | 968,000   | 2060 | 962,000   | 2040 | 944,000   | 2020 | 930,000   | 1980 |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 3 1/2" Water 2.02 ozs. per sq. inch |      | Static Pressure 4" Water 2.31 ozs. per sq. inch     |      | Static Pressure 5" Water 2.89 ozs. per sq. inch     |      | Static Pressure 6" Water 3.47 ozs. per sq. inch     |      | Static Pressure 7" Water 4.05 ozs. per sq. inch   |      | Static Pressure 8" Water 4.63 ozs. per sq. inch     |      | Static Pressure 9" Water 5.2 ozs. per sq. inch    |      |
| 180    | 5500             | 3 98             | 93,200  | 135  |   |      |   |      |   |      |   |      |   |      |   |      |
| 188    | 5750             | 4 35             | 400,000   | 390  |   |      |   |      |   |      |   |      |   |      |   |      |
| 196    | 6000             | 4 74             | 476,000   | 500  | 240,000   | 240  |   |      |   |      |   |      |   |      |   |      |
| 204    | 6250             | 5 14             | 534,000   | 610  | 460,000   | 530  |   |      |   |      |   |      |   |      |   |      |
| 212    | 6500             | 5 56             | 588,000   | 730  | 532,000   | 660  | 83,200  | 210  |   |      |   |      |   |      |   |      |
| 222    | 6750             | 5 99             | 632,000   | 850  | 586,000   | 780  | 414,000   | 550  |   |      |   |      |   |      |   |      |
| 229    | 7000             | 6 45             | 678,000   | 990  | 638,000   | 920  | 522,000   | 750  | 48,600  | 230  |   |      |   |      |   |      |
| 245    | 7500             | 7 40             | 762,000   | 1270 | 730,000   | 1220 | 644,000   | 1060 | 510,000   | 810  | 38,000  | 270  |   |      |   |      |
| 262    | 8000             | 8 41             | 836,000   | 1600 | 810,000   | 1550 | 746,000   | 1410 | 658,000   | 1230 | 502,000   | 950  | 34,200  | 300  |   |      |
| 278    | 8500             | 9 50             | 886,000   | 1960 | 866,000   | 1910 | 834,000   | 1790 | 762,000   | 1640 | 680,000   | 1440 | 456,000   | 1090 | 40,800  | 400  |
| 294    | 9000             | 10 67            | 974,000   | 2340 | 960,000   | 2320 | 944,000   | 2200 | 860,000   | 2080 | 790,000   | 1900 | 700,000   | 1690 | 360,000   | 900  |
| 310    | 9500             | 11 89            | 1,044,000   | 2800 | 1,030,000   | 2760 | 990,000   | 2660 | 944,000   | 2540 | 888,000   | 2380 | 820,000   | 2180 | 732,000   | 1940 |
| 327    | 10000            | 13 17            | 1,110,000   | 3260 | 1,096,000   | 3240 | 1,064,000   | 3160 | 1,024,000   | 3040 | 976,000   | 2820 | 920,000   | 2720 | 852,000   | 2500 |

Double Inlet

## No. 22 Multivane Fan—Design 3

Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed<br>F.P.M. | S.N.D.<br>in<br>inches | Volume<br>C.F.M.<br>Static Pressure<br>1" Water<br>.5722 ozs. per<br>sq. inch | H. P. | Volume<br>C.F.M.<br>Static Pressure<br>1 1/4" Water<br>.145 ozs. per<br>sq. inch | H. P. | Volume<br>C.F.M.<br>Static Pressure<br>1 1/2" Water<br>.217 ozs. per<br>sq. inch | H. P. | Volume<br>C.F.M.<br>Static Pressure<br>1 3/4" Water<br>.289 ozs. per<br>sq. inch | H. P. | Volume<br>C.F.M.<br>Static Pressure<br>2" Water<br>.361 ozs. per<br>sq. inch | H. P. | Volume<br>C.F.M.<br>Static Pressure<br>2 1/4" Water<br>.434 ozs. per<br>sq. inch | H. P.   | Volume<br>C.F.M.<br>Static Pressure<br>2 1/2" Water<br>.508 ozs. per<br>sq. inch | H. P.   |     |
|--------|---------------------|------------------------|---|-------|--|-------|--|-------|--|-------|--|-------|--|---------|--|---------|-----|
| 31     | 1075                | 0 152                  | 29,100  | 1 3   |  |       |  |       |  |       |  |       |  |         |  |         |     |
| 35     | 1200                | 0 189                  | 130,000   | 5 5   |  |       |  |       |  |       |  |       |  |         |  |         |     |
| 41     | 1400                | 0 258                  | 171,000   | 10    | 1,600  |       |  |       |  |       |  |       |  |         |  |         |     |
| 47     | 1600                | 0 337                  | 212,000   | 16    | 156,000  | 2     |  |       |  |       |  |       |  |         |  |         |     |
| 53     | 1800                | 0 426                  | 244,000   | 23    | 228,000  | 20    | 37,600   | 6     |  |       |  |       |  |         |  |         |     |
| 59     | 2000                | 0 526                  | 278,000   | 32    | 250,000  | 30    | 201,000  | 24    | 10,600   | 6     |  |       |  |         |  |         |     |
| 65     | 2200                | 0 636                  | 308,000   | 41    | 288,000  | 41    | 254,000  | 36    | 198,000  | 28    | 3,600  | 7     |  |         |  |         |     |
| 71     | 2400                | 0 759                  | 340,000   | 58    | 322,000  | 54    | 296,000  | 50    | 260,000  | 44    | 193,000  | 33    | 2,800  | 9       |  |         |     |
| 77     | 2600                | 0 889                  | 370,000   | 72    | 351,000  | 70    | 334,000  | 68    | 306,000  | 62    | 268,000  | 52    | 191,000  | 39      |  |         |     |
| 82     | 2800                | 1 03                   |   |       | 388,000  | 90    | 370,000  | 86    | 348,000  | 82    | 320,000  | 74    | 272,000  | 62      | 193,000  | 49      |     |
| 88     | 3000                | 1 19                   |   |       | 420,000  | 120   | 404,000  | 110   | 386,000  | 105   | 362,000  | 98    | 332,000  | 88      | 291,000  | 78      |     |
| 94     | 3200                | 1 35                   |   |       | 450,000  | 130   | 438,000  | 130   | 422,000  | 130   | 402,000  | 125   | 380,000  | 115     | 350,000  | 110     |     |
| 100    | 3400                | 1 52                   |   |       | 482,000  | 165   | 470,000  | 160   | 456,000  | 155   | 440,000  | 155   | 422,000  | 145     | 398,000  | 135     |     |
| 106    | 3600                | 1 71                   |   |       | 512,000  | 195   | 500,000  | 190   | 490,000  | 190   | 476,000  | 185   | 458,000  | 175     | 440,000  | 170     |     |
| 112    | 3800                | 1 90                   |   |       | 542,000  | 230   | 532,000  | 230   | 522,000  | 220   | 510,000  | 220   | 496,000  | 210     | 478,000  | 210     |     |
| 118    | 4000                | 2 11                   |   |       |  |       | 564,000  | 260   | 554,000  | 260   | 542,000  | 260   | 532,000  | 250     | 516,000  | 250     |     |
| 124    | 4200                | 2 32                   |   |       |  |       | 596,000  | 310   | 584,000  | 300   | 576,000  | 300   | 566,000  | 300     | 552,000  | 290     |     |
| 129    | 4400                | 2 55                   |   |       |  |       | 626,000  | 360   | 618,000  | 350   | 608,000  | 350   | 598,000  | 340     | 588,000  | 340     |     |
| 135    | 4600                | 2 78                   |   |       |  |       | 656,000  | 410   | 648,000  | 400   | 640,000  | 400   | 630,000  | 390     | 620,000  | 390     |     |
| 141    | 4800                | 3 03                   |   |       |  |       |  |       | 680,000  | 470   | 672,000  | 450   | 664,000  | 450     | 654,000  | 440     |     |
| 147    | 5000                | 3 29                   |   |       |  |       |  |       | 710,000  | 520   | 704,000  | 510   | 696,000  | 510     | 686,000  | 500     |     |
| 154    | 5250                | 3 63                   |   |       |  |       |  |       | 748,000  | 600   | 742,000  | 600   | 734,000  | 600     | 726,000  | 590     |     |
| 162    | 5500                | 3 98                   |   |       |  |       |  |       |  |       | 780,000  | 690   | 772,000  | 680     | 764,000  | 680     |     |
| 169    | 5750                | 4 35                   |   |       |  |       |  |       |  |       | 818,000  | 790   | 812,000  | 780     | 806,000  | 780     |     |
| 176    | 6000                | 4 74                   |   |       |  |       |  |       |  |       | 856,000  | 910   |  | 852,000 | 900  | 844,000 | 890 |
| 184    | 6250                | 5 14                   |   |       |  |       |  |       |  |       |  |       | 888,000  | 1020    | 884,000  | 1010    |     |
| 191    | 6500                | 5 56                   |   |       |  |       |  |       |  |       |  |       | 926,000  | 1150    | 920,000  | 1140    |     |
| 198    | 6750                | 5 99                   |   |       |  |       |  |       |  |       |  |       |  |         | 960,000  | 1280    |     |
| R.P.M. | Tip Speed<br>F.P.M. | S.N.D.<br>in<br>inches | Static Pressure<br>1" Water<br>.578 ozs. per<br>sq. inch                      | H. P. | Static Pressure<br>1 1/4" Water<br>.723 ozs. per<br>sq. inch                     | H. P. | Static Pressure<br>1 1/2" Water<br>.878 ozs. per<br>sq. inch                     | H. P. | Static Pressure<br>1 3/4" Water<br>1.01 ozs. per<br>sq. inch                     | H. P. | Static Pressure<br>2" Water<br>1.16 ozs. per<br>sq. inch                     | H. P. | Static Pressure<br>2 1/4" Water<br>1.45 ozs. per<br>sq. inch                     | H. P.   | Static Pressure<br>2 1/2" Water<br>1.73 ozs. per<br>sq. inch                     | H. P.   |     |
| 88     | 3000                | 1 19                   | 173,000   | 47    |  |       |  |       |  |       |  |       |  |         |  |         |     |
| 94     | 3200                | 1 35                   | 312,000   | 94    | 31,200   | 29    |  |       |  |       |  |       |  |         |  |         |     |
| 100    | 3400                | 1 52                   | 368,000   | 125   | 274,000  | 94    |  |       |  |       |  |       |  |         |  |         |     |
| 106    | 3600                | 1 71                   | 416,000   | 160   | 356,000  | 135   | 77,400   | 47    |  |       |  |       |  |         |  |         |     |
| 112    | 3800                | 1 90                   | 460,000   | 195   | 412,000  | 175   | 338,000  | 145   | 40,800   | 49    |  |       |  |         |  |         |     |
| 118    | 4000                | 2 11                   | 500,000   | 240   | 460,000  | 220   | 408,000  | 180   | 310,000  | 150   |  |       |  |         |  |         |     |
| 124    | 4200                | 2 32                   | 538,000   | 280   | 504,000  | 260   | 462,000  | 240   | 400,000  | 210   | 118,000  | 80    |  |         |  |         |     |
| 129    | 4400                | 2 55                   | 576,000   | 330   | 544,000  | 310   | 508,000  | 290   | 464,000  | 260   | 392,000  | 210   |  |         |  |         |     |
| 135    | 4600                | 2 78                   | 608,000   | 380   | 594,000  | 370   | 552,000  | 350   | 514,000  | 320   | 470,000  | 290   | 73,600   | 94      |  |         |     |
| 141    | 4800                | 3 03                   | 644,000   | 440   | 620,000  | 430   | 594,000  | 410   | 560,000  | 380   | 520,000  | 350   | 384,000  | 260     |  |         |     |
| 147    | 5000                | 3 29                   | 678,000   | 500   | 658,000  | 490   | 634,000  | 470   | 604,000  | 450   | 570,000  | 430   | 474,000  | 350     | 64,400   | 115     |     |
| 154    | 5250                | 3 63                   | 718,000   | 580   | 702,000  | 570   | 678,000  | 560   | 656,000  | 540   | 624,000  | 510   | 550,000  | 440     | 416,000  | 340     |     |
| 162    | 5500                | 3 98                   | 758,000   | 670   | 742,000  | 660   | 724,000  | 650   | 702,000  | 630   | 676,000  | 610   | 614,000  | 550     | 526,000  | 470     |     |
| 169    | 5750                | 4 35                   | 796,000   | 780   | 784,000  | 770   | 766,000  | 760   | 748,000  | 740   | 724,000  | 710   | 672,000  | 660     | 602,000  | 580     |     |
| 176    | 6000                | 4 74                   | 840,000   | 880   | 824,000  | 870   | 812,000  | 870   | 792,000  | 850   | 772,000  | 830   | 726,000  | 770     | 666,000  | 710     |     |
| 184    | 6250                | 5 14                   | 878,000   | 1000  | 866,000  | 990   | 850,000  | 980   | 836,000  | 970   | 818,000  | 950   | 776,000  | 900     | 724,000  | 810     |     |
| 191    | 6500                | 5 56                   | 916,000   | 1130  | 900,000  | 1120  | 890,000  | 1110  | 878,000  | 1100  | 860,000  | 1080  | 826,000  | 1040    | 782,000  | 980     |     |
| 198    | 6750                | 5 99                   | 954,000   | 1270  | 944,000  | 1260  | 930,000  | 1250  | 920,000  | 1230  | 906,000  | 1220  | 870,000  | 1180    | 830,000  | 1130    |     |
| 206    | 7000                | 6 45                   | 992,000   | 1420  | 982,000  | 1430  | 970,000  | 1400  | 960,000  | 1380  | 946,000  | 1370  | 916,000  | 1340    | 880,000  | 1280    |     |
| 221    | 7500                | 7 40                   | 1,068,000   | 1760  | 1,060,000  | 1750  | 1,050,000  | 1730  | 1,040,000  | 1710  | 1,028,000  | 1700  | 1,002,000  | 1670    | 976,000  | 1630    |     |
| 235    | 8000                | 8 41                   | 1,136,000   | 2120  | 1,128,000  | 2120  | 1,118,000  | 2100  | 1,110,000  | 2080  | 1,100,000  | 2060  | 1,086,000  | 2040    | 1,064,000  | 2020    |     |
| 250    | 8500                | 9 50                   | 1,212,000   | 2580  | 1,202,000  | 2560  | 1,196,000  | 2540  | 1,188,000  | 2500  | 1,180,000  | 2480  | 1,166,000  | 2460    | 1,150,000  | 2440    |     |
| R.P.M. | Tip Speed<br>F.P.M. | S.N.D.<br>in<br>inches | Static Pressure<br>3 1/2" Water<br>2.02 ozs. per<br>sq. inch                  | H. P. | Static Pressure<br>4" Water<br>2.31 ozs. per<br>sq. inch                         | H. P. | Static Pressure<br>4 1/2" Water<br>2.69 ozs. per<br>sq. inch                     | H. P. | Static Pressure<br>5" Water<br>3.47 ozs. per<br>sq. inch                         | H. P. | Static Pressure<br>6" Water<br>4.05 ozs. per<br>sq. inch                     | H. P. | Static Pressure<br>7" Water<br>4.63 ozs. per<br>sq. inch                         | H. P.   | Static Pressure<br>8" Water<br>5.2 ozs. per<br>sq. inch                          | H. P.   |     |
| 162    | 5500                | 3 98                   | 114,000   | 170   |  |       |  |       |  |       |  |       |  |         |  |         |     |
| 169    | 5750                | 4 35                   | 494,000   | 480   |  |       |  |       |  |       |  |       |  |         |  |         |     |
| 176    | 6000                | 4 74                   | 588,000   | 620   | 29,800   | 300   |  |       |  |       |  |       |  |         |  |         |     |
| 184    | 6250                | 5 14                   | 660,000   | 760   | 570,000  | 650   |  |       |  |       |  |       |  |         |  |         |     |
| 191    | 6500                | 5 56                   | 726,000   | 900   | 656,000  | 810   | 103,000  | 260   |  |       |  |       |  |         |  |         |     |
| 198    | 6750                | 5 99                   | 782,000   | 1050  | 724,000  | 970   | 512,000  | 680   |  |       |  |       |  |         |  |         |     |
| 206    | 7000                | 6 45                   | 838,000   | 1220  | 788,000  | 1130  | 646,000  | 920   | 60,000   | 280   |  |       |  |         |  |         |     |
| 221    | 7500                | 7 40                   | 948,000   | 1570  | 900,000  | 1500  | 796,000  | 1310  | 630,000  | 1040  | 47,000   | 330   |  |         |  |         |     |
| 235    | 8000                | 8 41                   | 1,034,000   | 1980  | 1,002,000  | 1910  | 920,000  | 1740  | 814,000  | 1520  | 620,000  | 1170  | 42,200   | 380     |  |         |     |
| 250    | 8500                | 9 50                   | 1,122,000   | 2420  | 1,094,000  | 2360  | 1,030,000  | 2220  | 942,000  | 2020  | 840,000  | 1770  | 564,000  | 1350    | 50,400   | 490     |     |
| 265    | 9000                | 10 67                  | 1,204,000   | 2900  | 1,186,000  | 2860  | 1,130,000  | 2720  | 1,062,000  | 2580  | 978,000  | 2340  | 866,000  | 2060    | 446,000  | 1110    |     |
| 270    | 9500                | 11 89                  | 1,290,000   | 3460  | 1,270,000  | 3420  | 1,224,000  | 3300  | 1,168,000  | 3140  | 1,098,000  | 2840  | 1,012,000  | 2680    | 906,000  | 2400    |     |
| 294    | 10000               | 13 17                  | 1,372,000   | 4020  | 1,356,000  | 4000  | 1,316,000  | 3920  | 1,236,000  | 3760  | 1,206,000  | 3600  | 1,110,000  | 3360    | 1,064,000  | 3100    |     |

Double Inlet

## No. 24 Multivane Fan—Design 3

Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M. H.P. Static Pressure 1/2" Water .0722 ozs. per sq. inch | Volume C.F.M. H.P. Static Pressure 1/2" Water .145 ozs. per sq. inch | Volume C.F.M. H.P. Static Pressure 1/2" Water .217 ozs. per sq. inch | Volume C.F.M. H.P. Static Pressure 1/2" Water .289 ozs. per sq. inch | Volume C.F.M. H.P. Static Pressure 1/2" Water .361 ozs. per sq. inch | Volume C.F.M. H.P. Static Pressure 1/2" Water .434 ozs. per sq. inch | Volume C.F.M. H.P. Static Pressure 1/2" Water .506 ozs. per sq. inch |
|--------|------------------|------------------|---|--|--|--|--|--|--|
| 28     | 1075             | 0 152            | 35,600 1 5  |  |  |  |  |  |  |
| 32     | 1200             | 0 189            | 157,000 6 6   |  |  |  |  |  |  |
| 37     | 1400             | 0 258            | 210,000 12 5  | 5,580 3  |  |  |  |  |  |
| 43     | 1600             | 0 337            | 256,000 19 5  | 188,000 14   |  |  |  |  |  |
| 48     | 1800             | 0 426            | 296,000 28  | 252,000 21   | 15,600 7   |  |  |  |  |
| 52     | 2000             | 0 526            | 336,000 39  | 302,000 36   | 246,000 29   | 12,800 7   |  |  |  |
| 59     | 2200             | 0 636            | 371,000 52  | 348,000 50   | 308,000 44   | 210,000 34   | 4,400 9  |  |  |
| 64     | 2400             | 0 759            | 412,000 70  | 390,000 66   | 360,000 62   | 314,000 54   | 231,000 40   | 3,360 11   |  |
| 70     | 2600             | 0 889            | 448,000 88  | 430,000 85   | 406,000 82   | 372,000 74   | 321,000 61   | 232,000 48   |  |
| 75     | 2800             | 1 03             |   | 468,000 110  | 448,000 105  | 422,000 98   | 386,000 90   | 330,000 76   | 231,000 58   |
| 80     | 3000             | 1 19             |   | 508,000 130  | 490,000 130  | 468,000 125  | 440,000 115  | 404,000 110  | 356,000 94   |
| 86     | 3200             | 1 35             |   | 544,000 165  | 532,000 160  | 512,000 155  | 488,000 150  | 460,000 140  | 424,000 130  |
| 91     | 3400             | 1 52             |   | 582,000 195  | 568,000 190  | 552,000 190  | 532,000 190  | 512,000 175  | 480,000 165  |
| 96     | 3600             | 1 71             |   | 618,000 240  | 606,000 230  | 592,000 230  | 576,000 220  | 556,000 210  | 532,000 200  |
| 102    | 3800             | 1 90             |   | 656,000 280  | 644,000 270  | 630,000 270  | 616,000 260  | 600,000 250  | 578,000 250  |
| 107    | 4000             | 2 11             |   |  | 682,000 320  | 670,000 310  | 656,000 310  | 644,000 310  | 624,000 300  |
| 112    | 4200             | 2 32             |   |  | 720,000 370  | 706,000 370  | 696,000 360  | 684,000 360  | 668,000 350  |
| 118    | 4400             | 2 55             |   |  | 756,000 430  | 748,000 430  | 736,000 420  | 722,000 410  | 710,000 410  |
| 123    | 4600             | 2 78             |   |  | 794,000 490  | 784,000 480  | 774,000 480  | 762,000 470  | 752,000 470  |
| 128    | 4800             | 3 03             |   |  |  | 822,000 550  | 812,000 550  | 802,000 540  | 792,000 540  |
| 134    | 5000             | 3 29             |   |  |  | 860,000 630  | 850,000 620  | 840,000 610  | 830,000 610  |
| 140    | 5250             | 3 63             |   |  |  | 906,000 730  | 898,000 720  | 888,000 720  | 878,000 710  |
| 147    | 5500             | 3 98             |   |  |  |  | 944,000 840  | 934,000 820  | 936,000 820  |
| 151    | 5750             | 4 35             |   |  |  |  | 990,000 960  | 984,000 950  | 976,000 940  |
| 160    | 6000             | 4 74             |   |  |  |  | 1,036,000 1100   | 1,030,000 1090   | 1,022,000 1080   |
| 167    | 6250             | 5 14             |   |  |  |  |  | 1,076,000 1230   | 1,070,000 1220   |
| 174    | 6500             | 5 56             |   |  |  |  |  | 1,122,000 1390   | 1,116,000 1380   |
| 181    | 6750             | 5 99             |   |  |  |  |  |  | 1,162,000 1550   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 ozs. per sq. inch                       | Static Pressure 1 1/2" Water .723 ozs. per sq. inch                  | Static Pressure 1 1/2" Water .878 ozs. per sq. inch                  | Static Pressure 1 1/2" Water 1.01 ozs. per sq. inch                  | Static Pressure 2" Water 1.16 ozs. per sq. inch                      | Static Pressure 2 1/2" Water 1.45 ozs. per sq. inch                  | Static Pressure 3" Water 1.73 ozs. per sq. inch                      |
| 80     | 3000             | 1 19             | 210,000 56  |  |  |  |  |  |  |
| 86     | 3200             | 1 35             | 378,000 110   | 37,800 35  |  |  |  |  |  |
| 91     | 3400             | 1 52             | 416,000 150   | 332,000 110  |  |  |  |  |  |
| 96     | 3600             | 1 71             | 504,000 190   | 432,000 165  | 91,200 56  |  |  |  |  |
| 102    | 3800             | 1 90             | 558,000 240   | 500,000 210  | 410,000 170  | 49,400 58  |  |  |  |
| 107    | 4000             | 2 11             | 606,000 290   | 558,000 260  | 492,000 220  | 376,000 175  |  |  |  |
| 112    | 4200             | 2 32             | 652,000 340   | 610,000 320  | 558,000 290  | 486,000 250  | 142,000 98   |  |  |
| 118    | 4400             | 2 55             | 696,000 400   | 658,000 380  | 614,000 350  | 560,000 320  | 474,000 290  |  |  |
| 123    | 4600             | 2 78             | 736,000 460   | 706,000 440  | 668,000 420  | 620,000 390  | 568,000 350  | 89,000 110   |  |
| 128    | 4800             | 3 03             | 778,000 530   | 750,000 520  | 718,000 490  | 676,000 460  | 628,000 430  | 466,000 320  |  |
| 134    | 5000             | 3 29             | 820,000 610   | 796,000 590  | 776,000 570  | 730,000 540  | 688,000 520  | 572,000 420  | 77,800 140   |
| 140    | 5250             | 3 63             | 868,000 700   | 848,000 690  | 820,000 680  | 792,000 650  | 754,000 620  | 666,000 540  | 504,000 410  |
| 147    | 5500             | 3 98             | 918,000 810   | 898,000 800  | 876,000 790  | 848,000 760  | 818,000 740  | 742,000 660  | 636,000 560  |
| 151    | 5750             | 4 35             | 964,000 940   | 948,000 920  | 928,000 910  | 904,000 890  | 876,000 860  | 816,000 800  | 728,000 710  |
| 160    | 6000             | 4 74             | 1,016,000 1070  | 998,000 1050   | 980,000 1050   | 958,000 1020   | 934,000 1000   | 878,000 940  | 806,000 850  |
| 167    | 6250             | 5 14             | 1,062,000 1210  | 1,048,000 1200   | 1,030,000 1170   | 1,010,000 1170   | 988,000 1150   | 938,000 1090   | 876,000 1010   |
| 174    | 6500             | 5 56             | 1,108,000 1370  | 1,090,000 1350   | 1,078,000 1340   | 1,062,000 1330   | 1,040,000 1310   | 998,000 1260   | 946,000 1190   |
| 181    | 6750             | 5 99             | 1,156,000 1540  | 1,144,000 1530   | 1,128,000 1510   | 1,112,000 1490   | 1,096,000 1480   | 1,074,000 1430   | 1,066,000 1370   |
| 187    | 7000             | 6 45             | 1,202,000 1720  | 1,190,000 1710   | 1,176,000 1700   | 1,162,000 1680   | 1,146,000 1650   | 1,108,000 1620   | 1,066,000 1550   |
| 200    | 7500             | 7 40             | 1,294,000 2140  | 1,284,000 2120   | 1,270,000 2020   | 1,258,000 2080   | 1,244,000 2060   | 1,214,000 2020   | 1,180,000 1980   |
| 214    | 8000             | 8 41             |   | 1,376,000 2560   | 1,366,000 2500   | 1,354,000 2540   | 1,342,000 2500   | 1,314,000 2480   | 1,290,000 2440   |
| 227    | 8500             | 9 50             |   | 1,470,000 3120   | 1,458,000 3080   | 1,448,000 3060   | 1,438,000 3040   | 1,412,000 3000   | 1,390,000 2980   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 3 1/2" Water 2.02 ozs. per sq. inch                   | Static Pressure 4" Water 2.31 ozs. per sq. inch                      | Static Pressure 5" Water 2.89 ozs. per sq. inch                      | Static Pressure 6" Water 3.47 ozs. per sq. inch                      | Static Pressure 7" Water 4.05 ozs. per sq. inch                      | Static Pressure 8" Water 4.63 ozs. per sq. inch                      | Static Pressure 9" Water 5.2 ozs. per sq. inch                       |
| 147    | 5500             | 3 98             | 110,000 200   |  |  |  |  |  |  |
| 151    | 5750             | 4 35             | 596,000 580   |  |  |  |  |  |  |
| 160    | 6000             | 4 74             | 712,000 750   | 360,000 360  |  |  |  |  |  |
| 167    | 6250             | 5 14             | 798,000 910   | 688,000 790  |  |  |  |  |  |
| 171    | 6500             | 5 56             | 878,000 1090  | 794,000 980  | 125,000 320  |  |  |  |  |
| 181    | 6750             | 5 99             | 946,000 1270  | 876,000 1170   | 618,000 820  |  |  |  |  |
| 187    | 7000             | 6 45             | 1,014,000 1480  | 952,000 1370   | 780,000 1120   | 72,600 340   |  |  |  |
| 200    | 7500             | 7 40             | 1,138,000 1900  | 1,090,000 1820   | 962,000 1590   | 762,000 1260   | 57,000 400   |  |  |
| 214    | 8000             | 8 41             | 1,250,000 2370  | 1,212,000 2320   | 1,114,000 2100   | 984,000 1840   | 750,000 1410   |  |  |
| 227    | 8500             | 9 50             | 1,358,000 2920  | 1,326,000 2860   | 1,218,000 2680   | 1,110,000 2440   | 1,018,000 2140   | 61,000 600   |  |
| 241    | 9000             | 10 67            | 1,458,000 3500  | 1,436,000 3460   | 1,366,000 3300   | 1,286,000 3120   | 1,182,000 2840   | 848,000 2480   | 540,000 1340   |
| 254    | 9500             | 11 89            | 1,562,000 4180  | 1,538,000 4140   | 1,482,000 3980   | 1,412,000 3800   | 1,328,000 3560   | 1,226,000 3240   | 1,096,000 2600   |
| 238    | 10000            | 13 17            | 1,662,000 4860  | 1,640,000 4810   | 1,594,000 4740   | 1,532,000 4560   | 1,460,000 4360   | 1,378,000 4060   | 1,276,000 3740   |



Double Inlet

## No. 26 Multivane Fan—Design 3

Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M. H. P. Static Pressure 1" Water .0722 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1 1/4" Water .145 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1 1/2" Water .217 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1 3/4" Water .289 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 2" Water .361 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 2 1/4" Water .434 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 2 1/2" Water .506 ozs. per sq. inch |
|--------|------------------|------------------|--|---|---|---|---|---|---|
| 24     | 1075             | 0 152            | 42,100   | 2   |   |   |   |   |   |
| 28     | 1200             | 0 189            | 187,000  | 8   |   |   |   |   |   |
| 32     | 1400             | 0 258            | 250,000  | 15  | 6,660   | 3   |   |   |   |
| 37     | 1600             | 0 337            | 301,000  | 23  | 221,000   | 17  |   |   |   |
| 42     | 1800             | 0 426            | 352,000  | 31  | 300,000   | 29  | 54,400  | 8   |   |
| 46     | 2000             | 0 526            | 400,000  | 47  | 360,000   | 43  | 294,000   | 34  | 15,200  |
| 51     | 2200             | 0 636            | 444,000  | 62  | 414,000   | 60  | 366,000   | 52  | 286,000   |
| 55     | 2400             | 0 759            | 490,000  | 82  | 462,000   | 80  | 428,000   | 71  | 371,000   |
| 60     | 2600             | 0 889            | 532,000  | 105   | 512,000   | 100   | 482,000   | 98  | 442,000   |
| 65     | 2800             | 1 03             |  |   | 558,000   | 130   | 534,000   | 125   | 502,000   |
| 69     | 3000             | 1 19             |  |   | 606,000   | 160   | 581,000   | 155   | 556,000   |
| 74     | 3200             | 1 35             |  |   | 618,000   | 190   | 630,000   | 190   | 608,000   |
| 78     | 3400             | 1 52             |  |   | 604,000   | 230   | 676,000   | 230   | 656,000   |
| 83     | 3600             | 1 71             |  |   | 736,000   | 280   | 720,000   | 270   | 706,000   |
| 88     | 3800             | 1 90             |  |   | 782,000   | 330   | 768,000   | 320   | 752,000   |
| 92     | 4000             | 2 11             |  |   |   | 380   | 812,000   | 370   | 798,000   |
| 97     | 4200             | 2 32             |  |   | 858,000   | 440   | 842,000   | 440   | 830,000   |
| 102    | 4400             | 2 55             |  |   | 900,000   | 520   | 890,000   | 510   | 876,000   |
| 106    | 4600             | 2 78             |  |   | 944,000   | 590   | 934,000   | 580   | 922,000   |
| 111    | 4800             | 3 03             |  |   |   |   | 980,000   | 660   | 968,000   |
| 115    | 5000             | 3 29             |  |   |   |   | 1,024,000   | 750   | 1,012,000   |
| 121    | 5250             | 3 63             |  |   |   |   | 1,078,000   | 870   | 1,070,000   |
| 127    | 5500             | 3 98             |  |   |   |   |   |   | 1,124,000   |
| 133    | 5750             | 4 35             |  |   |   |   |   |   | 1,180,000   |
| 138    | 6000             | 4 74             |  |   |   |   |   |   | 1,232,000   |
| 144    | 6250             | 5 14             |  |   |   |   |   |   | 1,288,000   |
| 150    | 6500             | 5 56             |  |   |   |   |   |   | 1,335,000   |
| 156    | 6750             | 5 99             |  |   |   |   |   |   | 1,382,000   |
| 161    | 7000             | 6 45             |  |   |   |   |   |   | 1,432,000   |
| 173    | 7500             | 7 40             |  |   |   |   |   |   | 1,482,000   |
| 181    | 8000             | 8 41             |  |   |   |   |   |   | 1,532,000   |
| 196    | 8500             | 9 50             |  |   |   |   |   |   | 1,582,000   |
| 208    | 9000             | 10 67            |  |   |   |   |   |   | 1,632,000   |
| 219    | 9500             | 11 87            |  |   |   |   |   |   | 1,682,000   |
| 230    | 10000            | 13 17            |  |   |   |   |   |   | 1,732,000   |

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .0722 ozs. per sq. inch | Static Pressure 1 1/4" Water .145 ozs. per sq. inch | Static Pressure 1 1/2" Water .217 ozs. per sq. inch | Static Pressure 1 3/4" Water .289 ozs. per sq. inch | Static Pressure 2" Water .361 ozs. per sq. inch | Static Pressure 2 1/4" Water .434 ozs. per sq. inch | Static Pressure 2 1/2" Water .506 ozs. per sq. inch |
|--------|------------------|------------------|--|---|---|---|---|---|---|
| 69     | 3000             | 1 19             | 250,000  | 68  |   |   |   |   |   |
| 74     | 3200             | 1 35             | 450,000  | 136   | 44,800  | 41  |   |   |   |
| 78     | 3400             | 1 52             | 530,000  | 180   | 396,000   | 135   |   |   |   |
| 83     | 3600             | 1 71             | 600,000  | 230   | 514,000   | 195   | 109,000   | 66  |   |
| 88     | 3800             | 1 90             | 661,000  | 280   | 594,000   | 250   | 488,000   | 210   | 58,800  |
| 92     | 4000             | 2 11             | 720,000  | 340   | 664,000   | 310   | 586,000   | 280   | 446,000   |
| 97     | 4200             | 2 32             | 776,000  | 410   | 728,000   | 380   | 666,000   | 340   | 578,000   |
| 102    | 4400             | 2 55             | 830,000  | 480   | 784,000   | 450   | 732,000   | 420   | 668,000   |
| 106    | 4600             | 2 78             | 876,000  | 550   | 842,000   | 530   | 796,000   | 500   | 740,000   |
| 111    | 4800             | 3 03             | 928,000  | 630   | 894,000   | 610   | 856,000   | 590   | 806,000   |
| 115    | 5000             | 3 29             | 978,000  | 720   | 948,000   | 700   | 912,000   | 680   | 868,000   |
| 121    | 5250             | 3 63             | 1,031,000  | 840   | 1,010,000   | 820   | 976,000   | 800   | 944,000   |
| 127    | 5500             | 3 98             | 1,094,000  | 970   | 1,070,000   | 960   | 1,042,000                                       | 940   | 1,010,000   |
| 133    | 5750             | 4 35             | 1,148,000  | 1120  | 1,130,000   | 1100  | 1,104,000                                       | 1080  | 1,076,000   |
| 138    | 6000             | 4 74             | 1,210,000  | 1270  | 1,190,000   | 1260  | 1,168,000                                       | 1250  | 1,140,000   |
| 144    | 6250             | 5 14             | 1,264,000  | 1440  | 1,248,000   | 1420  | 1,228,000                                       | 1410  | 1,202,000   |
| 150    | 6500             | 5 56             | 1,320,000  | 1630  | 1,300,000   | 1610  | 1,284,000                                       | 1600  | 1,264,000   |
| 156    | 6750             | 5 99             | 1,376,000  | 1830  | 1,362,000   | 1820  | 1,342,000                                       | 1800  | 1,324,000   |
| 161    | 7000             | 6 45             | 1,432,000  | 2040  | 1,416,000   | 2040  | 1,398,000                                       | 2020  | 1,381,000   |
| 173    | 7500             | 7 40             | 1,540,000  | 2540  | 1,528,000   | 2520  | 1,512,000                                       | 2500  | 1,498,000   |
| 181    | 8000             | 8 41             | 1,634,000  | 3060  | 1,624,000   | 3040  | 1,612,000                                       | 3020  | 1,596,000   |
| 196    | 8500             | 9 50             | 1,750,000  | 3720  | 1,734,000   | 3680  | 1,722,000                                       | 3640  | 1,710,000   |
| 208    | 9000             | 10 67            | 1,876,000  | 4460  | 1,866,000   | 4420  | 1,850,000                                       | 4380  | 1,834,000   |
| 219    | 9500             | 11 87            | 1,976,000  | 5280  | 1,966,000   | 5240  | 1,950,000                                       | 5200  | 1,934,000   |
| 230    | 10000            | 13 17            | 2,076,000  | 6180  | 2,066,000   | 6140  | 2,050,000                                       | 6100  | 2,034,000   |

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 3 1/2" Water 2.02 ozs. per sq. inch | Static Pressure 4" Water 2.31 ozs. per sq. inch | Static Pressure 5" Water 2.89 ozs. per sq. inch | Static Pressure 6" Water 3.47 ozs. per sq. inch | Static Pressure 7" Water 4.05 ozs. per sq. inch | Static Pressure 8" Water 4.63 ozs. per sq. inch | Static Pressure 9" Water 5.2 ozs. per sq. inch |
|--------|------------------|------------------|---|---|---|---|---|---|--|
| 127    | 5500             | 3 98             | 167,000   | 210   |   |   |   |   |  |
| 133    | 5750             | 4 35             | 710,000   | 690   |   |   |   |   |  |
| 138    | 6000             | 4 74             | 818,000   | 890   | 428,000   | 430   |   |   |  |
| 144    | 6250             | 5 14             | 950,000   | 1090  | 820,000   | 940   |   |   |  |
| 150    | 6500             | 5 56             | 1,014,000   | 1300  | 946,000   | 1170  | 148,000   | 380   |  |
| 156    | 6750             | 5 99             | 1,126,000   | 1510  | 1,042,000                                       | 1390  | 736,000   | 980   |  |
| 161    | 7000             | 6 45             | 1,206,000   | 1760  | 1,132,000                                       | 1630  | 930,000   | 1330  | 86,400   |
| 173    | 7500             | 7 40             | 1,354,000   | 2240  | 1,298,000                                       | 2160  | 1,146,000                                       | 1890  | 908,000  |
| 181    | 8000             | 8 41             | 1,488,000   | 2840  | 1,412,000                                       | 2760  | 1,326,000                                       | 2500  | 1,172,000                                      |
| 196    | 8500             | 9 50             | 1,616,000   | 3480  | 1,576,000                                       | 3400  | 1,484,000                                       | 3180  | 1,358,000                                      |
| 208    | 9000             | 10 67            | 1,734,000   | 4160  | 1,708,000                                       | 4120  | 1,626,000                                       | 3920  | 1,530,000                                      |
| 219    | 9500             | 11 87            | 1,858,000   | 4960  | 1,828,000                                       | 4920  | 1,762,000                                       | 4740  | 1,692,000                                      |
| 230    | 10000            | 13 17            | 1,976,000   | 5780  | 1,950,000                                       | 5760  | 1,894,000                                       | 5640  | 1,822,000                                      |

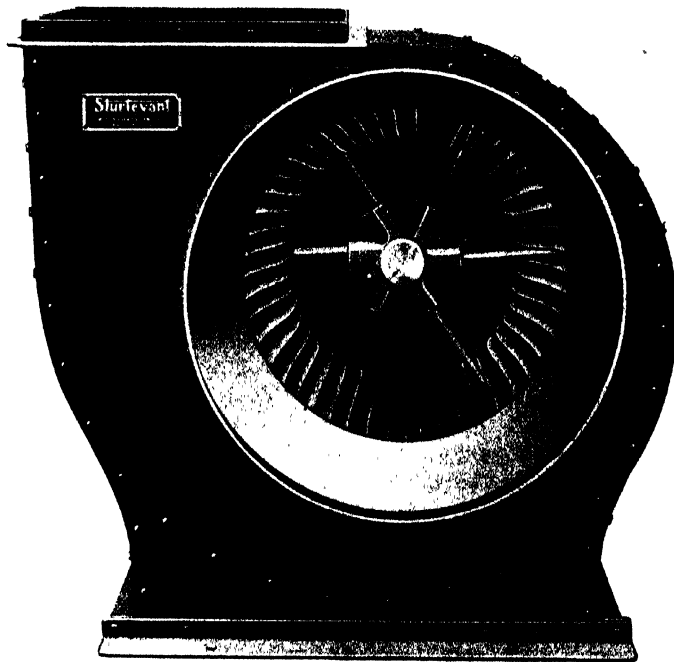
# **SUPERVANE FANS**

## **Design 1**

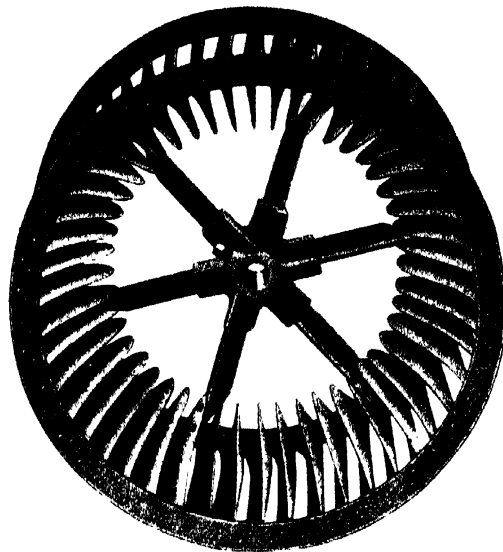
**Dimensions, Capacities, Horse Powers**



## Supervane Fan



Sturtevant Supervane Fan—Design 1



Supervane Wheel

# SUPERVANE FAN—DESIGN 1

## SPECIFICATIONS

**General.** There shall be furnished a No. . . . ., Sturtevant Supervane Fan. It shall be made (single or double) . . . . . inlet, (single or double) . . . . . width, (right or left) . . . . . hand, . . . . . discharge and have (full or  $\frac{7}{8}$ ) . . . . . housing. The wheel shall be not less than . . . . . " diameter, . . . . . " wide. The outlet shall be . . . . . " by . . . . . ", the diameter of the inlet shall be . . . . . ". The total height of the fan housing shall be . . . . . ", the width in direction of shaft . . . . . ", and the length transverse of shaft . . . . . ".

The fan shall have a capacity of . . . . . cubic feet per minute against a resistance of . . . . . " water gauge either at the inlet or at the outlet (or at both taking the sum) and shall operate at approximately . . . . . R.P.M., requiring approximately . . . . . B.H.P.

**Housing.** The housing shall be of spiral form constructed of steel plate and angle irons strongly braced and bolted and riveted to a rigid frame of angle irons. The side plates and round-about sheet shall be made of No. 11 gauge for fans above 45" high. The few smaller sizes shall have these parts made of No. 14 gauge plate. The outlet shall be rectangular in shape and consist of angle irons bolted to the housing and arranged for connection to a discharge duct. The inlet shall be of cone shape and so constructed as to allow the wheel to be taken out through the opening caused by the removal of the cone. In the single inlet fan the side opposite the inlet shall be closed by a dished plate bolted to the side of the housing. The cutoff piece shall be made of a sheet bent 180 degrees upon itself and having the two ends bolted to the spiral sheet, thus leaving no edges of metal which can in any way be acted upon by the air issuing from the outlet so as to produce vibration, and therefore, noise at this point.

**Wheel.** The blades of the wheel shall be made of refined steel plate. Both the outer or discharge edge and the inner or intake edge of the blade shall have a maximum diameter at the side plates of the wheel. The diameter of each of these edges shall diminish as the center of the wheel is approached, at which point it is a minimum. The outer edge of the blade shall not be in a plane through the axis but shall recede gradually from either side plate in to the center of the wheel while the inner edge at all points shall lie in a plane through the axis of the fan. The inner edge of the blade at the center shall be relatively of very small diameter extending in almost to the hub of the wheel. The blade shall be dished and curved forward in such a manner as to most efficiently handle the air from the time it enters till it leaves the blade. The blades shall be pressed and formed while hot by means of punch and die to insure uniformity and strength in the blades throughout the wheel. The hub shall be made of cast iron having cast integral with it and emanating from it, steel arms of "T" section. The hub shall be accurately bored and fitted with keyway and set screws. The blades shall be riveted at either end to annular steel plate rings or side plates. The holes through which the blades are riveted to the side plates shall be punched to template as well as the blades themselves, to insure the proper position of each blade in the wheel. The outer ends of the "T" arms emanating from the hub shall be riveted to the center portion of the driving blades which shall be of thicker metal than the intermediate blades. The wheel shall be absolutely symmetrical either side of its center, and having no back plate can be used for either a right or left hand fan, and have either single or double inlet. The wheel shall be very carefully balanced.

**Bearings.** The bearings shall be of the spherical self-aligning ring oiled type and bolted to their support. They shall be of large diameter and built extra long to give ample bearing surface. Each bearing shall be fitted with two oil rings which feed oil on to the shaft from a large oil well located in the bottom part of the box. The bearings shall be lined with the best quality babbit, containing upwards of 85% tin, bored and scraped to exact size.

**Shaft.** The shaft shall be made of steel forging and after the keyways are cut, shall be accurately turned and ground.

# SUPERVANE FAN—DESIGN 1

## EXPLANATION OF SPECIFICATION REQUIREMENTS

**Noise.** Special attention is called to the construction of the cut-off point, which, considering fans in general, is the seat of most noise in the nature of a sustained metallic note. Obviously any edge of metal whether directly or indirectly in the flow of air can be acted upon more or less like a reed and the design of cut-off in this fan avoids this condition.

The flow of air over the surfaces in a fan wheel and casing obviously produces any noise which may exist (a fan wheel revolving in a vacuum will produce no noise, assuming of course, proper mechanical balance in the wheel). The noise is also a function of the velocity of flow. In this fan the velocity at all points as the air passes through the wheel is lower than in the general run of fans of this type or as used for this service, thereby operating against the production of noise.

**Provision for Minimizing Losses.** The greater diameter of the blade at each side plate does away with the loss due to air pockets, hence eddy currents, ordinarily existing in this portion of the blade. The projection of the intake edge of the blade deep into the intake chamber picks up the air with less shock and delivers it to the outer or major portion of the blade where for the most part the work on the air is done.

**Distribution of Stresses.** The driving arms of the hub being attached to the center of the driving blades, in other words at a point one-half way along their axial length, produce a construction in which the stresses coming upon it in operation are perfectly distributed and balanced.

**Strength and Rigidity.** Not only is the driving effort applied at the logical and proper point but this has the added feature of holding the wheel in shape and preventing the blades from bowing out. Each blade is like a uniformly loaded beam when the fan is in operation, that is, centrifugal force is acting alike on each element of the blade. Under high speed an improperly designed wheel will first show signs of failing in the bulging or bowing out of the blades at their center, which in turn moves the two side plates nearer together. Without a center support construction there is nothing to stop the movement of the side plates toward each other except the ability of the blade to resist bending (not stretching). With the center support construction, however, the driving blades are tied down at their center by their connection to the driving arms, thus producing a strut or spacing piece at each point where the driving blade is located which will not permit the side plates to move toward each other. The intermediate blades, therefore, to bulge or bow out must either stretch themselves or pull the rivets. The spider arm construction with center support is considerably stronger than the usual designs of wheel supported from the back.

**Wearing Qualities.** Barring the metal of the fan itself being subjected to violent corrosion or chemical action of gases handled by the fan the brunt in the long run is borne by the shaft and bearings. Therefore, for long satisfactory service a shaft which is carefully turned and ground to gauge running in bearings containing a very high quality babbit metal is bound to show its worth.

## **Supervane Fan—Design 1**

### **EXPLANATION OF TABLES**

The general explanation of tables given at the front of this book applies without exception to the following tables.

Single Inlet

Single Width

**Approximate Weights Supervane Fans—Design 1**

Full Housing

B. H. D.

|  | Size | Overhung Wheel | Overhung Pulley |  |
|--|------|----------------|-----------------|--|
|  | A    | 207            | 207             |  |
|  | B    | 310            | 310             |  |
|  | C    | 437            | 437             |  |
|  | D    | 632            | 632             |  |
|  | E    | 826            | 826             |  |
|  | F    | 1044           | 1044            |  |
|  | G    | 1448           | 1448            |  |
|  | H    | 1838           | 1838            |  |
|  | J    | 2347           | 2347            |  |
|  | K    | 3097           | 3097            |  |
|  | L    | 3538           | 3538            |  |
|  | M    | 4760           | 4760            |  |
|  | N    | 5403           | 5403            |  |
|  | P    | 6820           | 6820            |  |
|  | Q    | 8155           | 8155            |  |
|  | R    | 9182           | 9482            |  |

Single Inlet

**Weights Supervane Fans—Design 1**

Single Width

7/8 Housing

T. H. D.

|  | Size | Overhung Wheel | Overhung Pulley |  |
|--|------|----------------|-----------------|--|
|  | J    | 1910           | 1910            |  |
|  | K    | 2430           | 2430            |  |
|  | L    | 3108           | 3108            |  |
|  | M    | 4157           | 4157            |  |
|  | N    | 4777           | 4777            |  |
|  | P    | 6051           | 6051            |  |
|  | Q    | 7183           | 7183            |  |
|  | R    | 8476           | 8476            |  |
|  | S    |                | 11120           |  |
|  | T    |                | 12840           |  |
|  | U    |                | 16071           |  |
|  | V    |                | 20153           |  |
|  | W    |                | 23038           |  |
|  | X    |                | 26723           |  |
|  | Y    |                | 29652           |  |



Single Inlet

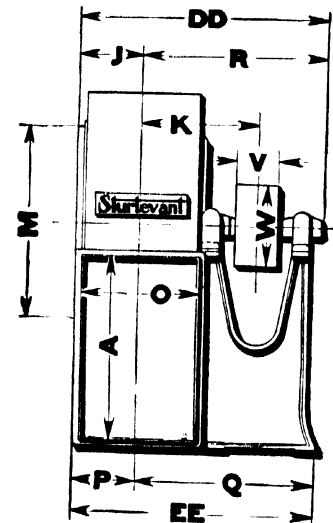
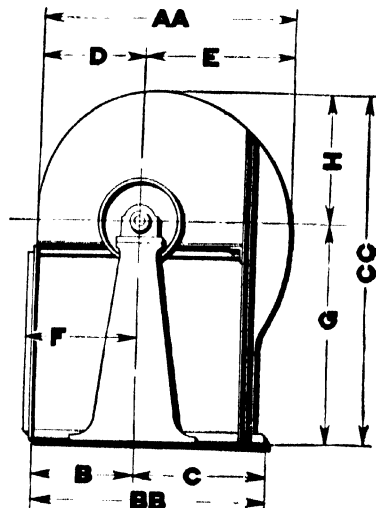
## Supervane Fan—Design 1

Single Width

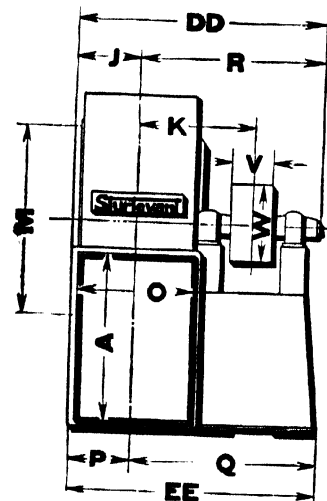
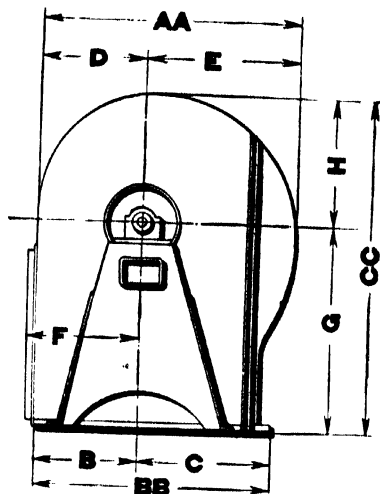
Full Housing

Bottom Horizontal Discharge

Overhung Wheel



| Size | A  | B  | C  | D  | E  | F  | G  | H  | J  | K  | M  | O  | P  | Q  | R  | V  | W  | AA | BB | CC | DD | EE | Wheel Dia. | Shaft Dia. | Anchor Bolts |   |
|------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|------------|------------|--------------|---|
| A    | 13 | 8  | 11 | 8  | 12 | 9  | 18 | 10 | 5  | 12 | 15 | 9  | 6  | 21 | 21 | 4  | 7  | 20 | 19 | 28 | 27 | 27 | 11         | 1          | 1            | 1 |
| B    | 16 | 10 | 13 | 10 | 15 | 12 | 22 | 12 | 7  | 14 | 19 | 11 | 7  | 23 | 23 | 4  | 8  | 25 | 24 | 31 | 31 | 31 | 17         | 1          |              |   |
| C    | 19 | 12 | 15 | 12 | 17 | 13 | 25 | 15 | 8  | 16 | 22 | 13 | 9  | 25 | 25 | 5  | 9  | 30 | 28 | 40 | 31 | 35 | 20         | 1          | 1            | 1 |
| D    | 22 | 14 | 18 | 14 | 20 | 16 | 30 | 17 | 9  | 19 | 26 | 15 | 10 | 31 | 31 | 5  | 10 | 35 | 32 | 47 | 41 | 42 | 24         | 1          |              |   |
| E    | 25 | 16 | 20 | 16 | 23 | 18 | 32 | 19 | 10 | 20 | 29 | 18 | 11 | 33 | 33 | 6  | 11 | 39 | 36 | 52 | 44 | 45 | 27         | 1          | 1            | 1 |
| F    | 28 | 18 | 22 | 18 | 26 | 20 | 35 | 22 | 11 | 22 | 33 | 20 | 12 | 36 | 36 | 7  | 12 | 41 | 40 | 57 | 48 | 49 | 30         | 1          |              |   |
| G    | 32 | 20 | 24 | 20 | 30 | 22 | 41 | 25 | 13 | 25 | 37 | 22 | 13 | 41 | 41 | 8  | 14 | 50 | 45 | 66 | 51 | 55 | 35         | 2          | 2            | 2 |
| H    | 36 | 23 | 28 | 23 | 33 | 25 | 48 | 28 | 14 | 28 | 42 | 25 | 16 | 46 | 46 | 9  | 16 | 57 | 51 | 76 | 61 | 62 | 39         | 2          |              |   |
| J    | 40 | 25 | 30 | 25 | 37 | 27 | 55 | 31 | 16 | 31 | 46 | 28 | 17 | 50 | 50 | 10 | 18 | 63 | 56 | 86 | 66 | 68 | 43         | 2          | 2            | 2 |
| K    | 46 | 29 | 34 | 29 | 43 | 32 | 61 | 36 | 18 | 34 | 54 | 32 | 19 | 56 | 56 | 11 | 20 | 72 | 64 | 97 | 74 | 75 | 50         | 2          |              |   |



| Size | A  | B  | C  | D  | E  | F  | G   | H  | J  | K  | M  | O  | P  | Q  | R  | V  | W  | AA  | BB  | CC  | DD  | EE  | Wheel Dia. | Shaft Dia. | Anchor Bolts |   |
|------|----|----|----|----|----|----|-----|----|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|------------|------------|--------------|---|
| L    | 52 | 33 | 38 | 33 | 48 | 36 | 65  | 40 | 20 | 33 | 61 | 36 | 22 | 50 | 51 | 12 | 22 | 82  | 72  | 106 | 71  | 72  | 56         | 2          | 2            | 1 |
| M    | 58 | 37 | 42 | 37 | 54 | 40 | 73  | 45 | 22 | 36 | 68 | 40 | 24 | 55 | 56 | 12 | 24 | 91  | 80  | 118 | 78  | 80  | 63         | 2          |              |   |
| N    | 64 | 41 | 46 | 41 | 59 | 43 | 81  | 50 | 24 | 39 | 75 | 45 | 27 | 58 | 59 | 13 | 28 | 101 | 88  | 131 | 84  | 85  | 69         | 3          | 3            | 1 |
| P    | 70 | 45 | 50 | 45 | 65 | 48 | 88  | 54 | 26 | 42 | 82 | 49 | 29 | 63 | 65 | 13 | 32 | 110 | 95  | 142 | 92  | 93  | 76         | 3          |              |   |
| Q    | 76 | 49 | 55 | 49 | 71 | 52 | 95  | 59 | 29 | 46 | 89 | 53 | 32 | 69 | 71 | 14 | 36 | 120 | 104 | 154 | 100 | 102 | 82         | 4          | 4            | 1 |
| R    | 81 | 54 | 60 | 54 | 78 | 57 | 105 | 65 | 32 | 49 | 98 | 59 | 35 | 72 | 74 | 14 | 42 | 132 | 114 | 170 | 106 | 107 | 91         | 4          |              |   |

Single Inlet

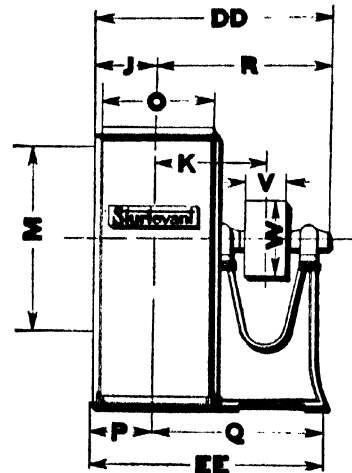
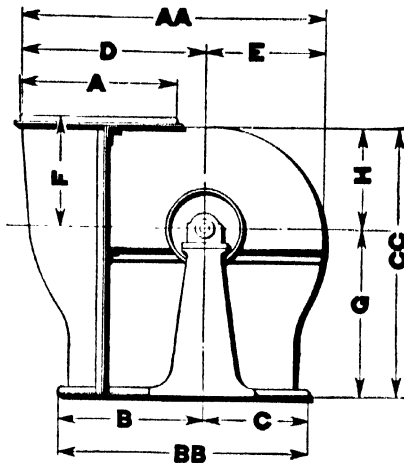
## Supervane Fan—Design 1

Single Width

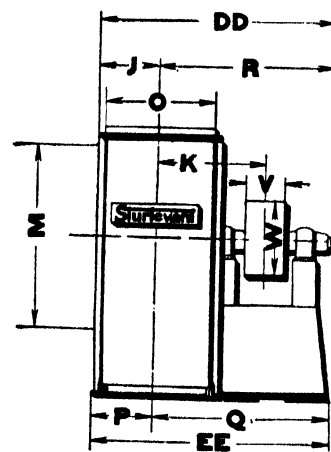
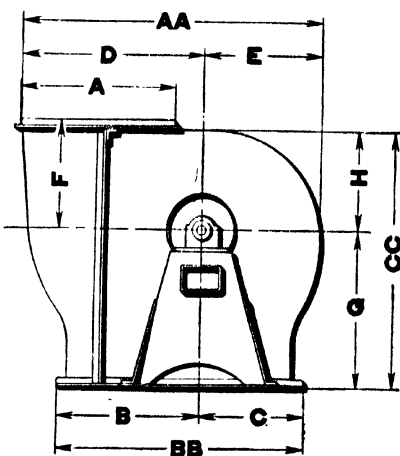
Full Housing

Up Blast Discharge

Overhung Wheel



| Size | A  | B  | C  | D  | E  | F  | G  | H  | J  | K  | M  | O  | P  | Q  | R  | V  | W  | AA | BB | CC | DD | EE | Extreme Wheel Diameter | Shaft Diameter | Anchor Bolts |        |
|------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|------------------------|----------------|--------------|--------|
|      |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |                        |                | Fan          | Hanger |
| A    | 13 | 13 | 9  | 15 | 10 | 9  | 18 | 8  | 5  | 12 | 15 | 9  | 6  | 21 | 21 | 4  | 7  | 26 | 23 | 27 | 27 | 27 | 11                     | 1              | 1            | 1      |
| B    | 16 | 15 | 11 | 19 | 12 | 12 | 22 | 10 | 7  | 11 | 19 | 11 | 7  | 23 | 24 | 4  | 8  | 32 | 27 | 32 | 31 | 31 | 17                     | 1              | 1            | 1      |
| C    | 19 | 18 | 13 | 23 | 15 | 13 | 25 | 12 | 8  | 16 | 22 | 13 | 9  | 25 | 26 | 5  | 9  | 38 | 32 | 37 | 34 | 35 | 20                     | 1              | 1            | 1      |
| D    | 22 | 21 | 15 | 26 | 17 | 16 | 30 | 14 | 9  | 19 | 26 | 15 | 10 | 31 | 31 | 5  | 10 | 43 | 37 | 44 | 41 | 42 | 21                     | 1              | 1            | 1      |
| E    | 25 | 24 | 17 | 30 | 19 | 18 | 32 | 16 | 10 | 20 | 29 | 18 | 11 | 33 | 33 | 6  | 11 | 49 | 41 | 49 | 44 | 45 | 27                     | 1              | 1            | 1      |
| F    | 28 | 26 | 19 | 33 | 22 | 20 | 35 | 18 | 11 | 22 | 33 | 20 | 12 | 36 | 36 | 7  | 12 | 55 | 45 | 54 | 48 | 49 | 30                     | 1              | 1            | 1      |
| G    | 32 | 30 | 21 | 38 | 25 | 22 | 40 | 20 | 13 | 25 | 37 | 22 | 13 | 41 | 41 | 8  | 14 | 63 | 51 | 62 | 54 | 55 | 35                     | 2              | 1            | 1      |
| H    | 36 | 34 | 24 | 43 | 28 | 25 | 45 | 23 | 14 | 28 | 42 | 25 | 16 | 46 | 46 | 9  | 16 | 71 | 59 | 71 | 61 | 62 | 39                     | 2              | 1            | 1      |
| J    | 40 | 38 | 27 | 48 | 31 | 27 | 55 | 25 | 16 | 31 | 46 | 28 | 17 | 50 | 50 | 10 | 18 | 79 | 65 | 80 | 66 | 68 | 43                     | 2              | 1            | 1      |
| K    | 46 | 43 | 30 | 55 | 36 | 32 | 61 | 29 | 18 | 34 | 54 | 32 | 19 | 56 | 56 | 11 | 20 | 91 | 74 | 91 | 74 | 75 | 50                     | 2              | 1            | 1      |



| Size | A  | B  | C  | D   | E  | F  | G  | H  | J  | K  | M  | O  | P  | Q  | R  | V  | W  | AA  | BB  | CC  | DD  | EE  | Extreme Wheel Diameter | Shaft Diameter | Anchor Bolts |        |
|------|----|----|----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|------------------------|----------------|--------------|--------|
|      |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |    |     |     |     |     |     |                        |                | Fan          | Hanger |
| L    | 52 | 49 | 35 | 62  | 40 | 36 | 51 | 33 | 20 | 33 | 61 | 36 | 22 | 50 | 51 | 12 | 22 | 102 | 84  | 85  | 71  | 72  | 56                     | 2              | 1            | 1      |
| M    | 58 | 54 | 38 | 69  | 45 | 40 | 57 | 37 | 22 | 36 | 68 | 40 | 24 | 55 | 56 | 12 | 24 | 115 | 93  | 95  | 78  | 80  | 63                     | 3              | 1            | 1      |
| N    | 64 | 60 | 46 | 77  | 50 | 43 | 64 | 41 | 24 | 39 | 75 | 45 | 27 | 58 | 59 | 13 | 28 | 127 | 106 | 105 | 81  | 85  | 69                     | 3              | 1            | 1      |
| P    | 70 | 65 | 50 | 84  | 54 | 48 | 69 | 45 | 26 | 42 | 82 | 49 | 29 | 63 | 65 | 13 | 32 | 138 | 115 | 114 | 92  | 93  | 76                     | 3              | 1            | 1      |
| Q    | 76 | 72 | 55 | 91  | 59 | 52 | 75 | 49 | 29 | 46 | 89 | 53 | 32 | 69 | 71 | 14 | 36 | 150 | 127 | 124 | 100 | 102 | 82                     | 4              | 1            | 1      |
| R    | 84 | 78 | 60 | 101 | 65 | 57 | 82 | 54 | 32 | 49 | 98 | 59 | 35 | 72 | 74 | 14 | 42 | 166 | 138 | 137 | 106 | 107 | 91                     | 4              | 1            | 1      |

Single Inlet

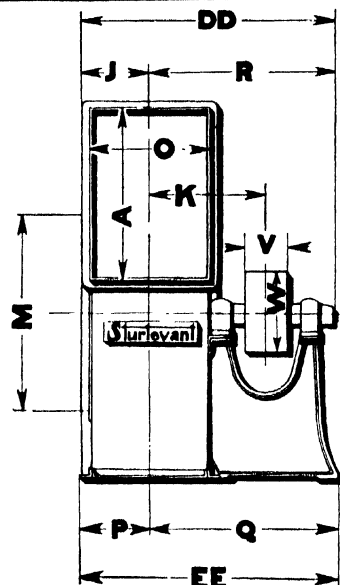
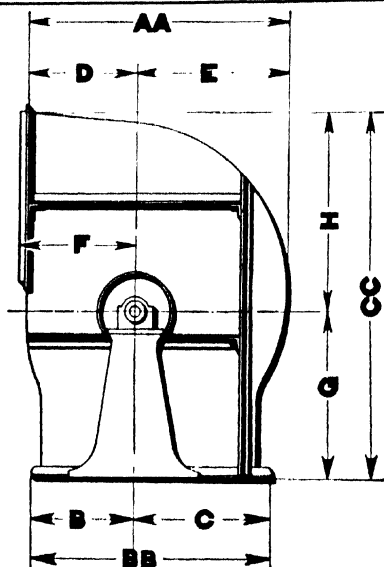
## Supervane Fan—Design 1

Single Width

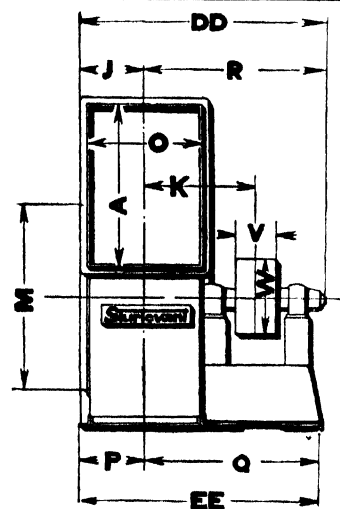
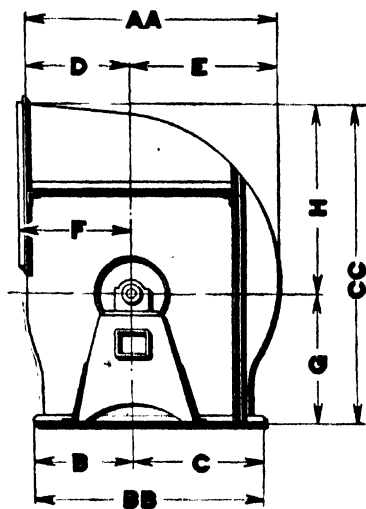
Full Housing

Top Horizontal Discharge

Overhung Wheel



| Fan Size | A   | B   | C   | D   | E   | F   | G   | H   | J   | K   | M   | O   | P   | Q   | R   | V  | W  | AA  | BB  | CC  | DD  | EE  | Wheel Dia. | Shaft Dia. | Anchor Bolts Fan | Anchor Bolts Hanger |
|----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|-----|-----|-----|-----|-----|------------|------------|------------------|---------------------|
| A        | 13½ | 8½  | 11½ | 8½  | 12½ | 9½  | 14  | 15½ | 5½  | 12½ | 15½ | 9½  | 6½  | 21½ | 21½ | 4  | 7  | 20½ | 19½ | 29½ | 27½ | 27½ | 14½        | 1½         | 1                | 1                   |
| B        | 16½ | 10  | 13½ | 10½ | 15½ | 12  | 16½ | 19½ | 7   | 14½ | 19½ | 11½ | 7½  | 23½ | 21½ | 4  | 8  | 25½ | 23½ | 35½ | 31½ | 31½ | 17½        | 1½         | 1                | 1                   |
| C        | 19½ | 12  | 15½ | 12½ | 17½ | 13½ | 18½ | 23  | 8½  | 16½ | 22½ | 13½ | 9½  | 25½ | 26½ | 5  | 9  | 30½ | 27½ | 41½ | 34½ | 35  | 20½        | 1½         | 1                | 1                   |
| D        | 22½ | 13½ | 18  | 11½ | 20½ | 16½ | 20½ | 26½ | 9½  | 19  | 26  | 15½ | 10½ | 31½ | 31½ | 5  | 10 | 35  | 31½ | 47½ | 41½ | 42  | 21½        | 1½         | 1                | 1                   |
| E        | 25½ | 15  | 20½ | 16½ | 23½ | 18½ | 23½ | 30½ | 10½ | 20½ | 29½ | 18  | 11½ | 33½ | 33½ | 6  | 11 | 39½ | 35½ | 53½ | 44  | 45½ | 27½        | 1½         | 1                | 1                   |
| F        | 28½ | 16½ | 22½ | 18½ | 26½ | 20½ | 25½ | 33½ | 11½ | 22½ | 33  | 20  | 12½ | 36½ | 36½ | 7  | 12 | 41½ | 38½ | 59½ | 48½ | 49½ | 30½        | 1½         | 1                | 1                   |
| G        | 32½ | 18  | 24½ | 20½ | 30  | 22½ | 30½ | 38½ | 13½ | 25½ | 37½ | 22½ | 13½ | 41½ | 41½ | 8  | 14 | 50½ | 42½ | 69½ | 54½ | 55  | 35         | 2½         | 1                | 1                   |
| H        | 36½ | 21  | 28  | 23½ | 33½ | 25½ | 35½ | 43½ | 14½ | 28½ | 42½ | 25½ | 16½ | 46½ | 46½ | 9  | 16 | 57½ | 49  | 78½ | 61½ | 62½ | 39½        | 2½         | 1                | 1                   |
| J        | 40½ | 23  | 30½ | 25½ | 37½ | 27½ | 40½ | 48½ | 16  | 31  | 46½ | 28½ | 17½ | 50½ | 50½ | 10 | 18 | 63½ | 53½ | 89  | 66½ | 68  | 43½        | 2½         | 1                | 1                   |
| K        | 46½ | 25½ | 31½ | 29½ | 43½ | 32½ | 45½ | 55½ | 18½ | 34½ | 54  | 32½ | 19½ | 56½ | 56½ | 11 | 20 | 72½ | 59½ | 101 | 74½ | 75½ | 50½        | 2½         | 1                | 1                   |



| Fan Size | A   | B   | C   | D   | E   | F   | G   | H    | J   | K   | M   | O   | P   | Q   | R   | V  | W  | AA   | BB   | CC   | DD   | EE   | Extreme Wheel Dia. | Shaft Diameter | Anchor Bolts Fan | Anchor Bolts Hanger |
|----------|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|----|----|------|------|------|------|------|--------------------|----------------|------------------|---------------------|
| L        | 52½ | 29½ | 38½ | 33½ | 48½ | 36½ | 43½ | 62½  | 20½ | 33½ | 61  | 36½ | 22½ | 50  | 51½ | 12 | 22 | 82½  | 68½  | 106½ | 71½  | 72½  | 56½                | 2½             | 1                | 1                   |
| M        | 58½ | 32½ | 42½ | 37½ | 54½ | 40  | 48½ | 69½  | 22½ | 36½ | 68  | 40½ | 24½ | 55½ | 56½ | 12 | 21 | 91½  | 75½  | 118½ | 78½  | 80½  | 63½                | 3½             | 1                | 1                   |
| N        | 64½ | 46½ | 46½ | 41½ | 59½ | 43½ | 54  | 77½  | 24½ | 39½ | 75  | 45½ | 27½ | 58½ | 59½ | 13 | 28 | 101½ | 93½  | 131½ | 84½  | 85½  | 69½                | 3½             | 1                | 1                   |
| P        | 70½ | 50½ | 50½ | 45½ | 65½ | 48½ | 58½ | 84½  | 26½ | 42½ | 82  | 49½ | 29½ | 63½ | 65½ | 13 | 32 | 110½ | 100½ | 143  | 92   | 93½  | 76                 | 3½             | 1                | 1                   |
| Q        | 76½ | 55½ | 55½ | 49½ | 71½ | 52½ | 63½ | 91½  | 29  | 46½ | 89  | 53½ | 32½ | 69½ | 71½ | 14 | 36 | 120½ | 110½ | 155  | 100½ | 102  | 82½                | 4½             | 1                | 1                   |
| R        | 84½ | 60½ | 60½ | 54½ | 78½ | 57½ | 69½ | 101½ | 32½ | 49½ | 98½ | 59  | 35½ | 72½ | 74  | 14 | 42 | 132½ | 120½ | 170½ | 106½ | 107½ | 91½                | 4½             | 1                | 1                   |

Single Inlet

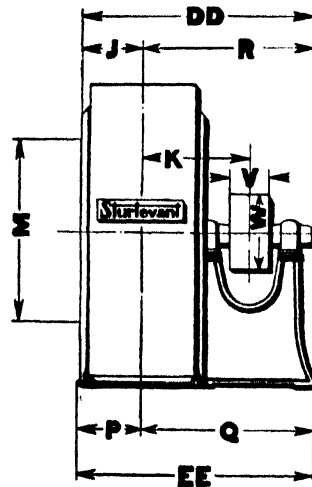
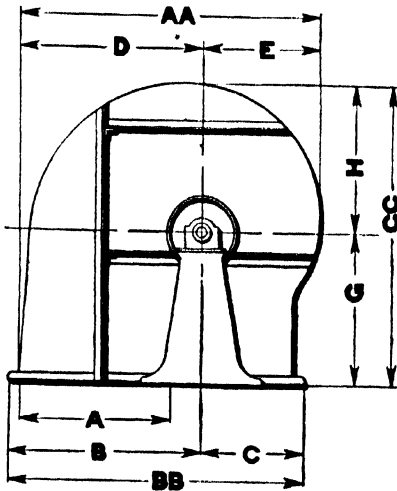
## Supervane Fan—Design 1

Single Width

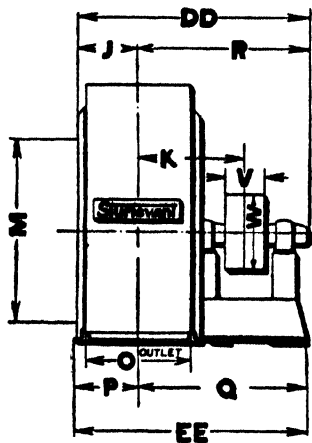
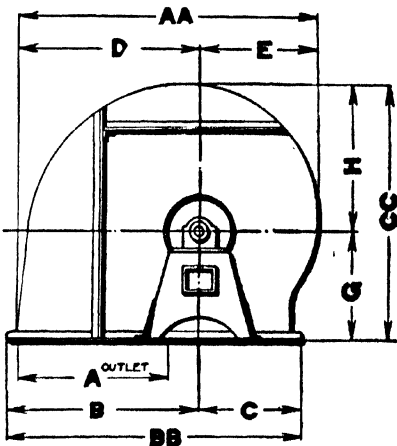
Full Housing

Down Blast Discharge

Overhung Wheel



| Size | A  | B  | C  | D  | E  | G  | H  | J  | K  | M  | O  | P  | Q  | R  | V  | W  | AA | BB | CC | DD | EE | Wheel Diameter | Shaft Diameter | Anchor Bolts Fan | Anchor Bolts Hanger |
|------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----------------|----------------|------------------|---------------------|
| A    | 13 | 18 | 9  | 15 | 10 | 14 | 12 | 5  | 12 | 15 | 9  | 6  | 21 | 21 | 4  | 7  | 26 | 27 | 26 | 27 | 27 | 14             | 1              |                  |                     |
| B    | 16 | 21 | 11 | 19 | 12 | 16 | 15 | 7  | 14 | 19 | 11 | 7  | 23 | 24 | 4  | 8  | 32 | 33 | 31 | 31 | 31 | 17             | 1              |                  |                     |
| C    | 19 | 25 | 13 | 23 | 15 | 18 | 17 | 8  | 16 | 22 | 13 | 9  | 25 | 26 | 5  | 9  | 38 | 39 | 36 | 34 | 35 | 20             | 1              |                  |                     |
| D    | 22 | 29 | 15 | 26 | 17 | 20 | 20 | 9  | 19 | 26 | 15 | 10 | 31 | 31 | 5  | 10 | 43 | 45 | 41 | 41 | 42 | 24             | 1              |                  |                     |
| E    | 25 | 33 | 17 | 30 | 19 | 23 | 23 | 10 | 20 | 29 | 17 | 11 | 33 | 33 | 6  | 11 | 49 | 50 | 47 | 44 | 45 | 27             | 1              |                  |                     |
| F    | 28 | 36 | 19 | 33 | 22 | 25 | 26 | 11 | 22 | 33 | 19 | 12 | 36 | 36 | 7  | 12 | 55 | 55 | 51 | 48 | 49 | 30             | 1              |                  |                     |
| G    | 32 | 41 | 21 | 38 | 25 | 30 | 30 | 13 | 25 | 37 | 22 | 13 | 41 | 41 | 8  | 14 | 63 | 63 | 60 | 54 | 55 | 35             | 2              |                  |                     |
| H    | 36 | 47 | 24 | 43 | 28 | 35 | 33 | 14 | 28 | 42 | 25 | 16 | 46 | 46 | 9  | 16 | 71 | 72 | 69 | 61 | 62 | 39             | 2              |                  |                     |
| J    | 40 | 52 | 27 | 48 | 31 | 40 | 37 | 16 | 31 | 46 | 27 | 17 | 50 | 50 | 10 | 18 | 79 | 79 | 78 | 66 | 68 | 43             | 2              |                  | 1                   |
| K    | 46 | 60 | 30 | 55 | 36 | 45 | 43 | 18 | 34 | 54 | 31 | 19 | 56 | 56 | 11 | 20 | 91 | 90 | 88 | 74 | 75 | 50             | 2              |                  | 1                   |



| Size | A  | B   | C  | D   | E  | G  | H  | J  | K  | M  | O  | P  | Q  | R  | V  | W  | AA  | BB  | CC  | DD  | EE  | Extreme Wheel Diameter | Shaft Diameter | Anchor Bolts Fan | Anchor Bolts Hanger |
|------|----|-----|----|-----|----|----|----|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|------------------------|----------------|------------------|---------------------|
| L    | 52 | 67  | 35 | 62  | 40 | 56 | 48 | 20 | 33 | 61 | 36 | 22 | 50 | 51 | 12 | 22 | 103 | 102 | 85  | 71  | 72  | 56                     | 2              |                  | 1                   |
| M    | 58 | 74  | 38 | 69  | 45 | 61 | 54 | 22 | 36 | 68 | 40 | 24 | 55 | 56 | 12 | 24 | 115 | 112 | 95  | 78  | 80  | 63                     | 3              |                  | 1                   |
| N    | 64 | 82  | 46 | 77  | 50 | 68 | 59 | 24 | 39 | 75 | 44 | 27 | 58 | 59 | 13 | 28 | 127 | 128 | 105 | 84  | 85  | 69                     | 3              |                  | 1                   |
| P    | 70 | 89  | 50 | 84  | 54 | 74 | 65 | 26 | 42 | 82 | 48 | 29 | 63 | 65 | 13 | 32 | 138 | 139 | 114 | 92  | 93  | 76                     | 3              |                  | 1                   |
| Q    | 76 | 97  | 55 | 91  | 59 | 81 | 71 | 29 | 46 | 89 | 52 | 32 | 69 | 71 | 14 | 36 | 150 | 152 | 124 | 100 | 102 | 82                     | 4              |                  | 1                   |
| R    | 84 | 107 | 60 | 101 | 65 | 88 | 78 | 32 | 49 | 98 | 58 | 35 | 72 | 74 | 14 | 42 | 166 | 167 | 136 | 106 | 107 | 91                     | 4              | 1                | 1                   |

Single Inlet

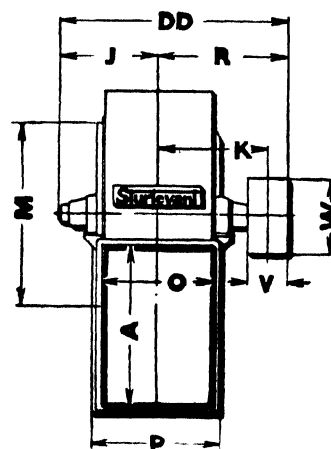
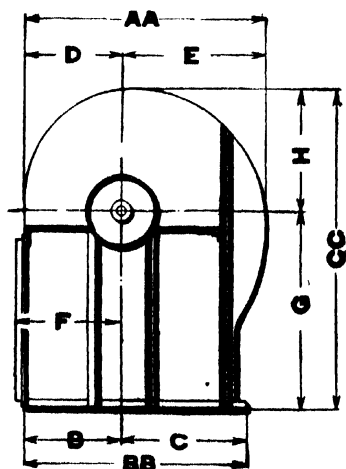
## Supervane Fan—Design 1

Single Width

Full Housing

Bottom Horizontal Discharge

Overhung Pulley



| Size | A  | B  | C  | D  | E  | F  | G   | H  | J  | K  | M  | O  | P  | R  | V  | W  | AA  | BB  | CC  | DD  | Extreme Wheel Diameter | Shaft Diameter | Anchor Bolts |
|------|----|----|----|----|----|----|-----|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|------------------------|----------------|--------------|
| F    | 28 | 18 | 22 | 18 | 26 | 20 | 36  | 22 | 18 | 19 | 33 | 20 | 24 | 22 | 7  | 12 | 44  | 40  | 58  | 41  | 30                     | 1 1/8          | 3            |
| G    | 32 | 20 | 24 | 20 | 30 | 22 | 41  | 25 | 20 | 21 | 37 | 22 | 27 | 25 | 8  | 14 | 50  | 45  | 66  | 46  | 35                     | 2 1/8          | 4            |
| H    | 36 | 23 | 28 | 23 | 33 | 25 | 46  | 28 | 22 | 24 | 42 | 25 | 32 | 28 | 9  | 16 | 57  | 51  | 74  | 51  | 39                     | 2 3/8          | 5            |
| J    | 40 | 25 | 30 | 25 | 37 | 27 | 50  | 31 | 25 | 26 | 46 | 28 | 35 | 31 | 10 | 18 | 63  | 56  | 82  | 56  | 43                     | 2 1/2          | 6            |
| K    | 46 | 29 | 34 | 29 | 43 | 32 | 58  | 36 | 28 | 29 | 54 | 32 | 39 | 35 | 11 | 20 | 72  | 64  | 94  | 63  | 50                     | 2 3/4          | 7            |
| L    | 52 | 33 | 38 | 33 | 48 | 36 | 65  | 40 | 30 | 31 | 61 | 36 | 45 | 37 | 12 | 22 | 82  | 72  | 106 | 67  | 56                     | 3 1/8          | 8            |
| M    | 58 | 37 | 42 | 37 | 54 | 40 | 73  | 45 | 33 | 35 | 68 | 40 | 49 | 41 | 12 | 24 | 91  | 80  | 118 | 74  | 63                     | 3 1/4          | 9            |
| N    | 64 | 41 | 46 | 41 | 59 | 43 | 81  | 50 | 35 | 37 | 75 | 45 | 54 | 44 | 13 | 28 | 101 | 88  | 131 | 80  | 69                     | 3 3/8          | 10           |
| P    | 70 | 45 | 50 | 45 | 65 | 48 | 88  | 54 | 39 | 41 | 82 | 49 | 58 | 47 | 13 | 32 | 110 | 95  | 142 | 87  | 76                     | 3 1/2          | 11           |
| Q    | 76 | 49 | 55 | 49 | 71 | 52 | 95  | 59 | 43 | 45 | 89 | 53 | 64 | 52 | 14 | 36 | 120 | 104 | 154 | 95  | 82                     | 4              | 12           |
| R    | 81 | 51 | 60 | 51 | 78 | 57 | 105 | 65 | 45 | 47 | 98 | 59 | 70 | 54 | 14 | 42 | 132 | 114 | 170 | 100 | 91                     | 4 1/2          | 1            |

Single Inlet

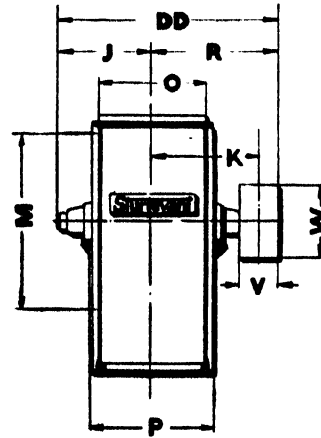
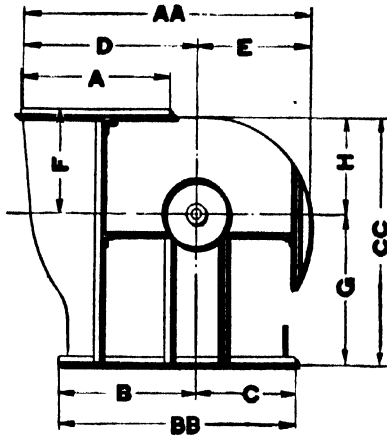
## Supervane Fan—Design 1

Single Width

Full Housing

Up Blast Discharge

Overhung Pulley



| Size | A   | B   | C   | D    | E   | F   | G   | H   | J   | K   | M   | O   | P   | R   | V  | W  | AA   | BB   | CC   | DD   | Extreme Wheel Diameter | Shaft Diameter | Anchor Bolts |
|------|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|------|------|------|------|------------------------|----------------|--------------|
| F    | 28½ | 26½ | 19  | 33½  | 22  | 20½ | 28½ | 18½ | 18½ | 19½ | 33  | 20  | 24½ | 22½ | 7  | 12 | 55½  | 45½  | 46½  | 41½  | 30½                    | 1½             | ¾            |
| G    | 32½ | 30  | 21½ | 38½  | 25½ | 22½ | 32½ | 20½ | 20½ | 21½ | 37½ | 22½ | 27½ | 25½ | 8  | 14 | 63½  | 51½  | 53½  | 46½  | 35                     | 2½             | ¾            |
| H    | 36½ | 34½ | 24½ | 43½  | 28½ | 25½ | 36½ | 23½ | 22½ | 24½ | 42½ | 25½ | 32½ | 28½ | 9  | 16 | 71½  | 59½  | 59½  | 51½  | 39½                    | 2½             | ¾            |
| J    | 40½ | 38½ | 27  | 48½  | 31½ | 27½ | 40  | 25½ | 25  | 26½ | 46½ | 28½ | 35  | 31½ | 10 | 18 | 79½  | 65½  | 65½  | 56½  | 43½                    | 2½             | ¾            |
| K    | 46½ | 43½ | 30½ | 55½  | 36  | 32½ | 45½ | 29½ | 28  | 29½ | 54  | 32½ | 39½ | 35½ | 11 | 20 | 91½  | 74   | 75½  | 63½  | 50½                    | 2½             | ¾            |
| L    | 52½ | 49½ | 35  | 62½  | 40½ | 36½ | 51½ | 33½ | 30  | 31½ | 61  | 36½ | 45½ | 37½ | 12 | 22 | 103½ | 84½  | 85½  | 67½  | 56½                    | 2½             | ¾            |
| M    | 58½ | 54½ | 38½ | 69½  | 45½ | 40  | 57½ | 37½ | 33½ | 35½ | 68  | 40½ | 49½ | 41½ | 12 | 24 | 115½ | 93   | 95½  | 74½  | 63½                    | 3½             | ¾            |
| N    | 64½ | 60  | 46½ | 77½  | 50  | 43½ | 64  | 41½ | 35½ | 37½ | 75  | 45½ | 54½ | 44½ | 13 | 28 | 127½ | 106½ | 105½ | 80   | 69½                    | 3½             | ¾            |
| P    | 70½ | 65  | 50½ | 84½  | 54½ | 48½ | 69½ | 45½ | 39½ | 41½ | 82  | 49½ | 58½ | 47½ | 13 | 32 | 138½ | 115½ | 114½ | 87½  | 76                     | 3½             | ¾            |
| Q    | 76½ | 72  | 55½ | 91½  | 59½ | 52½ | 75½ | 49½ | 43  | 45  | 89  | 53½ | 64½ | 52  | 14 | 36 | 150½ | 127½ | 124½ | 95   | 82½                    | 4½             | ¾            |
| R    | 84½ | 78  | 60½ | 101½ | 65½ | 57½ | 82½ | 54½ | 45½ | 47½ | 99½ | 59  | 70½ | 54½ | 14 | 42 | 166½ | 138½ | 137  | 100½ | 91½                    | 4½             | 1            |

Single Inlet

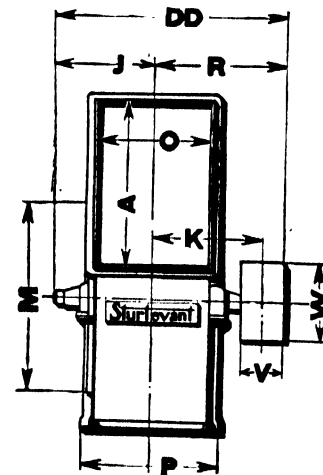
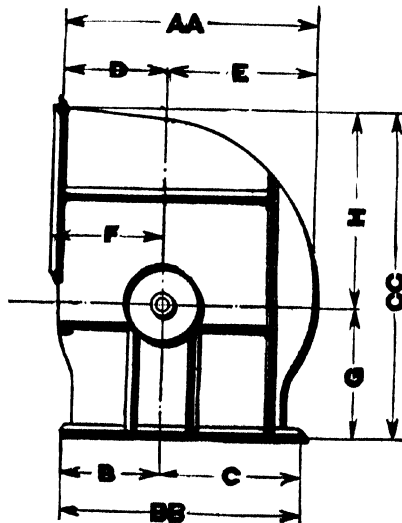
## Supervane Fan—Design 1

Single Width

Full Housing

Top Horizontal Discharge

Overhung Pulley



| Size | A   | B   | C   | D   | E   | F   | G   | H    | J   | K   | M   | O   | P   | R   | V  | W  | AA   | BB   | CC   | DD   | Extreme Wheel Diameter | Shaft Diameter | Anchor Bolts |
|------|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|----|----|------|------|------|------|------------------------|----------------|--------------|
| F    | 28½ | 16½ | 22½ | 18½ | 26½ | 20½ | 22½ | 33½  | 18½ | 19½ | 33  | 20  | 24½ | 22½ | 7  | 12 | 44½  | 38½  | 56½  | 41   | 30½                    | 1½             | 2            |
| G    | 32½ | 18½ | 24½ | 20½ | 30½ | 22½ | 27½ | 38½  | 20½ | 21½ | 37½ | 22½ | 27½ | 25½ | 8  | 14 | 50½  | 42½  | 66½  | 46½  | 35                     | 2½             | 2            |
| H    | 36½ | 21½ | 28½ | 23½ | 33½ | 25½ | 30½ | 43½  | 22½ | 24½ | 42½ | 25½ | 32½ | 28½ | 9  | 16 | 57½  | 49½  | 74½  | 51½  | 39½                    | 2½             | 2            |
| J    | 40½ | 23½ | 30½ | 25½ | 37½ | 27½ | 34½ | 48½  | 25½ | 26½ | 46½ | 28½ | 35½ | 31½ | 10 | 18 | 63½  | 53½  | 82½  | 56½  | 43½                    | 2½             | 2            |
| K    | 46½ | 25½ | 34½ | 29½ | 43½ | 32½ | 38½ | 55½  | 28½ | 29½ | 54½ | 32½ | 39½ | 35½ | 11 | 20 | 72½  | 59½  | 94½  | 63½  | 50½                    | 2½             | 2            |
| L    | 52½ | 29½ | 38½ | 33½ | 48½ | 36½ | 43½ | 62½  | 30½ | 31½ | 61½ | 36½ | 45½ | 37½ | 12 | 22 | 82½  | 68½  | 106½ | 67½  | 56½                    | 2½             | 2            |
| M    | 58½ | 32½ | 42½ | 37½ | 54½ | 40½ | 48½ | 69½  | 33½ | 35½ | 68½ | 40½ | 49½ | 41½ | 12 | 24 | 91½  | 75½  | 118½ | 74½  | 63½                    | 3½             | 2            |
| N    | 64½ | 46½ | 46½ | 41½ | 59½ | 43½ | 54½ | 77½  | 35½ | 37½ | 75½ | 45½ | 54½ | 44½ | 13 | 28 | 101½ | 93½  | 131½ | 80   | 69½                    | 3½             | 2            |
| P    | 70½ | 50½ | 50½ | 45½ | 65½ | 48½ | 58½ | 84½  | 39½ | 41½ | 82½ | 49½ | 58½ | 47½ | 13 | 32 | 110½ | 100½ | 143½ | 87½  | 76                     | 3½             | 2            |
| Q    | 76½ | 55½ | 55½ | 49½ | 71½ | 52½ | 63½ | 91½  | 43½ | 45½ | 89½ | 53½ | 64½ | 52½ | 14 | 36 | 120½ | 110½ | 155½ | 95   | 82½                    | 4½             | 2            |
| R    | 84½ | 60½ | 60½ | 54½ | 78½ | 57½ | 69½ | 101½ | 45½ | 47½ | 98½ | 59½ | 70½ | 54½ | 14 | 42 | 132½ | 120½ | 170½ | 100½ | 91½                    | 4½             | 1            |

Single Inlet

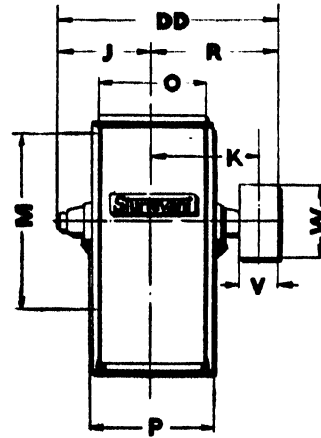
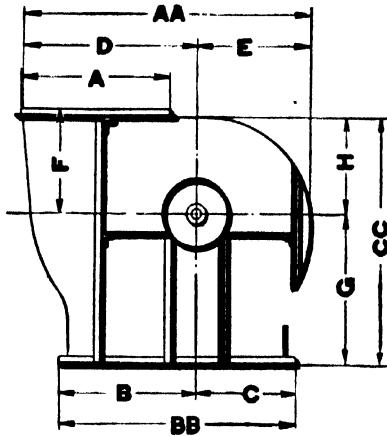
## Supervane Fan—Design 1

Single Width

Full Housing

Up Blast Discharge

Overhung Pulley



| Size | A   | B   | C   | D    | E   | F   | G   | H   | J   | K   | M   | O   | P   | R   | V  | W  | AA   | BB   | CC   | DD   | Extreme Wheel Diameter | Shaft Diameter | Anchor Bolts |
|------|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|------|------|------|------|------------------------|----------------|--------------|
| F    | 28½ | 26½ | 19  | 33½  | 22  | 20½ | 28½ | 18½ | 18½ | 19½ | 33  | 20  | 24½ | 22½ | 7  | 12 | 55½  | 45½  | 46½  | 41½  | 30½                    | 1½             | ¾            |
| G    | 32½ | 30  | 21½ | 38½  | 25½ | 22½ | 32½ | 20½ | 20½ | 21½ | 37½ | 22½ | 27½ | 25½ | 8  | 14 | 63½  | 51½  | 53½  | 46½  | 35                     | 2½             | ¾            |
| H    | 36½ | 34½ | 24½ | 43½  | 28½ | 25½ | 36½ | 23½ | 22½ | 24½ | 42½ | 25½ | 32½ | 28½ | 9  | 16 | 71½  | 59½  | 59½  | 51½  | 39½                    | 2½             | ¾            |
| J    | 40½ | 38½ | 27  | 48½  | 31½ | 27½ | 40  | 25½ | 25  | 26½ | 46½ | 28½ | 35  | 31½ | 10 | 18 | 79½  | 65½  | 65½  | 56½  | 43½                    | 2½             | ¾            |
| K    | 46½ | 43½ | 30½ | 55½  | 36  | 32½ | 45½ | 29½ | 28  | 29½ | 54  | 32½ | 39½ | 35½ | 11 | 20 | 91½  | 74   | 75½  | 63½  | 50½                    | 2½             | ¾            |
| L    | 52½ | 49½ | 35  | 62½  | 40½ | 36½ | 51½ | 33½ | 30  | 31½ | 61  | 36½ | 45½ | 37½ | 12 | 22 | 103½ | 84½  | 85½  | 67½  | 56½                    | 2½             | ¾            |
| M    | 58½ | 54½ | 38½ | 69½  | 45½ | 40  | 57½ | 37½ | 33½ | 35½ | 68  | 40½ | 49½ | 41½ | 12 | 24 | 115½ | 93   | 95½  | 74½  | 63½                    | 3½             | ¾            |
| N    | 64½ | 60  | 46½ | 77½  | 50  | 43½ | 64  | 41½ | 35½ | 37½ | 75  | 45½ | 54½ | 44½ | 13 | 28 | 127½ | 106½ | 105½ | 80   | 69½                    | 3½             | ¾            |
| P    | 70½ | 65  | 50½ | 84½  | 54½ | 48½ | 69½ | 45½ | 39½ | 41½ | 82  | 49½ | 58½ | 47½ | 13 | 32 | 138½ | 115½ | 114½ | 87½  | 76                     | 3½             | ¾            |
| Q    | 76½ | 72  | 55½ | 91½  | 59½ | 52½ | 75½ | 49½ | 43  | 45  | 89  | 53½ | 64½ | 52  | 14 | 36 | 150½ | 127½ | 124½ | 95   | 82½                    | 4½             | ¾            |
| R    | 84½ | 78  | 60½ | 101½ | 65½ | 57½ | 82½ | 54½ | 45½ | 47½ | 99½ | 59  | 70½ | 54½ | 14 | 42 | 166½ | 138½ | 137  | 100½ | 91½                    | 4½             | 1            |



Double Inlet

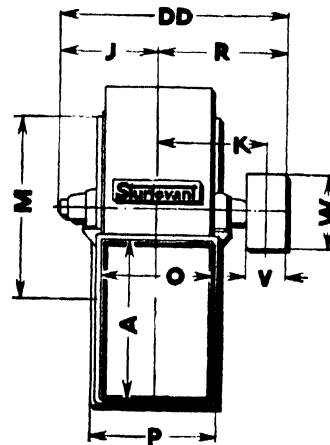
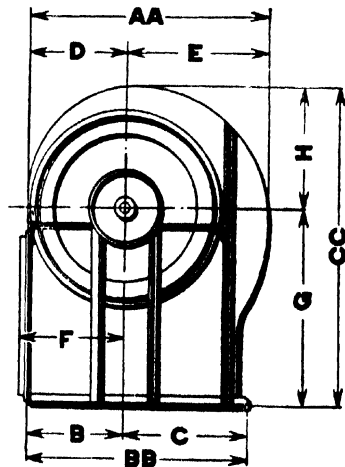
## Supervane Fan—Design 1

Single Width

Full Housing

Bottom Horizontal Discharge

Overhung Pulley



| Size | A   | B   | C   | D   | E   | F   | G    | H   | J   | K   | M   | O   | P   | R   | V  | W  | AA   | BB   | CC   | DD   | Extreme Wheel Diameter | Shaft Diameter | Anchor Bolts |
|------|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|----|----|------|------|------|------|------------------------|----------------|--------------|
| F    | 28½ | 18½ | 22½ | 18½ | 26½ | 20½ | 36½  | 22  | 18½ | 19½ | 33  | 20  | 24½ | 22½ | 7  | 12 | 44½  | 40½  | 58½  | 41   | 30½                    | 1½             | 1            |
| G    | 32½ | 20½ | 24½ | 20½ | 30  | 22½ | 41   | 25½ | 20½ | 21½ | 37½ | 22½ | 27½ | 25½ | 8  | 14 | 50½  | 45½  | 66½  | 46½  | 35                     | 2½             | 3            |
| H    | 36½ | 23½ | 28  | 23½ | 33½ | 25½ | 46   | 28½ | 22½ | 24½ | 42½ | 25½ | 32½ | 28½ | 9  | 16 | 57½  | 51½  | 74½  | 51½  | 39½                    | 2½             | 3            |
| J    | 40½ | 25½ | 30½ | 25½ | 37½ | 27½ | 50½  | 31½ | 25  | 26½ | 46½ | 28½ | 35  | 31½ | 10 | 18 | 63½  | 56½  | 82½  | 56½  | 43½                    | 2½             | 7            |
| K    | 46½ | 29½ | 34½ | 29½ | 43½ | 32½ | 58½  | 36  | 28  | 29½ | 54  | 32½ | 39½ | 35½ | 11 | 20 | 72½  | 64½  | 94½  | 63½  | 50½                    | 2½             | 7            |
| L    | 52½ | 33½ | 38½ | 33½ | 48½ | 36½ | 65½  | 40½ | 30  | 31½ | 61  | 36½ | 45½ | 37½ | 12 | 22 | 82½  | 72½  | 106½ | 67½  | 56½                    | 2½             | 7            |
| M    | 58½ | 37½ | 42½ | 37½ | 54½ | 40  | 73½  | 45½ | 33½ | 35½ | 68  | 40½ | 49½ | 41½ | 12 | 24 | 91½  | 80½  | 118½ | 74½  | 63½                    | 3½             | 7            |
| N    | 64½ | 41½ | 46½ | 41½ | 59½ | 43½ | 81½  | 50  | 35½ | 37½ | 75  | 45½ | 54½ | 41½ | 13 | 28 | 101½ | 88½  | 131½ | 80   | 69½                    | 3½             | 7            |
| P    | 70½ | 45½ | 50½ | 45½ | 65½ | 48½ | 88½  | 51½ | 39½ | 41½ | 82  | 49½ | 58½ | 47½ | 13 | 32 | 110½ | 95½  | 142½ | 87½  | 76                     | 3½             | 7            |
| Q    | 76½ | 49½ | 55½ | 49½ | 71½ | 52½ | 95½  | 59½ | 43  | 45  | 89  | 53½ | 64½ | 52  | 14 | 36 | 120½ | 104½ | 154½ | 95   | 82½                    | 4½             | 7            |
| R    | 84½ | 51½ | 60½ | 54½ | 78½ | 57½ | 105½ | 65½ | 45½ | 47½ | 98½ | 59  | 70½ | 54½ | 14 | 42 | 132½ | 114½ | 170½ | 100½ | 91½                    | 4½             | 1            |

Double Inlet

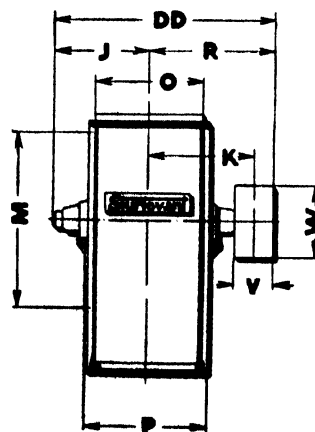
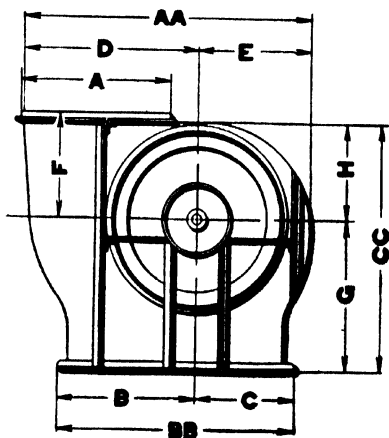
## Supervane Fan—Design 1

Single Width

Full Housing

Up Blast Discharge

Overhung Pulley



| Size | A   | B   | C   | D    | E   | F   | G   | H   | J   | K   | L   | M   | O   | P   | R  | V  | AA   | BB   | CC   | DD   | Extreme Wheel Diameter | Shaft Diameter | Anchor Bolts |
|------|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|------|------|------|------|------------------------|----------------|--------------|
| F    | 28½ | 26½ | 19  | 33½  | 22  | 20½ | 28½ | 18½ | 18½ | 19½ | 33  | 20  | 24½ | 22½ | 7  | 12 | 55½  | 45½  | 46½  | 41   | 30½                    | 1½             | 1            |
| G    | 32½ | 30  | 21½ | 38½  | 25½ | 22½ | 32½ | 20½ | 20½ | 21½ | 37½ | 22½ | 27½ | 25½ | 8  | 14 | 63½  | 51½  | 53½  | 46½  | 35                     | 2½             | 1            |
| H    | 36½ | 34½ | 24½ | 43½  | 28½ | 25½ | 36½ | 23½ | 22½ | 24½ | 42½ | 25½ | 32½ | 28½ | 9  | 16 | 71½  | 59   | 59½  | 51½  | 39½                    | 2½             | 1            |
| J    | 40½ | 38½ | 27  | 48½  | 31½ | 27½ | 40  | 25½ | 25  | 26½ | 46½ | 28½ | 35  | 31½ | 10 | 18 | 79½  | 65½  | 65½  | 56½  | 43½                    | 2½             | 1            |
| K    | 46½ | 43½ | 30½ | 55½  | 36  | 32½ | 45½ | 29½ | 28  | 29½ | 54  | 32½ | 39½ | 35½ | 11 | 20 | 91½  | 74   | 75½  | 63½  | 50½                    | 2½             | 1            |
| L    | 52½ | 49½ | 35  | 62½  | 40½ | 36½ | 51½ | 33½ | 30  | 31½ | 61  | 36½ | 45½ | 37½ | 12 | 22 | 103½ | 84½  | 85½  | 67½  | 56½                    | 2½             | 1            |
| M    | 58½ | 54½ | 38½ | 69½  | 45½ | 40  | 57½ | 37½ | 33½ | 35½ | 68  | 40½ | 49½ | 41½ | 12 | 24 | 115½ | 93   | 95½  | 74½  | 63½                    | 3½             | 1            |
| N    | 64½ | 60  | 46½ | 77½  | 50  | 43½ | 64  | 41½ | 35½ | 37½ | 75  | 45½ | 54½ | 44½ | 13 | 28 | 127½ | 106½ | 105½ | 80   | 69½                    | 3½             | 1            |
| P    | 70½ | 65  | 50½ | 84½  | 54½ | 48½ | 69½ | 45½ | 39½ | 41½ | 82  | 49½ | 58½ | 47½ | 13 | 32 | 138½ | 115½ | 114½ | 87½  | 76                     | 3½             | 1            |
| Q    | 76½ | 72  | 55½ | 91½  | 59½ | 52½ | 75½ | 49½ | 43  | 45  | 89  | 53½ | 64½ | 52  | 14 | 36 | 150½ | 127½ | 124½ | 95   | 82½                    | 4½             | 1            |
| R    | 81½ | 78  | 60½ | 101½ | 65½ | 57½ | 82½ | 54½ | 45½ | 47½ | 98½ | 59  | 70½ | 54½ | 14 | 42 | 166½ | 138½ | 137  | 100½ | 91½                    | 4½             | 1            |

Double Inlet

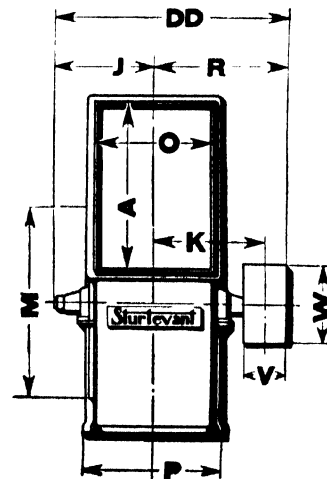
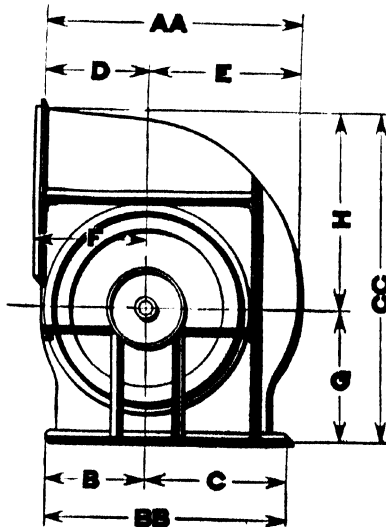
## Supervane Fan—Design 1

Single Width

Full Housing

Top Horizontal Discharge

Overhung Pulley



| Size | A   | B   | C   | D   | E   | F   | G   | H    | J   | K   | M   | O   | P   | R   | V  | W  | AA   | BB   | CC   | DD   | Extreme Wheel Diameter | Shaft Diameter | Anchor Bolts |
|------|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|----|----|------|------|------|------|------------------------|----------------|--------------|
| F    | 28½ | 16½ | 22½ | 18½ | 26½ | 20½ | 22½ | 33½  | 18½ | 19½ | 33  | 20  | 24½ | 22½ | 7  | 12 | 44½  | 38½  | 56½  | 41   | 30½                    | 1 11/16        | 1/4          |
| G    | 32½ | 18  | 24½ | 20½ | 30  | 22½ | 27½ | 38½  | 20½ | 21½ | 37½ | 22½ | 27½ | 25½ | 8  | 14 | 50½  | 42½  | 66½  | 46½  | 35                     | 2 1/8          | 3/8          |
| H    | 36½ | 21  | 28  | 23½ | 33½ | 25½ | 30½ | 43½  | 22½ | 24½ | 42½ | 25½ | 32½ | 28½ | 9  | 16 | 57½  | 49   | 74½  | 51½  | 39½                    | 2 1/8          | 3/8          |
| J    | 40½ | 23  | 30½ | 25½ | 37½ | 27½ | 34  | 48½  | 25  | 26½ | 46½ | 28½ | 35  | 31½ | 10 | 18 | 63½  | 53½  | 82½  | 56½  | 43½                    | 2 1/8          | 7/16         |
| K    | 46½ | 25½ | 31½ | 29½ | 43½ | 32½ | 38½ | 55½  | 28  | 29½ | 54  | 32½ | 39½ | 35½ | 11 | 20 | 72½  | 59½  | 91½  | 63½  | 50½                    | 2 1/8          | 7/16         |
| L    | 52½ | 29½ | 38½ | 33½ | 48½ | 36½ | 43½ | 62½  | 30  | 31½ | 61  | 36½ | 45½ | 37½ | 12 | 22 | 82½  | 68½  | 106½ | 67½  | 56½                    | 2 1/8          | 7/16         |
| M    | 58½ | 32½ | 42½ | 37½ | 54½ | 40  | 48½ | 69½  | 33½ | 35½ | 68  | 40½ | 49½ | 41½ | 12 | 24 | 91½  | 75½  | 118½ | 74½  | 63½                    | 3 1/8          | 7/16         |
| N    | 64½ | 36½ | 46½ | 41½ | 59½ | 43½ | 54  | 77½  | 35½ | 37½ | 75  | 45½ | 54½ | 44½ | 13 | 28 | 101½ | 93½  | 131½ | 80   | 69½                    | 3 1/8          | 7/16         |
| P    | 70½ | 50½ | 50½ | 45½ | 65½ | 48½ | 58½ | 84½  | 39½ | 41½ | 82  | 49½ | 58½ | 47½ | 13 | 32 | 110½ | 100½ | 143½ | 87½  | 76                     | 3 1/8          | 7/16         |
| Q    | 76½ | 55½ | 55½ | 49½ | 71½ | 52½ | 63½ | 91½  | 43  | 45  | 89  | 53½ | 64½ | 52  | 14 | 36 | 120½ | 110½ | 155½ | 95   | 82½                    | 4½             | 1            |
| R    | 81½ | 60½ | 60½ | 54½ | 78½ | 57½ | 69½ | 101½ | 45½ | 47½ | 98½ | 59  | 70½ | 54½ | 14 | 42 | 132½ | 120½ | 170½ | 100½ | 91½                    | 4½             | 1            |

Double Inlet

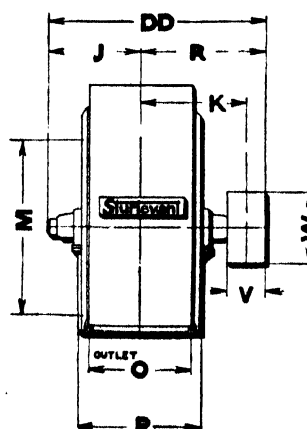
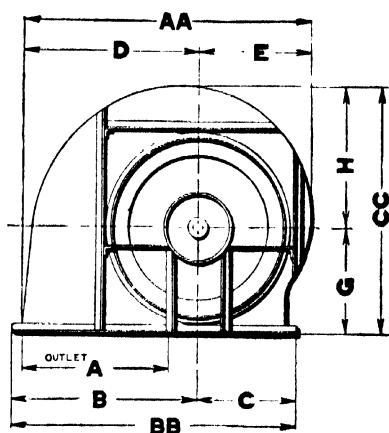
## Supervane Fan—Design 1

Single Width

Full Housing

Down Blast Discharge

Overhung Pulley



| Size | A  | B    | C   | D    | E   | G   | H   | J   | K   | M   | O   | P   | R   | V  | W  | AA   | BB   | CC   | DD   | Extreme Wheel Dia. | Shaft Dia. | Anchor Bolts |
|------|----|------|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|------|------|------|------|--------------------|------------|--------------|
| F    | 28 | 36½  | 19  | 33½  | 22  | 20½ | 26½ | 18½ | 19½ | 33  | 19½ | 24½ | 22½ | 7  | 12 | 55½  | 55½  | 46½  | 41½  | 30½                | 1½         | 2            |
| G    | 32 | 41½  | 21½ | 38½  | 25½ | 23½ | 30  | 20½ | 21½ | 37½ | 22½ | 27½ | 25½ | 8  | 14 | 63½  | 62½  | 53½  | 46½  | 35                 | 2½         | 2            |
| H    | 36 | 46½  | 24½ | 43½  | 28½ | 26½ | 33½ | 22½ | 24½ | 42½ | 25  | 32½ | 28½ | 9  | 16 | 71½  | 71½  | 59½  | 51½  | 39½                | 2½         | 2            |
| J    | 40 | 51½  | 27  | 48½  | 31½ | 28½ | 37½ | 25  | 26½ | 46½ | 27½ | 35  | 31½ | 10 | 18 | 79½  | 78½  | 66   | 56½  | 43½                | 2½         | 2            |
| K    | 46 | 59   | 30½ | 55½  | 36  | 32½ | 43½ | 28  | 29½ | 54  | 31½ | 39½ | 35½ | 11 | 20 | 91½  | 89½  | 75½  | 63½  | 50½                | 2½         | 2            |
| L    | 52 | 67½  | 35  | 62½  | 40½ | 36½ | 48½ | 30  | 31½ | 61  | 36  | 45½ | 37½ | 12 | 22 | 103½ | 102½ | 85½  | 67½  | 56½                | 2½         | 2            |
| M    | 58 | 74½  | 38½ | 69½  | 45½ | 41  | 54½ | 33½ | 35½ | 68  | 40½ | 49½ | 41½ | 12 | 24 | 115½ | 112½ | 95½  | 74½  | 63½                | 3½         | 2            |
| N    | 64 | 82½  | 46½ | 77½  | 50  | 45½ | 59½ | 35½ | 37½ | 75  | 44½ | 54½ | 44½ | 13 | 28 | 127½ | 128½ | 105½ | 80   | 69½                | 3½         | 2            |
| P    | 70 | 89½  | 50½ | 84½  | 51½ | 49½ | 65½ | 39½ | 41½ | 82  | 48½ | 58½ | 47½ | 13 | 32 | 138½ | 139½ | 114½ | 87½  | 76                 | 3½         | 2            |
| Q    | 76 | 97½  | 55½ | 91½  | 59½ | 53½ | 71½ | 43  | 45  | 89  | 52½ | 64½ | 52  | 14 | 36 | 150½ | 152½ | 124½ | 95   | 82½                | 4½         | 2            |
| R    | 84 | 107½ | 60½ | 101½ | 65½ | 58½ | 78½ | 45½ | 47½ | 98½ | 58½ | 70½ | 54½ | 14 | 42 | 166½ | 167½ | 136½ | 100½ | 91½                | 4½         | 1            |

Single Inlet

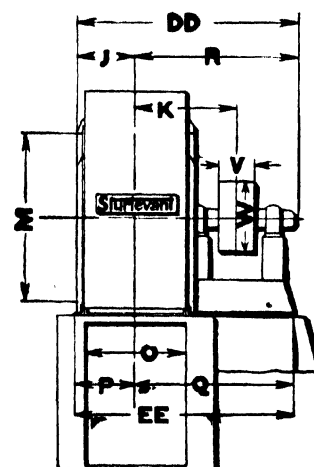
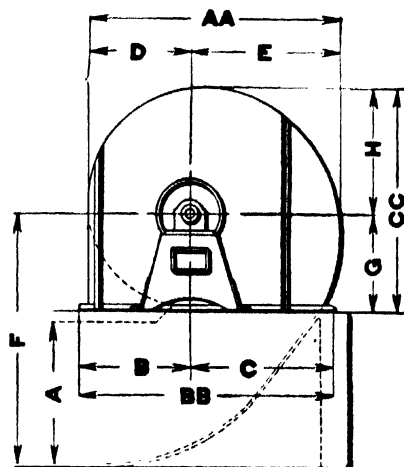
## Supervane Fan—Design 1

Single Width

 $\frac{7}{8}$  Housing

Bottom Horizontal Discharge

Overhung Wheel



| Fan Size | A  | B  | C  | D  | E  | F   | G  | H  | J  | K  | M  | O  | P  | Q  | R  | V  | W  | AA  | BB  | CC  | DD  | EE  | Extreme Wheel Diameter | Shaft Diameter | Anchor Bolts Fan | Bolts Hanger |
|----------|----|----|----|----|----|-----|----|----|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|------------------------|----------------|------------------|--------------|
| J        | 40 | 31 | 38 | 27 | 40 | 72  | 28 | 33 | 16 | 28 | 16 | 27 | 17 | 43 | 44 | 10 | 18 | 67  | 69  | 61  | 60  | 60  | 43                     | 2 1/8          | 7/8              | 1            |
| K        | 46 | 35 | 43 | 31 | 46 | 82  | 32 | 38 | 18 | 31 | 54 | 31 | 19 | 47 | 48 | 11 | 20 | 78  | 79  | 70  | 66  | 67  | 50                     | 2 1/8          | 7/8              | 1            |
| L        | 52 | 40 | 50 | 35 | 52 | 92  | 36 | 43 | 20 | 33 | 61 | 36 | 22 | 50 | 51 | 12 | 22 | 88  | 90  | 79  | 71  | 72  | 56                     | 2 1/8          | 7/8              | 1            |
| M        | 58 | 44 | 55 | 40 | 58 | 102 | 40 | 48 | 22 | 36 | 68 | 40 | 24 | 55 | 56 | 12 | 24 | 98  | 100 | 88  | 78  | 80  | 63                     | 3 1/8          | 7/8              | 1            |
| N        | 61 | 49 | 61 | 41 | 64 | 112 | 41 | 53 | 24 | 39 | 75 | 44 | 27 | 58 | 59 | 13 | 28 | 108 | 110 | 97  | 84  | 85  | 69                     | 3 1/8          | 7/8              | 1            |
| P        | 70 | 53 | 66 | 48 | 70 | 122 | 48 | 58 | 26 | 42 | 82 | 48 | 29 | 63 | 65 | 13 | 32 | 118 | 120 | 106 | 92  | 93  | 76                     | 3 1/8          | 7/8              | 1            |
| Q        | 76 | 58 | 73 | 52 | 76 | 131 | 51 | 63 | 29 | 46 | 89 | 52 | 32 | 69 | 71 | 14 | 36 | 128 | 131 | 114 | 100 | 102 | 82                     | 4 1/8          | 7/8              | 1 1/2        |
| R        | 84 | 63 | 80 | 57 | 84 | 141 | 56 | 69 | 32 | 49 | 98 | 58 | 35 | 72 | 74 | 14 | 42 | 142 | 143 | 126 | 106 | 107 | 91                     | 4 1/8          | 1                | 1 1/2        |

Single Inlet

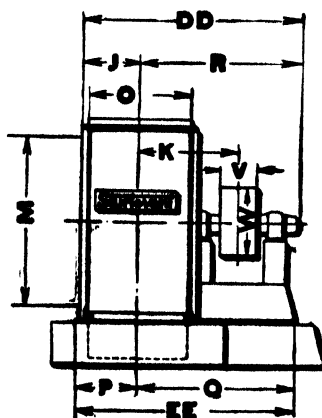
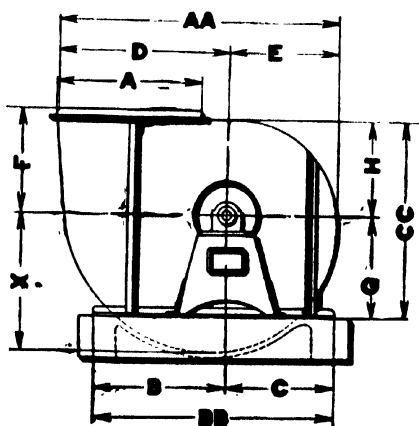
## Supervane Fan—Design 1

Single Width

 $\frac{7}{8}$  Housing

Up Blast Discharge

Overhung Wheel



| Size | A  | B  | C  | D   | E  | F  | G  | H  | J  | K  | M  | O  | P  | Q  | R  | V  | W  | X  | AA  | BB  | CC  | DD  | EE  | Extreme Wheel Dia. | Shaft Diameter | Anchor Fan | Bofts Hanger |
|------|----|----|----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|--------------------|----------------|------------|--------------|
| J    | 40 | 37 | 27 | 48  | 31 | 27 | 28 | 25 | 16 | 28 | 46 | 28 | 17 | 43 | 44 | 10 | 18 | 37 | 79  | 64  | 53  | 60  | 60  | 43                 | 2 1/4          | 1          | 1            |
| K    | 46 | 41 | 30 | 55  | 36 | 32 | 32 | 29 | 18 | 31 | 54 | 32 | 19 | 47 | 48 | 11 | 20 | 43 | 91  | 72  | 61  | 66  | 67  | 50                 | 2 1/4          | 1          | 1            |
| L    | 52 | 48 | 35 | 62  | 40 | 36 | 36 | 33 | 20 | 33 | 61 | 36 | 22 | 50 | 51 | 12 | 22 | 48 | 103 | 83  | 69  | 71  | 72  | 56                 | 2 1/4          | 1          | 1            |
| M    | 58 | 53 | 38 | 69  | 45 | 40 | 40 | 37 | 22 | 36 | 68 | 40 | 24 | 55 | 56 | 12 | 24 | 54 | 115 | 91  | 77  | 78  | 80  | 63                 | 3 1/4          | 1          | 1            |
| N    | 64 | 59 | 46 | 77  | 50 | 43 | 44 | 41 | 24 | 39 | 75 | 45 | 27 | 58 | 59 | 13 | 28 | 59 | 127 | 105 | 85  | 84  | 85  | 69                 | 3 1/4          | 1          | 1            |
| P    | 70 | 64 | 50 | 84  | 54 | 48 | 48 | 45 | 26 | 42 | 82 | 49 | 29 | 63 | 65 | 13 | 32 | 65 | 138 | 114 | 93  | 92  | 93  | 76                 | 3 1/4          | 1          | 1            |
| Q    | 76 | 70 | 55 | 91  | 59 | 52 | 51 | 49 | 29 | 46 | 89 | 53 | 32 | 69 | 71 | 14 | 36 | 71 | 150 | 126 | 100 | 100 | 102 | 82                 | 4              | 1          | 1 1/2        |
| R    | 84 | 77 | 60 | 101 | 65 | 57 | 56 | 54 | 32 | 49 | 98 | 59 | 35 | 72 | 74 | 14 | 42 | 78 | 166 | 137 | 110 | 106 | 107 | 91                 | 4              | 1          | 1 1/2        |

Single Inlet

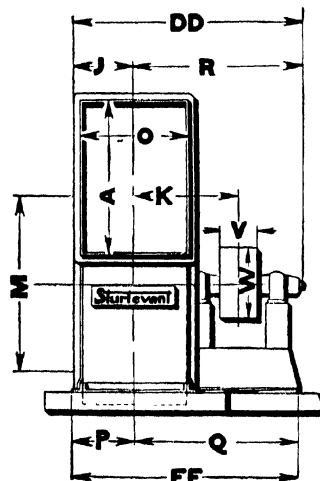
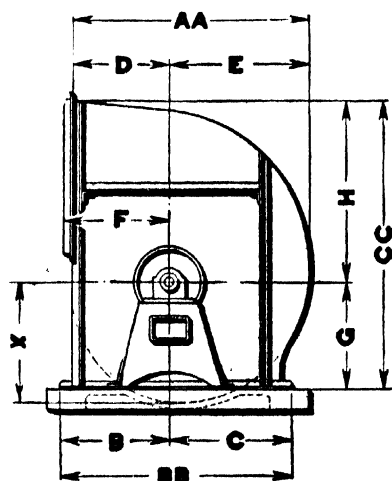
## Supervane Fan—Design 1

Single Width

 $\frac{7}{8}$  Housing

Top Horizontal Discharge

Overhung Wheel



| Fan Size | A  | B  | C  | D  | E  | F  | G  | H   | J  | K  | M  | O  | P  | Q  | R  | V  | W  | X  | AA  | BB  | CC  | DD  | EE  | Extreme Wheel Diameter | Shaft Diameter | Anchor Bolts |        |
|----------|----|----|----|----|----|----|----|-----|----|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|------------------------|----------------|--------------|--------|
|          |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |     |     |     |     |     |                        |                | Fan          | Hanger |
| J        | 40 | 23 | 30 | 25 | 37 | 27 | 28 | 48  | 16 | 28 | 46 | 28 | 17 | 43 | 44 | 10 | 18 | 31 | 63  | 53  | 76  | 60  | 60  | 43                     | 2 1/8          | 1            | 1      |
| K        | 46 | 25 | 34 | 29 | 40 | 32 | 32 | 55  | 18 | 31 | 54 | 32 | 19 | 47 | 48 | 11 | 20 | 36 | 72  | 59  | 87  | 66  | 67  | 50                     | 2 1/8          | 1            | 1      |
| L        | 52 | 29 | 38 | 33 | 48 | 36 | 36 | 62  | 20 | 33 | 61 | 36 | 22 | 50 | 51 | 12 | 22 | 40 | 82  | 68  | 98  | 71  | 72  | 56                     | 2 1/8          | 1            | 1      |
| M        | 58 | 32 | 42 | 37 | 54 | 40 | 40 | 69  | 22 | 36 | 68 | 40 | 24 | 55 | 56 | 12 | 24 | 45 | 91  | 75  | 109 | 78  | 80  | 63                     | 3 1/8          | 1            | 1      |
| N        | 64 | 46 | 46 | 41 | 59 | 43 | 44 | 77  | 24 | 39 | 75 | 45 | 27 | 58 | 59 | 13 | 28 | 50 | 101 | 93  | 121 | 84  | 85  | 69                     | 3 1/8          | 1            | 1      |
| P        | 70 | 50 | 50 | 45 | 65 | 48 | 48 | 84  | 26 | 42 | 82 | 49 | 29 | 63 | 65 | 13 | 32 | 54 | 110 | 100 | 132 | 92  | 93  | 76                     | 3 1/8          | 1            | 1      |
| Q        | 76 | 55 | 55 | 49 | 71 | 52 | 51 | 91  | 29 | 46 | 89 | 53 | 32 | 69 | 71 | 14 | 36 | 59 | 120 | 110 | 132 | 100 | 102 | 82                     | 4 1/8          | 1            | 1      |
| R        | 84 | 60 | 60 | 54 | 78 | 57 | 56 | 101 | 32 | 49 | 98 | 59 | 35 | 72 | 74 | 14 | 42 | 65 | 132 | 120 | 157 | 106 | 107 | 91                     | 4 1/8          | 1            | 1      |

Single Inlet

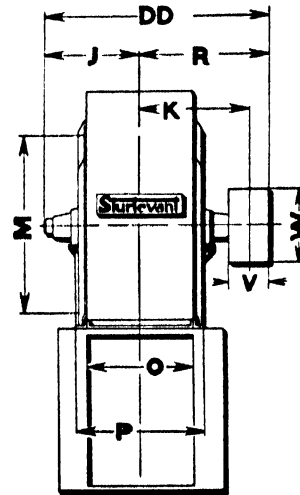
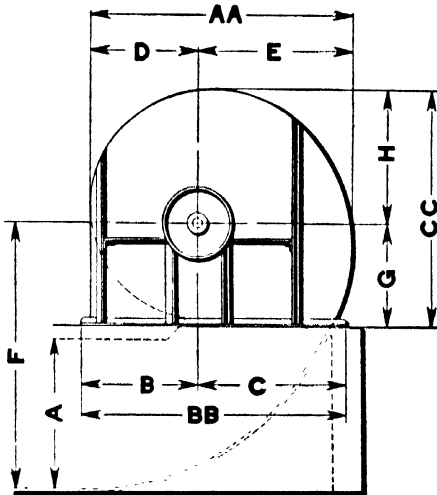
## Supervane Fan—Design 1

Single Width

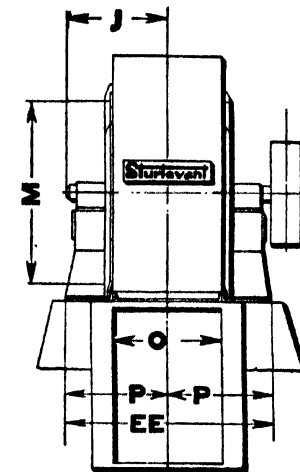
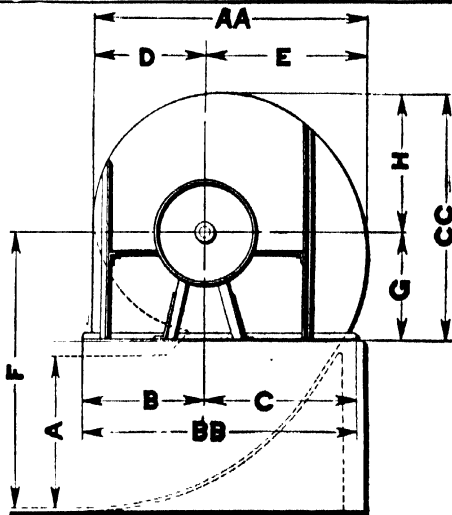
 $\frac{7}{8}$  Housing

Bottom Horizontal Discharge

Overhung Pulley



| Size | A  | B                | C                | D                | E                | F                 | G                | H                | J                | K                | M                | O                | P                | R                | V  | W  | AA                | BB                | CC                | DD                | Extreme Wheel Diameter | Shaft Diameter  | Anchor Bolts |
|------|----|------------------|------------------|------------------|------------------|-------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|----|----|-------------------|-------------------|-------------------|-------------------|------------------------|-----------------|--------------|
| J    | 40 | 31 $\frac{1}{2}$ | 38 $\frac{3}{4}$ | 27 $\frac{1}{2}$ | 40 $\frac{1}{2}$ | 72                | 28               | 33 $\frac{1}{2}$ | 25               | 26 $\frac{1}{2}$ | 46 $\frac{1}{2}$ | 27 $\frac{1}{2}$ | 35               | 31 $\frac{1}{2}$ | 10 | 18 | 67 $\frac{1}{2}$  | 69 $\frac{1}{2}$  | 61 $\frac{1}{2}$  | 56 $\frac{1}{2}$  | 43 $\frac{1}{2}$       | 2 $\frac{1}{8}$ | 1            |
| K    | 46 | 35 $\frac{1}{2}$ | 43 $\frac{3}{4}$ | 31 $\frac{1}{2}$ | 46 $\frac{1}{2}$ | 82                | 32               | 38 $\frac{1}{2}$ | 28               | 29 $\frac{1}{2}$ | 54               | 31 $\frac{1}{2}$ | 39 $\frac{1}{2}$ | 35 $\frac{1}{2}$ | 11 | 20 | 78                | 79                | 70 $\frac{1}{2}$  | 63 $\frac{1}{2}$  | 50 $\frac{1}{2}$       | 2 $\frac{1}{8}$ | 1            |
| L    | 52 | 40 $\frac{1}{2}$ | 50 $\frac{1}{2}$ | 35 $\frac{1}{2}$ | 52 $\frac{1}{2}$ | 92                | 36               | 43 $\frac{1}{2}$ | 30               | 31 $\frac{1}{2}$ | 61               | 36               | 45 $\frac{1}{2}$ | 37 $\frac{1}{2}$ | 12 | 22 | 88                | 90 $\frac{1}{2}$  | 79 $\frac{1}{2}$  | 67 $\frac{1}{2}$  | 56 $\frac{1}{2}$       | 2 $\frac{1}{8}$ | 1            |
| M    | 58 | 41 $\frac{1}{2}$ | 55 $\frac{1}{2}$ | 40               | 58 $\frac{1}{2}$ | 102               | 40               | 48 $\frac{1}{2}$ | 33 $\frac{1}{2}$ | 35 $\frac{1}{2}$ | 68               | 40 $\frac{1}{2}$ | 49 $\frac{1}{2}$ | 41 $\frac{1}{2}$ | 12 | 24 | 98 $\frac{1}{2}$  | 100               | 88 $\frac{1}{2}$  | 74 $\frac{1}{2}$  | 63 $\frac{1}{2}$       | 3 $\frac{1}{8}$ | 1            |
| N    | 61 | 49 $\frac{1}{2}$ | 61 $\frac{1}{2}$ | 41 $\frac{1}{2}$ | 61 $\frac{1}{2}$ | 112 $\frac{1}{2}$ | 44 $\frac{1}{2}$ | 53 $\frac{1}{2}$ | 35 $\frac{1}{2}$ | 37 $\frac{1}{2}$ | 75               | 44 $\frac{1}{2}$ | 54 $\frac{1}{2}$ | 44 $\frac{1}{2}$ | 13 | 28 | 108 $\frac{1}{2}$ | 110 $\frac{1}{2}$ | 97 $\frac{1}{2}$  | 80                | 69 $\frac{1}{2}$       | 3 $\frac{1}{8}$ | 1            |
| P    | 70 | 53 $\frac{1}{2}$ | 66 $\frac{1}{2}$ | 48 $\frac{1}{2}$ | 70 $\frac{1}{2}$ | 122               | 48               | 58 $\frac{1}{2}$ | 39 $\frac{1}{2}$ | 41 $\frac{1}{2}$ | 82               | 48 $\frac{1}{2}$ | 58 $\frac{1}{2}$ | 47 $\frac{1}{2}$ | 13 | 32 | 118 $\frac{1}{2}$ | 120               | 106 $\frac{1}{2}$ | 87 $\frac{1}{2}$  | 76                     | 3 $\frac{1}{8}$ | 1            |
| Q    | 76 | 58 $\frac{1}{2}$ | 73 $\frac{1}{2}$ | 52 $\frac{1}{2}$ | 76 $\frac{1}{2}$ | 131 $\frac{1}{2}$ | 51 $\frac{1}{2}$ | 63 $\frac{1}{2}$ | 43               | 45               | 89               | 52 $\frac{1}{2}$ | 64 $\frac{1}{2}$ | 52               | 14 | 36 | 128 $\frac{1}{2}$ | 131 $\frac{1}{2}$ | 114 $\frac{1}{2}$ | 95                | 82 $\frac{1}{2}$       | 4 $\frac{1}{2}$ | 1            |
| R    | 81 | 63 $\frac{1}{2}$ | 80 $\frac{1}{2}$ | 57 $\frac{1}{2}$ | 81 $\frac{1}{2}$ | 144 $\frac{1}{2}$ | 56 $\frac{1}{2}$ | 69 $\frac{1}{2}$ | 45 $\frac{1}{2}$ | 47 $\frac{1}{2}$ | 98 $\frac{1}{2}$ | 58 $\frac{1}{2}$ | 70 $\frac{1}{2}$ | 54 $\frac{1}{2}$ | 14 | 42 | 142 $\frac{1}{2}$ | 143 $\frac{1}{2}$ | 126 $\frac{1}{2}$ | 100 $\frac{1}{2}$ | 91 $\frac{1}{2}$       | 4 $\frac{1}{2}$ | 1            |



| Fan Size | A   | B    | C    | D    | E    | F    | G   | H    | J   | M    | O    | P   | AA   | BB   | CC   | EE   | Wheel Diameter | Shaft Diameter | Anchor Bolts |          |
|----------|-----|------|------|------|------|------|-----|------|-----|------|------|-----|------|------|------|------|----------------|----------------|--------------|----------|
|          |     |      |      |      |      |      |     |      |     |      |      |     |      |      |      |      |                |                | Fan          | Pedestal |
| S        | 92  | 69½  | 87½  | 63½  | 92½  | 157  | 61  | 76½  | 54½ | 107½ | 63½  | 53  | 155½ | 156½ | 137½ | 106  | 99½            | 5              | 1            | 1½       |
| T        | 100 | 74½  | 94½  | 68½  | 100½ | 170  | 66  | 83   | 56½ | 117½ | 69½  | 56½ | 169½ | 169½ | 149  | 112½ | 108½           | 5              | 1            | 1½       |
| U        | 108 | 80½  | 101½ | 74½  | 108½ | 182½ | 70½ | 89½  | 64½ | 126½ | 74½  | 64½ | 182½ | 181½ | 160  | 129  | 117½           | 5½             | 1            | 1½       |
| V        | 116 | 85½  | 109½ | 79½  | 116½ | 195  | 75  | 96½  | 67½ | 135½ | 80½  | 68½ | 196  | 195½ | 171½ | 137½ | 125½           | 6              | 1            | 1½       |
| W        | 128 | 94½  | 120½ | 88½  | 128½ | 214  | 82  | 106½ | 71½ | 149½ | 88½  | 73½ | 216½ | 214½ | 188½ | 147½ | 138½           | 6              | 1            | 1½       |
| X        | 140 | 102½ | 130  | 96½  | 140½ | 234  | 90  | 116½ | 76  | 163½ | 96½  | 79  | 236½ | 232½ | 206½ | 158  | 151½           | 6              | 1½           | 1½       |
| Y        | 152 | 110½ | 141  | 104½ | 152½ | 253  | 97  | 126  | 80½ | 177½ | 105½ | 83½ | 256½ | 251½ | 223  | 167½ | 164½           | 6              | 1½           | 1½       |



Single Inlet

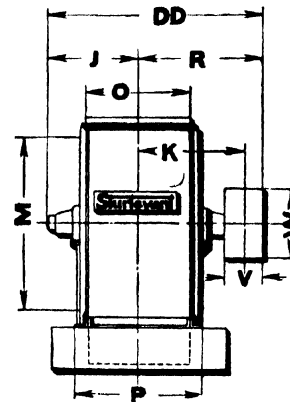
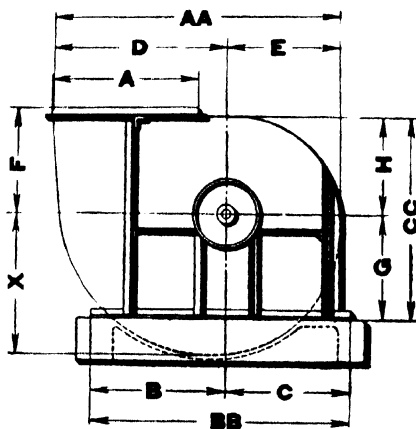
## Supervane Fan—Design 1

Single Width

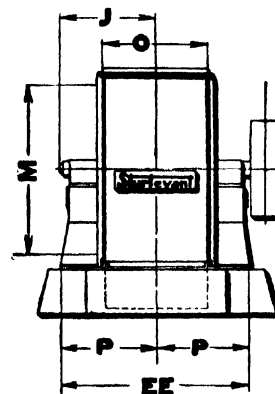
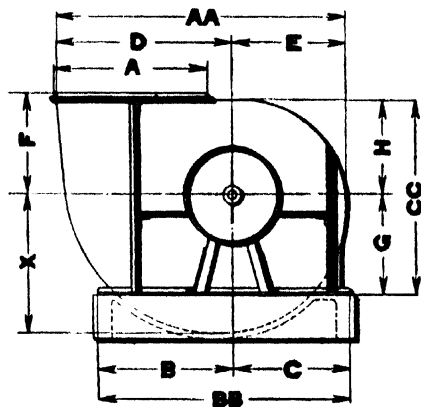
 $\frac{7}{8}$  Housing

Up Blast Discharge

Overhung Pulley



| Size | A  | B  | C  | D   | E  | F  | G  | H  | J  | K  | M  | O  | P  | R  | V  | W  | X  | AA  | BB  | CC  | DD  | Extreme Wheel Diameter | Shaft Diameter | Anchor Bolts |
|------|----|----|----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|------------------------|----------------|--------------|
| J    | 10 | 37 | 27 | 48  | 31 | 27 | 28 | 25 | 25 | 26 | 46 | 28 | 35 | 31 | 10 | 18 | 37 | 79  | 64  | 53  | 56  | 43                     | 2              | 1            |
| K    | 46 | 11 | 30 | 55  | 36 | 32 | 32 | 29 | 28 | 29 | 54 | 32 | 39 | 35 | 11 | 20 | 43 | 91  | 72  | 61  | 63  | 50                     | 2              | 1            |
| L    | 52 | 48 | 35 | 62  | 40 | 36 | 36 | 33 | 30 | 31 | 61 | 36 | 45 | 37 | 12 | 22 | 48 | 103 | 83  | 69  | 67  | 56                     | 2              | 1            |
| M    | 58 | 53 | 38 | 69  | 45 | 40 | 40 | 37 | 33 | 35 | 68 | 40 | 49 | 41 | 12 | 24 | 54 | 115 | 91  | 77  | 74  | 63                     | 3              | 1            |
| N    | 64 | 59 | 46 | 77  | 50 | 43 | 44 | 41 | 35 | 37 | 75 | 45 | 54 | 44 | 13 | 28 | 59 | 127 | 105 | 85  | 80  | 69                     | 3              | 1            |
| P    | 70 | 64 | 50 | 84  | 54 | 48 | 48 | 45 | 39 | 41 | 82 | 49 | 58 | 47 | 13 | 32 | 65 | 138 | 114 | 93  | 87  | 76                     | 3              | 1            |
| Q    | 76 | 70 | 55 | 91  | 59 | 52 | 51 | 49 | 43 | 45 | 89 | 53 | 64 | 52 | 14 | 36 | 71 | 150 | 125 | 100 | 95  | 82                     | 4              | 1            |
| R    | 84 | 77 | 60 | 101 | 65 | 57 | 56 | 54 | 45 | 47 | 98 | 59 | 70 | 54 | 14 | 42 | 78 | 166 | 137 | 110 | 100 | 91                     | 4              | 1            |



| Size | A   | B   | C   | D   | E   | F   | G  | H  | J  | M   | O   | P  | X   | AA  | BB  | CC  | FE  | Wheel Diameter | Shaft Diameter | Anchor Bolts |
|------|-----|-----|-----|-----|-----|-----|----|----|----|-----|-----|----|-----|-----|-----|-----|-----|----------------|----------------|--------------|
| S    | 92  | 84  | 65  | 110 | 71  | 63  | 61 | 59 | 54 | 107 | 64  | 53 | 86  | 182 | 149 | 120 | 106 | 99             | 5              | 1            |
| T    | 100 | 91  | 70  | 120 | 78  | 69  | 66 | 64 | 56 | 117 | 70  | 56 | 93  | 198 | 161 | 130 | 112 | 108            | 5              | 1            |
| U    | 108 | 97  | 75  | 130 | 84  | 74  | 70 | 69 | 64 | 126 | 75  | 64 | 100 | 214 | 173 | 140 | 129 | 117            | 5              | 1            |
| V    | 116 | 105 | 80  | 139 | 90  | 79  | 75 | 74 | 67 | 135 | 81  | 68 | 108 | 230 | 186 | 149 | 137 | 125            | 6              | 1            |
| W    | 128 | 116 | 88  | 154 | 99  | 87  | 82 | 82 | 71 | 149 | 89  | 73 | 119 | 253 | 205 | 164 | 147 | 138            | 6              | 1            |
| X    | 140 | 125 | 96  | 168 | 109 | 95  | 90 | 90 | 76 | 163 | 97  | 79 | 130 | 277 | 221 | 180 | 158 | 151            | 6              | 1            |
| Y    | 152 | 136 | 104 | 182 | 118 | 103 | 97 | 98 | 80 | 177 | 106 | 83 | 142 | 301 | 240 | 195 | 167 | 164            | 6              | 1            |

Single Width

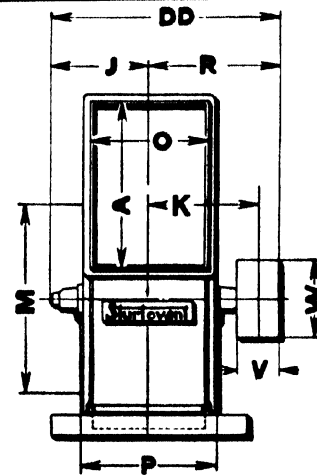
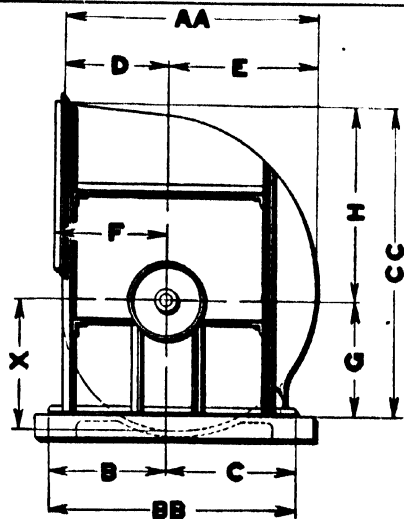
## Supervane Fan—Design 1

Single Inlet

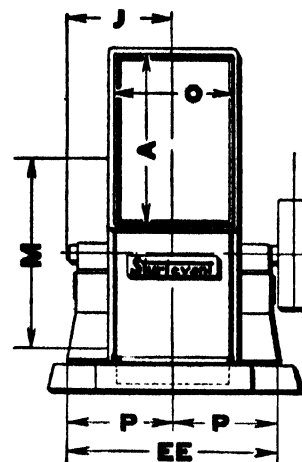
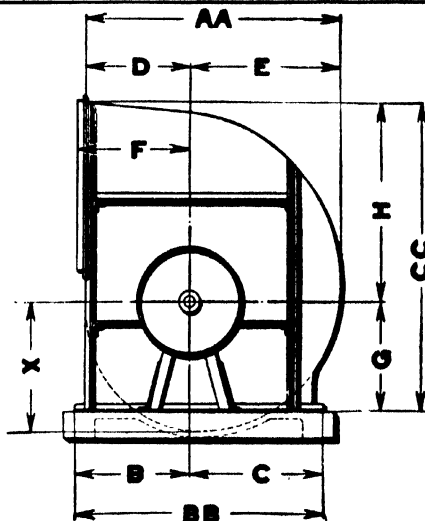
 $\frac{7}{8}$  Housing

Top Horizontal Discharge

Overhung Pulley



| Size | A                | B                | C                | D                | E                | F                | G                | H                 | J                | K                | M                | O                | P                | R                | V  | W  | X                | AA                | BB                | CC                | DD                | Extreme Wheel Diameter | Shaft Diameter  | Anchor Bolts  |
|------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|------------------|------------------|------------------|------------------|------------------|------------------|----|----|------------------|-------------------|-------------------|-------------------|-------------------|------------------------|-----------------|---------------|
| J    | 40 $\frac{1}{2}$ | 23               | 30 $\frac{1}{2}$ | 25 $\frac{1}{2}$ | 37 $\frac{1}{2}$ | 27 $\frac{1}{2}$ | 28               | 48 $\frac{1}{2}$  | 25               | 26 $\frac{1}{2}$ | 46 $\frac{1}{2}$ | 28 $\frac{1}{2}$ | 35               | 31 $\frac{1}{2}$ | 10 | 18 | 31 $\frac{1}{2}$ | 63 $\frac{1}{2}$  | 53 $\frac{1}{2}$  | 76 $\frac{1}{2}$  | 56 $\frac{1}{2}$  | 43 $\frac{1}{2}$       | 2 $\frac{1}{8}$ | $\frac{1}{2}$ |
| K    | 46 $\frac{1}{2}$ | 25 $\frac{1}{2}$ | 34 $\frac{1}{2}$ | 29 $\frac{1}{2}$ | 43 $\frac{1}{2}$ | 32 $\frac{1}{2}$ | 32               | 55 $\frac{1}{2}$  | 28               | 29 $\frac{1}{2}$ | 54               | 32 $\frac{1}{2}$ | 39 $\frac{1}{2}$ | 35 $\frac{1}{2}$ | 11 | 20 | 36               | 72 $\frac{1}{2}$  | 59 $\frac{1}{2}$  | 87 $\frac{1}{2}$  | 63 $\frac{1}{2}$  | 50 $\frac{1}{2}$       | 2 $\frac{1}{8}$ | $\frac{1}{2}$ |
| L    | 52 $\frac{1}{2}$ | 29 $\frac{1}{2}$ | 38 $\frac{1}{2}$ | 33 $\frac{1}{2}$ | 48 $\frac{1}{2}$ | 36 $\frac{1}{2}$ | 36               | 62 $\frac{1}{2}$  | 30               | 31 $\frac{1}{2}$ | 61               | 36 $\frac{1}{2}$ | 45 $\frac{1}{2}$ | 37 $\frac{1}{2}$ | 12 | 22 | 40 $\frac{1}{2}$ | 82 $\frac{1}{2}$  | 68 $\frac{1}{2}$  | 98 $\frac{1}{2}$  | 67 $\frac{1}{2}$  | 56 $\frac{1}{2}$       | 2 $\frac{1}{8}$ | $\frac{1}{2}$ |
| M    | 58 $\frac{1}{2}$ | 32 $\frac{1}{2}$ | 42 $\frac{1}{2}$ | 37 $\frac{1}{2}$ | 54 $\frac{1}{2}$ | 40               | 40               | 69 $\frac{1}{2}$  | 33 $\frac{1}{2}$ | 35 $\frac{1}{2}$ | 68               | 40 $\frac{1}{2}$ | 49 $\frac{1}{2}$ | 41 $\frac{1}{2}$ | 12 | 24 | 45 $\frac{1}{2}$ | 91 $\frac{1}{2}$  | 75 $\frac{1}{2}$  | 109 $\frac{1}{2}$ | 74 $\frac{1}{2}$  | 63 $\frac{1}{2}$       | 3 $\frac{1}{8}$ | $\frac{1}{2}$ |
| N    | 61 $\frac{1}{2}$ | 46 $\frac{1}{2}$ | 46 $\frac{1}{2}$ | 41 $\frac{1}{2}$ | 59 $\frac{1}{2}$ | 43 $\frac{1}{2}$ | 44 $\frac{1}{2}$ | 77 $\frac{1}{2}$  | 35 $\frac{1}{2}$ | 37 $\frac{1}{2}$ | 75               | 45 $\frac{1}{2}$ | 54 $\frac{1}{2}$ | 44 $\frac{1}{2}$ | 13 | 28 | 50               | 101 $\frac{1}{2}$ | 93 $\frac{1}{2}$  | 121 $\frac{1}{2}$ | 80                | 69 $\frac{1}{2}$       | 3 $\frac{1}{8}$ | $\frac{1}{2}$ |
| P    | 70 $\frac{1}{2}$ | 50 $\frac{1}{2}$ | 50 $\frac{1}{2}$ | 45 $\frac{1}{2}$ | 65 $\frac{1}{2}$ | 48 $\frac{1}{2}$ | 48               | 84 $\frac{1}{2}$  | 39 $\frac{1}{2}$ | 41 $\frac{1}{2}$ | 82               | 49 $\frac{1}{2}$ | 58 $\frac{1}{2}$ | 47 $\frac{1}{2}$ | 13 | 32 | 54 $\frac{1}{2}$ | 110 $\frac{1}{2}$ | 100 $\frac{1}{2}$ | 132 $\frac{1}{2}$ | 87 $\frac{1}{2}$  | 76                     | 3 $\frac{1}{8}$ | $\frac{1}{2}$ |
| Q    | 76 $\frac{1}{2}$ | 55 $\frac{1}{2}$ | 55 $\frac{1}{2}$ | 49 $\frac{1}{2}$ | 71 $\frac{1}{2}$ | 52 $\frac{1}{2}$ | 51 $\frac{1}{2}$ | 91 $\frac{1}{2}$  | 43               | 45               | 89               | 53 $\frac{1}{2}$ | 64 $\frac{1}{2}$ | 52               | 14 | 36 | 59 $\frac{1}{2}$ | 120 $\frac{1}{2}$ | 110 $\frac{1}{2}$ | 143 $\frac{1}{2}$ | 95                | 82 $\frac{1}{2}$       | 4 $\frac{1}{2}$ | $\frac{1}{2}$ |
| R    | 84 $\frac{1}{2}$ | 60 $\frac{1}{2}$ | 60 $\frac{1}{2}$ | 54 $\frac{1}{2}$ | 78 $\frac{1}{2}$ | 57 $\frac{1}{2}$ | 56 $\frac{1}{2}$ | 101 $\frac{1}{2}$ | 45 $\frac{1}{2}$ | 47 $\frac{1}{2}$ | 98 $\frac{1}{2}$ | 59               | 70 $\frac{1}{2}$ | 54 $\frac{1}{2}$ | 14 | 42 | 65 $\frac{1}{2}$ | 132 $\frac{1}{2}$ | 120 $\frac{1}{2}$ | 157 $\frac{1}{2}$ | 100 $\frac{1}{2}$ | 91 $\frac{1}{2}$       | 4 $\frac{1}{2}$ | 1             |



| Fan Size | A                 | B                | C                | D                | E                 | F                | G                | H                 | J                | M                 | O                 | P                | X                 | AA                | BB                | CC                | EE                | Wheel Diameter    | Shaft Diameter  | Anchor Bolts    |                 |
|----------|-------------------|------------------|------------------|------------------|-------------------|------------------|------------------|-------------------|------------------|-------------------|-------------------|------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-----------------|-----------------|-----------------|
|          |                   |                  |                  |                  |                   |                  |                  |                   |                  |                   |                   |                  |                   |                   |                   |                   |                   |                   |                 | Fan             | Pod.            |
| S        | 92 $\frac{1}{2}$  | 65 $\frac{1}{2}$ | 65 $\frac{1}{2}$ | 59 $\frac{1}{2}$ | 86                | 63 $\frac{1}{2}$ | 61               | 110 $\frac{1}{2}$ | 54 $\frac{1}{2}$ | 107 $\frac{1}{2}$ | 64 $\frac{1}{2}$  | 53               | 71 $\frac{1}{2}$  | 145 $\frac{1}{2}$ | 130 $\frac{1}{2}$ | 171 $\frac{1}{2}$ | 106               | 99 $\frac{1}{2}$  | 5               | 1               | 1 $\frac{1}{2}$ |
| T        | 100 $\frac{1}{2}$ | 70 $\frac{1}{2}$ | 70 $\frac{1}{2}$ | 64 $\frac{1}{2}$ | 93 $\frac{1}{2}$  | 69 $\frac{1}{2}$ | 66               | 120 $\frac{1}{2}$ | 56 $\frac{1}{2}$ | 117 $\frac{1}{2}$ | 70 $\frac{1}{2}$  | 56 $\frac{1}{2}$ | 78 $\frac{1}{2}$  | 158 $\frac{1}{2}$ | 141 $\frac{1}{2}$ | 186 $\frac{1}{2}$ | 112 $\frac{1}{2}$ | 108 $\frac{1}{2}$ | 5               | 1               | 1 $\frac{1}{2}$ |
| U        | 108 $\frac{1}{2}$ | 75 $\frac{1}{2}$ | 75 $\frac{1}{2}$ | 69 $\frac{1}{2}$ | 100 $\frac{1}{2}$ | 74 $\frac{1}{2}$ | 70 $\frac{1}{2}$ | 130               | 64 $\frac{1}{2}$ | 126 $\frac{1}{2}$ | 75 $\frac{1}{2}$  | 64 $\frac{1}{2}$ | 84 $\frac{1}{2}$  | 170 $\frac{1}{2}$ | 151 $\frac{1}{2}$ | 200 $\frac{1}{2}$ | 129               | 117 $\frac{1}{2}$ | 5 $\frac{1}{2}$ | 1               | 1 $\frac{1}{2}$ |
| V        | 116 $\frac{1}{2}$ | 80 $\frac{1}{2}$ | 80 $\frac{1}{2}$ | 74 $\frac{1}{2}$ | 108 $\frac{1}{2}$ | 79 $\frac{1}{2}$ | 75               | 139 $\frac{1}{2}$ | 67 $\frac{1}{2}$ | 135 $\frac{1}{2}$ | 81 $\frac{1}{2}$  | 68 $\frac{1}{2}$ | 90 $\frac{1}{2}$  | 183 $\frac{1}{2}$ | 161 $\frac{1}{2}$ | 214 $\frac{1}{2}$ | 137 $\frac{1}{2}$ | 125 $\frac{1}{2}$ | 6               | 1               | 1 $\frac{1}{2}$ |
| W        | 128 $\frac{1}{2}$ | 88 $\frac{1}{2}$ | 88 $\frac{1}{2}$ | 82 $\frac{1}{2}$ | 119 $\frac{1}{2}$ | 87 $\frac{1}{2}$ | 82               | 154               | 71 $\frac{1}{2}$ | 149 $\frac{1}{2}$ | 89 $\frac{1}{2}$  | 73 $\frac{1}{2}$ | 99 $\frac{1}{2}$  | 202 $\frac{1}{2}$ | 177 $\frac{1}{2}$ | 236               | 147 $\frac{1}{2}$ | 138 $\frac{1}{2}$ | 6               | 1               | 1 $\frac{1}{2}$ |
| X        | 140 $\frac{1}{2}$ | 96 $\frac{1}{2}$ | 96 $\frac{1}{2}$ | 90 $\frac{1}{2}$ | 130 $\frac{1}{2}$ | 95 $\frac{1}{2}$ | 90               | 168 $\frac{1}{2}$ | 76               | 163 $\frac{1}{2}$ | 97 $\frac{1}{2}$  | 79               | 109 $\frac{1}{2}$ | 221 $\frac{1}{2}$ | 192 $\frac{1}{2}$ | 258 $\frac{1}{2}$ | 158               | 151 $\frac{1}{2}$ | 6               | 1 $\frac{1}{2}$ | 1 $\frac{1}{2}$ |
| Y        | 152 $\frac{1}{2}$ | 104              | 104              | 98               | 142               | 103              | 97               | 182 $\frac{1}{2}$ | 80 $\frac{1}{2}$ | 177 $\frac{1}{2}$ | 106 $\frac{1}{2}$ | 83 $\frac{1}{2}$ | 118 $\frac{1}{2}$ | 240               | 208               | 279 $\frac{1}{2}$ | 167 $\frac{1}{2}$ | 164 $\frac{1}{2}$ | 6               | 1 $\frac{1}{2}$ | 1 $\frac{1}{2}$ |

Double Inlet

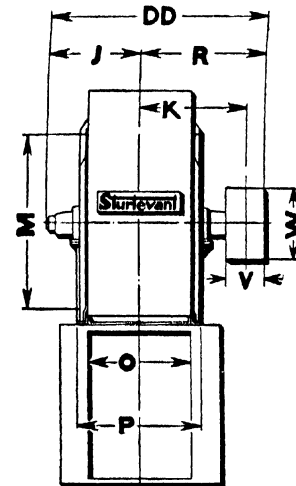
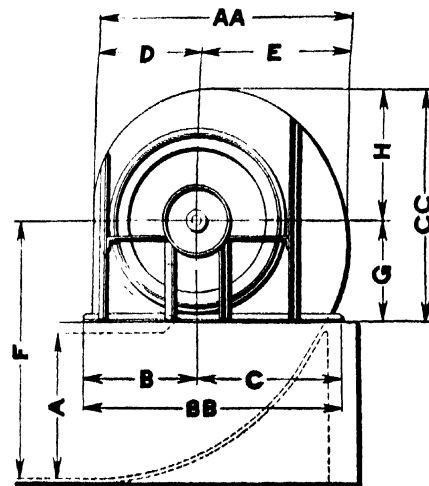
## Supervane Fan—Design 1

Single Width

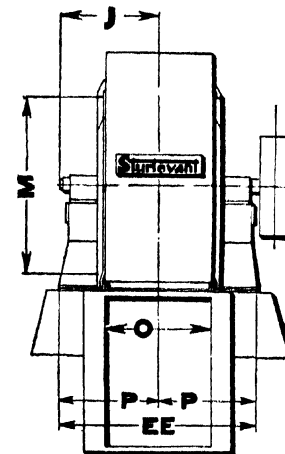
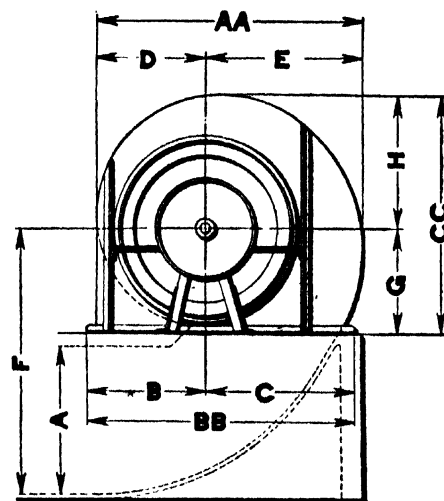
 $\frac{7}{8}$  Housing

Bottom Horizontal Discharge

Overhung Pulley



| Fan Size | A  | B  | C  | D  | E  | F   | G  | H  | J  | K  | M  | O  | P  | R  | V  | W  | AA  | BB  | CC  | DD  | Extreme Wheel Diameter | Shaft Diameter | Anchor Bolts |
|----------|----|----|----|----|----|-----|----|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|------------------------|----------------|--------------|
| J        | 40 | 31 | 38 | 27 | 40 | 72  | 28 | 33 | 25 | 26 | 46 | 27 | 35 | 31 | 10 | 18 | 67  | 69  | 61  | 56  | 43                     | 2 1/4          | 1            |
| K        | 46 | 35 | 43 | 31 | 46 | 82  | 32 | 38 | 28 | 29 | 54 | 31 | 39 | 35 | 11 | 20 | 78  | 79  | 70  | 63  | 50                     | 2 1/4          | 1            |
| L        | 52 | 40 | 50 | 35 | 52 | 92  | 36 | 43 | 30 | 31 | 61 | 36 | 45 | 37 | 12 | 22 | 88  | 90  | 79  | 67  | 56                     | 2 1/4          | 1            |
| M        | 58 | 44 | 55 | 40 | 58 | 102 | 40 | 48 | 33 | 35 | 68 | 40 | 49 | 41 | 12 | 24 | 98  | 100 | 88  | 74  | 63                     | 3 7/8          | 1            |
| N        | 64 | 49 | 61 | 44 | 64 | 112 | 44 | 53 | 35 | 37 | 75 | 44 | 54 | 44 | 13 | 28 | 108 | 110 | 97  | 80  | 69                     | 3 7/8          | 1            |
| P        | 70 | 53 | 66 | 48 | 70 | 122 | 48 | 58 | 39 | 41 | 82 | 48 | 58 | 47 | 13 | 32 | 118 | 120 | 106 | 87  | 76                     | 3 7/8          | 1            |
| Q        | 76 | 58 | 73 | 52 | 76 | 131 | 51 | 63 | 43 | 45 | 89 | 52 | 64 | 52 | 14 | 36 | 128 | 131 | 114 | 95  | 82                     | 4 1/2          | 1            |
| R        | 84 | 63 | 80 | 57 | 84 | 141 | 56 | 69 | 45 | 47 | 98 | 58 | 70 | 54 | 14 | 42 | 142 | 143 | 126 | 100 | 91                     | 4 1/2          | 1            |



| Fan Size | A   | B   | C   | D   | E   | F   | G  | H   | J  | M   | O   | P  | AA  | BB  | CC  | DD  | Wheel Dia. | Shaft Diameter | Anchor Bolts |
|----------|-----|-----|-----|-----|-----|-----|----|-----|----|-----|-----|----|-----|-----|-----|-----|------------|----------------|--------------|
| S        | 92  | 69  | 87  | 63  | 92  | 157 | 61 | 76  | 54 | 107 | 63  | 53 | 155 | 156 | 137 | 106 | 99         | 5              | 1            |
| T        | 100 | 74  | 94  | 68  | 100 | 170 | 66 | 83  | 56 | 117 | 69  | 56 | 169 | 169 | 149 | 112 | 108        | 5              | 1            |
| U        | 108 | 80  | 101 | 74  | 108 | 182 | 70 | 89  | 64 | 126 | 74  | 64 | 182 | 181 | 160 | 129 | 117        | 5 1/2          | 1            |
| V        | 116 | 85  | 109 | 79  | 116 | 195 | 75 | 96  | 67 | 135 | 80  | 68 | 196 | 195 | 171 | 137 | 125        | 6              | 1            |
| W        | 128 | 94  | 120 | 88  | 128 | 214 | 82 | 106 | 71 | 149 | 88  | 73 | 216 | 214 | 188 | 147 | 138        | 6              | 1            |
| X        | 140 | 102 | 130 | 96  | 140 | 234 | 90 | 116 | 76 | 163 | 96  | 79 | 236 | 232 | 206 | 158 | 151        | 6              | 1 1/2        |
| Y        | 152 | 110 | 141 | 104 | 152 | 253 | 97 | 126 | 80 | 177 | 105 | 83 | 256 | 251 | 223 | 167 | 164        | 6              | 1 1/2        |

Double Inlet

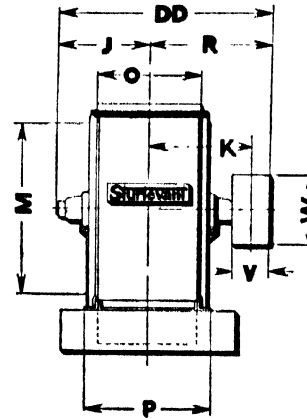
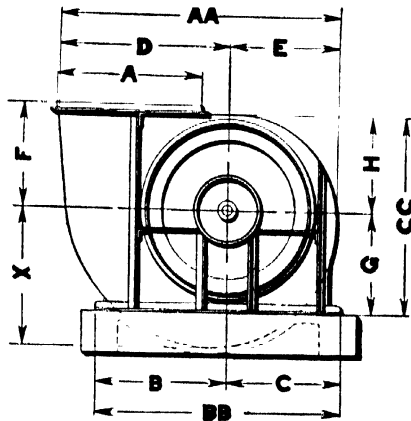
## Supervane Fan—Design 1

Single Width

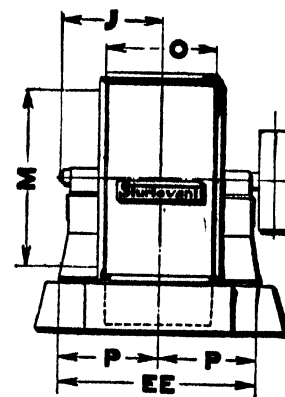
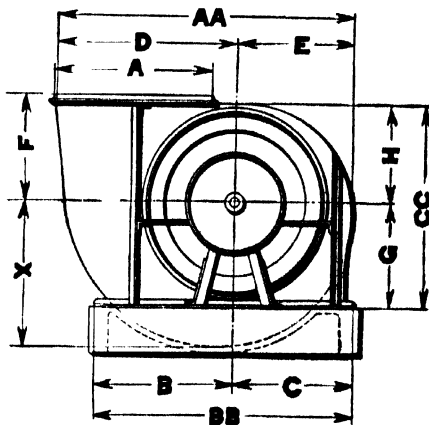
 $\frac{7}{8}$  Housing

Up Blast Discharge

Overhung Pulley



| Size | A                | B                | C                | D                 | E                | F                | G                | H                | J                | K                | M                | O                | P                | R                | V  | W  | X                | AA                | BB                | CC                | DD                | Extreme Wheel Diameter | Shaft Diameter  | Anchor Bolts |
|------|------------------|------------------|------------------|-------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|----|----|------------------|-------------------|-------------------|-------------------|-------------------|------------------------|-----------------|--------------|
| J    | 40 $\frac{1}{2}$ | 37               | 27               | 18 $\frac{1}{2}$  | 31 $\frac{1}{2}$ | 27 $\frac{1}{2}$ | 28               | 25 $\frac{1}{2}$ | 25               | 26 $\frac{1}{2}$ | 46 $\frac{1}{2}$ | 28 $\frac{1}{2}$ | 35               | 31 $\frac{1}{2}$ | 10 | 18 | 37 $\frac{1}{2}$ | 79 $\frac{1}{2}$  | 64                | 53 $\frac{1}{2}$  | 56 $\frac{1}{2}$  | 43 $\frac{1}{2}$       | 2 $\frac{1}{4}$ | 1            |
| K    | 46 $\frac{1}{2}$ | 41 $\frac{1}{2}$ | 30 $\frac{1}{2}$ | 55 $\frac{1}{2}$  | 36               | 32 $\frac{1}{2}$ | 32               | 29 $\frac{1}{2}$ | 28               | 29 $\frac{1}{2}$ | 54               | 32 $\frac{1}{2}$ | 39 $\frac{1}{2}$ | 35 $\frac{1}{2}$ | 11 | 20 | 43 $\frac{1}{2}$ | 91 $\frac{1}{2}$  | 72 $\frac{1}{2}$  | 61 $\frac{1}{2}$  | 63 $\frac{1}{2}$  | 50 $\frac{1}{2}$       | 2 $\frac{1}{4}$ | 1            |
| L    | 52 $\frac{1}{2}$ | 48 $\frac{1}{2}$ | 35               | 62 $\frac{1}{2}$  | 40 $\frac{1}{2}$ | 36 $\frac{1}{2}$ | 36               | 33 $\frac{1}{2}$ | 30               | 31 $\frac{1}{2}$ | 61               | 36 $\frac{1}{2}$ | 45 $\frac{1}{2}$ | 37 $\frac{1}{2}$ | 12 | 22 | 48 $\frac{1}{2}$ | 103 $\frac{1}{2}$ | 83 $\frac{1}{2}$  | 69 $\frac{1}{2}$  | 67 $\frac{1}{2}$  | 56 $\frac{1}{2}$       | 2 $\frac{1}{4}$ | 1            |
| M    | 58 $\frac{1}{2}$ | 53               | 38 $\frac{1}{2}$ | 69 $\frac{1}{2}$  | 45 $\frac{1}{2}$ | 40               | 40               | 37 $\frac{1}{2}$ | 33 $\frac{1}{2}$ | 35 $\frac{1}{2}$ | 68               | 40 $\frac{1}{2}$ | 49 $\frac{1}{2}$ | 41 $\frac{1}{2}$ | 12 | 24 | 54 $\frac{1}{2}$ | 115 $\frac{1}{2}$ | 91 $\frac{1}{2}$  | 77 $\frac{1}{2}$  | 71 $\frac{1}{2}$  | 63 $\frac{1}{2}$       | 3 $\frac{1}{4}$ | 1            |
| N    | 64 $\frac{1}{2}$ | 59               | 46 $\frac{1}{2}$ | 77 $\frac{1}{2}$  | 50               | 43 $\frac{1}{2}$ | 41 $\frac{1}{2}$ | 41 $\frac{1}{2}$ | 35 $\frac{1}{2}$ | 37 $\frac{1}{2}$ | 75               | 45 $\frac{1}{2}$ | 54 $\frac{1}{2}$ | 44 $\frac{1}{2}$ | 13 | 28 | 59 $\frac{1}{2}$ | 127 $\frac{1}{2}$ | 105 $\frac{1}{2}$ | 85 $\frac{1}{2}$  | 80                | 69 $\frac{1}{2}$       | 3 $\frac{1}{4}$ | 1            |
| P    | 70 $\frac{1}{2}$ | 64               | 50 $\frac{1}{2}$ | 84 $\frac{1}{2}$  | 54 $\frac{1}{2}$ | 48 $\frac{1}{2}$ | 48               | 45 $\frac{1}{2}$ | 39 $\frac{1}{2}$ | 41 $\frac{1}{2}$ | 82               | 49 $\frac{1}{2}$ | 58 $\frac{1}{2}$ | 47 $\frac{1}{2}$ | 13 | 32 | 65 $\frac{1}{2}$ | 138 $\frac{1}{2}$ | 114 $\frac{1}{2}$ | 93 $\frac{1}{2}$  | 87 $\frac{1}{2}$  | 76                     | 3 $\frac{1}{4}$ | 1            |
| Q    | 76 $\frac{1}{2}$ | 70 $\frac{1}{2}$ | 55 $\frac{1}{2}$ | 91 $\frac{1}{2}$  | 59 $\frac{1}{2}$ | 52 $\frac{1}{2}$ | 51 $\frac{1}{2}$ | 49 $\frac{1}{2}$ | 43               | 45               | 89               | 53 $\frac{1}{2}$ | 64 $\frac{1}{2}$ | 52               | 14 | 36 | 71 $\frac{1}{2}$ | 150 $\frac{1}{2}$ | 125 $\frac{1}{2}$ | 100 $\frac{1}{2}$ | 95                | 82 $\frac{1}{2}$       | 4 $\frac{1}{2}$ | 1            |
| R    | 81 $\frac{1}{2}$ | 77               | 60 $\frac{1}{2}$ | 101 $\frac{1}{2}$ | 65 $\frac{1}{2}$ | 57 $\frac{1}{2}$ | 56 $\frac{1}{2}$ | 54 $\frac{1}{2}$ | 45 $\frac{1}{2}$ | 47 $\frac{1}{2}$ | 98 $\frac{1}{2}$ | 59               | 70 $\frac{1}{2}$ | 54 $\frac{1}{2}$ | 14 | 42 | 78 $\frac{1}{2}$ | 166 $\frac{1}{2}$ | 137 $\frac{1}{2}$ | 110 $\frac{1}{2}$ | 100 $\frac{1}{2}$ | 91 $\frac{1}{2}$       | 4 $\frac{1}{2}$ | 1            |



| Fan Size                        | A                 | B                 | C                | D                 | E                 | F                | G                | H                | J                | M                 | O                 | P                | X                 | AA                | BB                | CC                | EE                | Wheel Diameter    | Shaft Diameter  | Anchor Bolts    |                 |
|---------------------------------|-------------------|-------------------|------------------|-------------------|-------------------|------------------|------------------|------------------|------------------|-------------------|-------------------|------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-----------------|-----------------|-----------------|
|                                 |                   |                   |                  |                   |                   |                  |                  |                  |                  |                   |                   |                  |                   |                   |                   |                   |                   |                   |                 | Fan             | Posterior       |
| S<br>T<br>U<br>V<br>W<br>X<br>Y | 92 $\frac{1}{2}$  | 84                | 65 $\frac{1}{2}$ | 110 $\frac{1}{2}$ | 71 $\frac{1}{2}$  | 63 $\frac{1}{2}$ | 61               | 59 $\frac{1}{2}$ | 54 $\frac{1}{2}$ | 107 $\frac{1}{2}$ | 64 $\frac{1}{2}$  | 53               | 86                | 182 $\frac{1}{2}$ | 149 $\frac{1}{2}$ | 120 $\frac{1}{2}$ | 106               | 99 $\frac{1}{2}$  | 5               | 1               | 1 $\frac{1}{4}$ |
|                                 | 100 $\frac{1}{2}$ | 91                | 70 $\frac{1}{2}$ | 120 $\frac{1}{2}$ | 78 $\frac{1}{2}$  | 69 $\frac{1}{2}$ | 66               | 64 $\frac{1}{2}$ | 56 $\frac{1}{2}$ | 117 $\frac{1}{2}$ | 70 $\frac{1}{2}$  | 56 $\frac{1}{2}$ | 93 $\frac{1}{2}$  | 198 $\frac{1}{2}$ | 161 $\frac{1}{2}$ | 130 $\frac{1}{2}$ | 112 $\frac{1}{2}$ | 108 $\frac{1}{2}$ | 5               | 1               | 1 $\frac{1}{4}$ |
|                                 | 108 $\frac{1}{2}$ | 97 $\frac{1}{2}$  | 75 $\frac{1}{2}$ | 130               | 81 $\frac{1}{2}$  | 74 $\frac{1}{2}$ | 70 $\frac{1}{2}$ | 69 $\frac{1}{2}$ | 61 $\frac{1}{2}$ | 126 $\frac{1}{2}$ | 75 $\frac{1}{2}$  | 64 $\frac{1}{2}$ | 100 $\frac{1}{2}$ | 214 $\frac{1}{2}$ | 173 $\frac{1}{2}$ | 140 $\frac{1}{2}$ | 129               | 117 $\frac{1}{2}$ | 5 $\frac{1}{2}$ | 1               | 1 $\frac{1}{4}$ |
|                                 | 116 $\frac{1}{2}$ | 105 $\frac{1}{2}$ | 80 $\frac{1}{2}$ | 139 $\frac{1}{2}$ | 90 $\frac{1}{2}$  | 79 $\frac{1}{2}$ | 75               | 74 $\frac{1}{2}$ | 67 $\frac{1}{2}$ | 135 $\frac{1}{2}$ | 81 $\frac{1}{2}$  | 68 $\frac{1}{2}$ | 108 $\frac{1}{2}$ | 230 $\frac{1}{2}$ | 186 $\frac{1}{2}$ | 149 $\frac{1}{2}$ | 137 $\frac{1}{2}$ | 125 $\frac{1}{2}$ | 6               | 1               | 1 $\frac{1}{4}$ |
|                                 | 128 $\frac{1}{2}$ | 116 $\frac{1}{2}$ | 88 $\frac{1}{2}$ | 154               | 99 $\frac{1}{2}$  | 87 $\frac{1}{2}$ | 82               | 82 $\frac{1}{2}$ | 71 $\frac{1}{2}$ | 149 $\frac{1}{2}$ | 89 $\frac{1}{2}$  | 73 $\frac{1}{2}$ | 119 $\frac{1}{2}$ | 253 $\frac{1}{2}$ | 205 $\frac{1}{2}$ | 164 $\frac{1}{2}$ | 147 $\frac{1}{2}$ | 138 $\frac{1}{2}$ | 6               | 1               | 1 $\frac{1}{4}$ |
|                                 | 140 $\frac{1}{2}$ | 125 $\frac{1}{2}$ | 96 $\frac{1}{2}$ | 168 $\frac{1}{2}$ | 109 $\frac{1}{2}$ | 95 $\frac{1}{2}$ | 90               | 90 $\frac{1}{2}$ | 76               | 163 $\frac{1}{2}$ | 97 $\frac{1}{2}$  | 79               | 130 $\frac{1}{2}$ | 277 $\frac{1}{2}$ | 221 $\frac{1}{2}$ | 180 $\frac{1}{2}$ | 158               | 151 $\frac{1}{2}$ | 6               | 1 $\frac{1}{4}$ | 1 $\frac{1}{4}$ |
|                                 | 152 $\frac{1}{2}$ | 136               | 104              | 182 $\frac{1}{2}$ | 118 $\frac{1}{2}$ | 103              | 97               | 98               | 80 $\frac{1}{2}$ | 177 $\frac{1}{2}$ | 106 $\frac{1}{2}$ | 83 $\frac{1}{2}$ | 142               | 301 $\frac{1}{2}$ | 240               | 195               | 167 $\frac{1}{2}$ | 164 $\frac{1}{2}$ | 6               | 1 $\frac{1}{4}$ | 1 $\frac{1}{4}$ |

Double Inlet

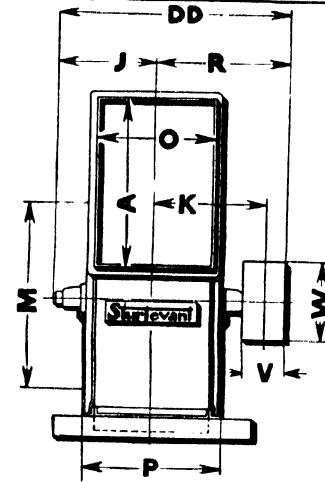
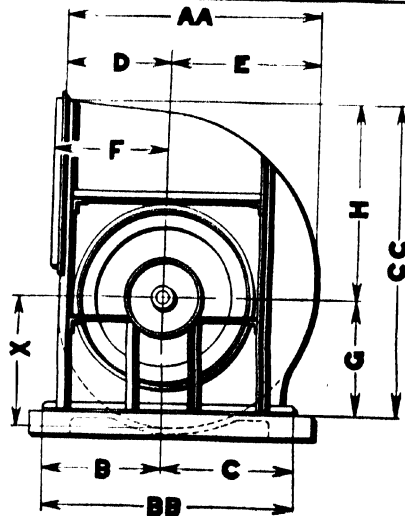
## Supervane Fan—Design 1

Single Width

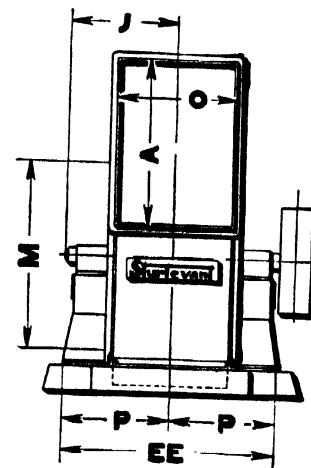
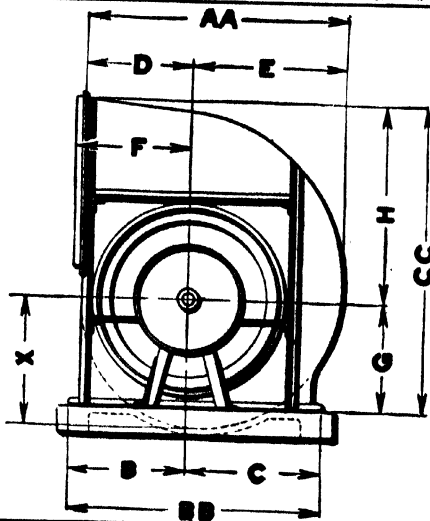
 $\frac{7}{8}$  Housing

Top Horizontal Discharge

Overhung Pulley



| Size | A                | B                | C                | D                | E                | F                | G                | H                 | J                | K                | M                | O                | P                | R                | V  | W  | X                | AA                | BB                | CC                | DD                | Extreme Wheel Diameter | Shaft Diameter  | Anchor Bolts |
|------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|------------------|------------------|------------------|------------------|------------------|------------------|----|----|------------------|-------------------|-------------------|-------------------|-------------------|------------------------|-----------------|--------------|
| J    | 10 $\frac{1}{2}$ | 23               | 30 $\frac{1}{2}$ | 25 $\frac{1}{2}$ | 37 $\frac{1}{2}$ | 27 $\frac{1}{2}$ | 28               | 48 $\frac{1}{2}$  | 25               | 26 $\frac{1}{2}$ | 46 $\frac{1}{2}$ | 28 $\frac{1}{2}$ | 35               | 31 $\frac{1}{2}$ | 10 | 18 | 31 $\frac{1}{2}$ | 63 $\frac{1}{2}$  | 53 $\frac{1}{2}$  | 76 $\frac{1}{2}$  | 56 $\frac{1}{2}$  | 43 $\frac{1}{2}$       | 2 $\frac{1}{8}$ | 7/8          |
| K    | 16 $\frac{1}{2}$ | 25 $\frac{1}{2}$ | 34 $\frac{1}{2}$ | 29 $\frac{1}{2}$ | 43 $\frac{1}{2}$ | 32 $\frac{1}{2}$ | 32               | 55 $\frac{1}{2}$  | 28               | 29 $\frac{1}{2}$ | 54               | 32 $\frac{1}{2}$ | 39 $\frac{1}{2}$ | 35 $\frac{1}{2}$ | 11 | 20 | 36               | 72 $\frac{1}{2}$  | 59 $\frac{1}{2}$  | 87 $\frac{1}{2}$  | 63 $\frac{1}{2}$  | 50 $\frac{1}{2}$       | 2 $\frac{1}{8}$ | 7/8          |
| L    | 52 $\frac{1}{2}$ | 29 $\frac{1}{2}$ | 38 $\frac{1}{2}$ | 33 $\frac{1}{2}$ | 48 $\frac{1}{2}$ | 36 $\frac{1}{2}$ | 36               | 62 $\frac{1}{2}$  | 30               | 31 $\frac{1}{2}$ | 61               | 36 $\frac{1}{2}$ | 45 $\frac{1}{2}$ | 37 $\frac{1}{2}$ | 12 | 22 | 40 $\frac{1}{2}$ | 82 $\frac{1}{2}$  | 68 $\frac{1}{2}$  | 98 $\frac{1}{2}$  | 67 $\frac{1}{2}$  | 56 $\frac{1}{2}$       | 2 $\frac{1}{8}$ | 7/8          |
| M    | 58 $\frac{1}{2}$ | 32 $\frac{1}{2}$ | 42 $\frac{1}{2}$ | 37 $\frac{1}{2}$ | 54 $\frac{1}{2}$ | 40               | 40               | 69 $\frac{1}{2}$  | 33 $\frac{1}{2}$ | 35 $\frac{1}{2}$ | 68               | 40 $\frac{1}{2}$ | 49 $\frac{1}{2}$ | 41 $\frac{1}{2}$ | 12 | 21 | 45 $\frac{1}{2}$ | 91 $\frac{1}{2}$  | 75 $\frac{1}{2}$  | 109 $\frac{1}{2}$ | 74 $\frac{1}{2}$  | 63 $\frac{1}{2}$       | 3 $\frac{1}{8}$ | 7/8          |
| N    | 64 $\frac{1}{2}$ | 46 $\frac{1}{2}$ | 46 $\frac{1}{2}$ | 41 $\frac{1}{2}$ | 59 $\frac{1}{2}$ | 43 $\frac{1}{2}$ | 44 $\frac{1}{2}$ | 77 $\frac{1}{2}$  | 35 $\frac{1}{2}$ | 37 $\frac{1}{2}$ | 75               | 45 $\frac{1}{2}$ | 54 $\frac{1}{2}$ | 11 $\frac{1}{2}$ | 13 | 28 | 50               | 101 $\frac{1}{2}$ | 93 $\frac{1}{2}$  | 121 $\frac{1}{2}$ | 80                | 69 $\frac{1}{2}$       | 3 $\frac{1}{8}$ | 7/8          |
| P    | 70 $\frac{1}{2}$ | 50 $\frac{1}{2}$ | 50 $\frac{1}{2}$ | 45 $\frac{1}{2}$ | 65 $\frac{1}{2}$ | 48 $\frac{1}{2}$ | 48               | 84 $\frac{1}{2}$  | 39 $\frac{1}{2}$ | 41 $\frac{1}{2}$ | 82               | 49 $\frac{1}{2}$ | 58 $\frac{1}{2}$ | 47 $\frac{1}{2}$ | 13 | 32 | 54 $\frac{1}{2}$ | 110 $\frac{1}{2}$ | 100 $\frac{1}{2}$ | 132 $\frac{1}{2}$ | 87 $\frac{1}{2}$  | 76                     | 3 $\frac{1}{8}$ | 7/8          |
| Q    | 76 $\frac{1}{2}$ | 55 $\frac{1}{2}$ | 55 $\frac{1}{2}$ | 49 $\frac{1}{2}$ | 71 $\frac{1}{2}$ | 52 $\frac{1}{2}$ | 51 $\frac{1}{2}$ | 91 $\frac{1}{2}$  | 43               | 45               | 89               | 53 $\frac{1}{2}$ | 64 $\frac{1}{2}$ | 52               | 14 | 36 | 59 $\frac{1}{2}$ | 120 $\frac{1}{2}$ | 110 $\frac{1}{2}$ | 143               | 95                | 82 $\frac{1}{2}$       | 4 $\frac{1}{2}$ | 7/8          |
| R    | 84 $\frac{1}{2}$ | 60 $\frac{1}{2}$ | 60 $\frac{1}{2}$ | 54 $\frac{1}{2}$ | 78 $\frac{1}{2}$ | 57 $\frac{1}{2}$ | 56 $\frac{1}{2}$ | 101 $\frac{1}{2}$ | 45 $\frac{1}{2}$ | 47 $\frac{1}{2}$ | 98 $\frac{1}{2}$ | 59               | 70 $\frac{1}{2}$ | 54 $\frac{1}{2}$ | 14 | 42 | 65 $\frac{1}{2}$ | 132 $\frac{1}{2}$ | 120 $\frac{1}{2}$ | 157 $\frac{1}{2}$ | 100 $\frac{1}{2}$ | 91 $\frac{1}{2}$       | 4 $\frac{1}{2}$ | 1            |



| Fan Size | A    | B   | C   | D   | E    | F   | G   | H    | J   | M    | O    | P   | X    | AA   | BB   | CC   | EE   | Wheel Diameter | Shaft Diameter | Anchor Bolts |          |
|----------|------|-----|-----|-----|------|-----|-----|------|-----|------|------|-----|------|------|------|------|------|----------------|----------------|--------------|----------|
|          |      |     |     |     |      |     |     |      |     |      |      |     |      |      |      |      |      |                |                | Fan          | Pedestal |
| S        | 92½  | 65½ | 65½ | 59½ | 86   | 63½ | 61  | 110½ | 54½ | 107½ | 64½  | 53  | 71½  | 145½ | 130½ | 171½ | 106  | 99½            | 5              | 1            | 1½       |
| T        | 100½ | 70½ | 70½ | 64½ | 93½  | 69½ | 66  | 120½ | 56½ | 117½ | 70½  | 56½ | 78½  | 158½ | 141½ | 186½ | 112½ | 108½           | 5              | 1            | 1½       |
| U        | 108½ | 75½ | 75½ | 69½ | 100½ | 74½ | 70½ | 130½ | 64½ | 126½ | 75½  | 64½ | 84½  | 170½ | 151½ | 200½ | 129  | 117½           | 5½             | 1            | 1½       |
| V        | 116½ | 80½ | 80½ | 74½ | 108½ | 79½ | 75  | 139½ | 67½ | 135½ | 81½  | 68½ | 90½  | 183½ | 161½ | 214½ | 137  | 125½           | 6              | 1            | 1½       |
| W        | 128½ | 88½ | 88½ | 82½ | 119½ | 87½ | 82  | 154½ | 71½ | 149½ | 89½  | 73½ | 99½  | 202½ | 177½ | 236  | 147½ | 138½           | 6              | 1            | 1½       |
| X        | 140½ | 96½ | 96½ | 90½ | 130½ | 95½ | 90  | 168½ | 76½ | 163½ | 97½  | 79  | 109½ | 221½ | 192½ | 258½ | 158  | 151½           | 6              | 1½           | 1½       |
| Y        | 152½ | 104 | 104 | 98  | 142  | 103 | 97  | 182½ | 80½ | 177½ | 106½ | 83½ | 118½ | 240  | 208  | 279½ | 167½ | 164½           | 6              | 1½           | 1½       |

Double Inlet

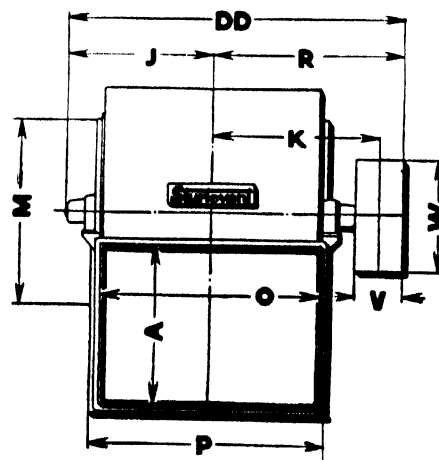
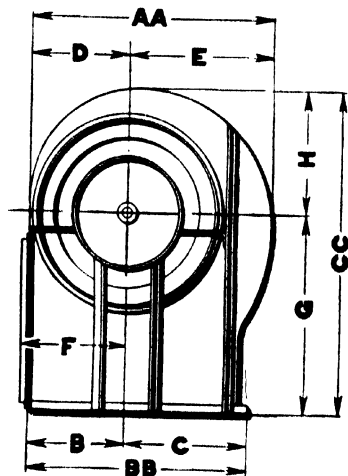
## Supervane Fan—Design 1

Double Width

Full Housing

Bottom Horizontal Discharge

Overhung Pulley



| Size | A   | B   | C   | D   | E   | F   | G    | H   | J   | K   | M   | O    | P    | R   | V  | W  | AA   | BB   | CC   | DD   | Extreme Wheel Diameter | Shaft Dia. | Anchor Bolts |
|------|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|------|------|-----|----|----|------|------|------|------|------------------------|------------|--------------|
| A    | 13½ | 8½  | 11½ | 8½  | 12½ | 9½  | 17½  | 10½ | 14  | 15½ | 15½ | 18½  | 22½  | 17½ | 4  | 8  | 20½  | 19½  | 27½  | 31½  | 14½                    | 1½         | 1            |
| B    | 16½ | 10½ | 13½ | 10½ | 15½ | 12  | 21   | 12½ | 16½ | 18½ | 19  | 22½  | 26½  | 21  | 5  | 10 | 25½  | 23½  | 33½  | 37½  | 17½                    | 1½         | 1            |
| C    | 19½ | 12½ | 15½ | 12½ | 17½ | 13½ | 25   | 15  | 19  | 21½ | 22½ | 27½  | 31½  | 24½ | 6  | 12 | 30½  | 27½  | 40   | 43½  | 20½                    | 1½         | 1            |
| D    | 22½ | 14½ | 18  | 14½ | 20½ | 16½ | 28½  | 17½ | 21½ | 24  | 26  | 31½  | 35½  | 27  | 6  | 14 | 35   | 31½  | 46   | 48½  | 24½                    | 1½         | 1            |
| E    | 25½ | 16½ | 20½ | 16½ | 23½ | 18½ | 32½  | 19½ | 24½ | 27½ | 29½ | 35½  | 40   | 30½ | 7  | 16 | 39½  | 35½  | 52½  | 54½  | 27½                    | 1½         | 1            |
| F    | 28½ | 18½ | 22½ | 18½ | 26½ | 20½ | 36½  | 22  | 26½ | 29½ | 33  | 39½  | 44   | 33½ | 8  | 18 | 44½  | 40½  | 58½  | 59½  | 30½                    | 1½         | 1            |
| G    | 32½ | 20½ | 24½ | 20½ | 30  | 22½ | 41   | 25½ | 29½ | 33½ | 37½ | 45   | 49½  | 37½ | 9  | 20 | 50½  | 45½  | 66½  | 67½  | 35                     | 2½         | 2            |
| H    | 36½ | 23½ | 28  | 23½ | 33½ | 25½ | 46   | 28½ | 33½ | 37½ | 42½ | 50½  | 57½  | 42½ | 10 | 22 | 57½  | 51½  | 74½  | 75½  | 39½                    | 2½         | 2            |
| J    | 40½ | 25½ | 30½ | 25½ | 37½ | 27½ | 50½  | 31½ | 36½ | 41½ | 46½ | 56½  | 62½  | 47½ | 12 | 24 | 63½  | 56½  | 82½  | 83½  | 43½                    | 2½         | 2            |
| K    | 46½ | 29½ | 34½ | 29½ | 43½ | 32½ | 58½  | 36  | 41½ | 46½ | 54  | 64½  | 71   | 52½ | 13 | 28 | 72½  | 64½  | 94   | 94   | 50½                    | 2½         | 2            |
| L    | 52½ | 33½ | 38½ | 33½ | 48½ | 36½ | 65½  | 40½ | 46½ | 52½ | 61  | 72½  | 81½  | 59½ | 14 | 32 | 82½  | 72½  | 106½ | 105½ | 56½                    | 3½         | 2            |
| M    | 58½ | 37½ | 42½ | 37½ | 54½ | 40  | 73½  | 45½ | 52½ | 58½ | 68  | 81   | 89½  | 65½ | 15 | 36 | 91½  | 80½  | 118½ | 118  | 63½                    | 3½         | 2            |
| N    | 64½ | 41½ | 46½ | 41½ | 59½ | 43½ | 81½  | 50  | 56½ | 62½ | 75  | 89½  | 99   | 70  | 15 | 40 | 101½ | 88½  | 131½ | 126½ | 69½                    | 3½         | 2            |
| P    | 70½ | 45½ | 50½ | 45½ | 65½ | 48½ | 88½  | 54½ | 61½ | 68½ | 82  | 97½  | 107½ | 76½ | 16 | 42 | 110½ | 95½  | 142½ | 137½ | 76                     | 4          | 2            |
| Q    | 76½ | 49½ | 55½ | 49½ | 71½ | 52½ | 95½  | 59½ | 67½ | 73½ | 89  | 106½ | 117½ | 81½ | 16 | 46 | 120½ | 104½ | 154½ | 149½ | 82½                    | 5          | 2            |
| R    | 81½ | 54½ | 60½ | 54½ | 78½ | 57½ | 105½ | 65½ | 73½ | 79½ | 98½ | 117½ | 128½ | 87½ | 16 | 48 | 132½ | 114½ | 170½ | 160½ | 91½                    | 5          | 1            |

Double Inlet

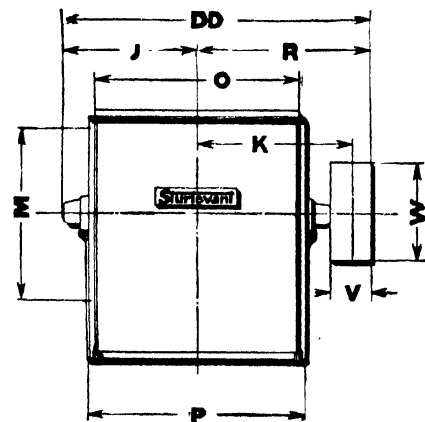
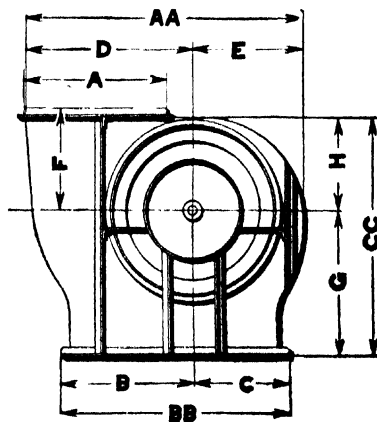
## Supervane Fan—Design 1

Double Width

Full Housing

Up Blast Discharge

Overhung Pulley



| Size | A   | B   | C   | D    | E   | F   | G   | H   | J   | K   | M   | O    | P    | R   | V  | W  | AA   | BB   | CC   | DD   | Extreme Wheel Diameter | Shaft Diameter | Anchor Bolts |
|------|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|------|------|-----|----|----|------|------|------|------|------------------------|----------------|--------------|
| A    | 13½ | 13½ | 9½  | 15½  | 10½ | 9½  | 13½ | 8½  | 14  | 15½ | 15½ | 18½  | 22½  | 17½ | 4  | 8  | 26   | 23   | 22½  | 31½  | 11½                    | 1½             | 1            |
| B    | 16½ | 15½ | 11½ | 19½  | 12½ | 12  | 16½ | 10½ | 16½ | 18½ | 19  | 22½  | 26½  | 21  | 5  | 10 | 32   | 27½  | 27½  | 37½  | 17½                    | 1½             | 1            |
| C    | 19½ | 18½ | 13½ | 23   | 15  | 13½ | 20  | 12½ | 19  | 21½ | 22½ | 27½  | 31½  | 24½ | 6  | 12 | 38   | 32½  | 32½  | 43½  | 20½                    | 1½             | 1            |
| D    | 22½ | 21½ | 15½ | 26½  | 17½ | 16½ | 22½ | 14½ | 21½ | 24  | 26  | 31½  | 35½  | 27  | 6  | 14 | 43½  | 37   | 37½  | 48½  | 24½                    | 1½             | 1            |
| E    | 25½ | 24  | 17½ | 30½  | 19½ | 18½ | 25½ | 16½ | 24½ | 27½ | 29½ | 35½  | 40   | 30½ | 7  | 16 | 49½  | 41½  | 42   | 51½  | 27½                    | 1½             | 1            |
| F    | 28½ | 26½ | 19  | 33½  | 22  | 20½ | 28½ | 18½ | 26½ | 29½ | 33  | 39½  | 44   | 33½ | 8  | 18 | 55½  | 45½  | 46½  | 59½  | 30½                    | 1½             | 1            |
| G    | 32½ | 30  | 21½ | 38½  | 25½ | 22½ | 32½ | 20½ | 29½ | 33½ | 37½ | 45   | 49½  | 37½ | 9  | 20 | 63½  | 51½  | 53½  | 67½  | 35                     | 2½             | 2            |
| H    | 36½ | 34½ | 24½ | 43½  | 28½ | 25½ | 36½ | 23½ | 33½ | 37½ | 42½ | 50½  | 57½  | 42½ | 10 | 22 | 71½  | 59   | 59½  | 75½  | 39½                    | 2½             | 2            |
| J    | 40½ | 38½ | 27  | 48½  | 31½ | 27½ | 40  | 25½ | 36½ | 41½ | 46½ | 56½  | 62½  | 47½ | 12 | 24 | 79½  | 65½  | 65½  | 83½  | 43½                    | 2½             | 2            |
| K    | 46½ | 43½ | 30½ | 55½  | 36  | 32½ | 45½ | 29½ | 41½ | 46½ | 54  | 64½  | 71   | 52½ | 13 | 28 | 91½  | 74   | 75½  | 94   | 50½                    | 2½             | 2            |
| L    | 52½ | 49½ | 35  | 62½  | 40½ | 36½ | 51½ | 33½ | 46½ | 52½ | 61  | 72½  | 81½  | 59½ | 14 | 32 | 103½ | 84½  | 85½  | 105½ | 56½                    | 3½             | 2            |
| M    | 58½ | 54½ | 38½ | 69½  | 45½ | 40  | 57½ | 37½ | 52½ | 58½ | 68  | 81   | 89½  | 65½ | 15 | 36 | 115½ | 93   | 95½  | 118  | 63½                    | 3½             | 2            |
| N    | 64½ | 60½ | 46½ | 77½  | 50  | 43½ | 64  | 41½ | 56½ | 62½ | 75  | 89½  | 99   | 70  | 15 | 40 | 127½ | 106½ | 105½ | 126½ | 69½                    | 3½             | 2            |
| P    | 70½ | 65  | 50½ | 84½  | 54½ | 48½ | 69½ | 45½ | 61½ | 68½ | 82  | 97½  | 107½ | 76½ | 16 | 42 | 138½ | 115½ | 114½ | 137½ | 76                     | 4½             | 2            |
| Q    | 76½ | 72  | 55½ | 91½  | 59½ | 52½ | 75½ | 49½ | 67½ | 73½ | 89  | 106½ | 117½ | 81½ | 16 | 46 | 150½ | 127½ | 124½ | 149½ | 82½                    | 5              | 2            |
| R    | 81½ | 78  | 60½ | 101½ | 65½ | 57½ | 82½ | 54½ | 73  | 79½ | 98½ | 117½ | 128½ | 87½ | 16 | 48 | 166½ | 138½ | 137  | 160½ | 91½                    | 5              | 1            |

Double Inlet

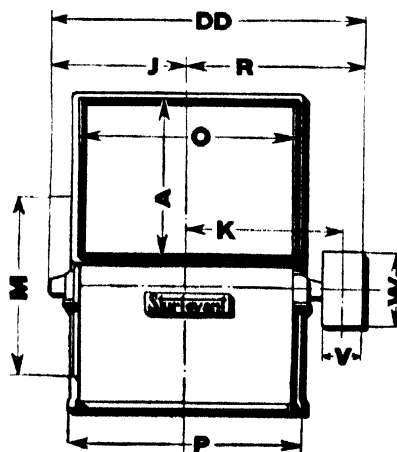
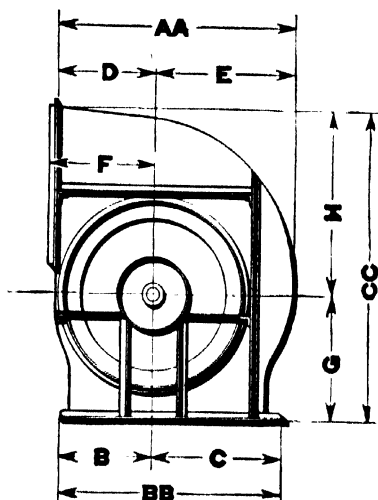
## Supervane Fan—Design 1

Double Width

Full Housing

Top Horizontal Discharge

Overhung Pulley



| Size | A   | B   | C   | D   | E   | F   | G   | H    | J   | K   | M   | O    | P    | R   | V  | W  | AA   | BB   | CC   | DD   | Extreme Wheel Dia. | Shaft Diameter | Anchor Bolts |
|------|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|------|------|-----|----|----|------|------|------|------|--------------------|----------------|--------------|
| A    | 13½ | 8½  | 11½ | 8½  | 12½ | 9½  | 11½ | 15½  | 14  | 15½ | 15½ | 18½  | 22½  | 17½ | 4  | 8  | 20½  | 19½  | 27½  | 31½  | 14½                | 1½             | 1            |
| B    | 16½ | 10  | 13½ | 10½ | 15½ | 12  | 14½ | 19½  | 16½ | 18½ | 19  | 22½  | 28½  | 21  | 5  | 10 | 25½  | 23½  | 33½  | 37½  | 17½                | 1½             | 1            |
| C    | 19½ | 12  | 15½ | 12½ | 17½ | 13½ | 17  | 23   | 19  | 21½ | 22½ | 27½  | 31½  | 24  | 6  | 12 | 30½  | 27½  | 40   | 43½  | 20½                | 1½             | 1            |
| D    | 22½ | 13½ | 18  | 14½ | 20½ | 16½ | 19½ | 26½  | 21½ | 24  | 26  | 31½  | 35½  | 27  | 6  | 14 | 35   | 31½  | 45½  | 48½  | 24½                | 1½             | 1            |
| E    | 25½ | 15  | 20½ | 16½ | 23½ | 18½ | 21½ | 30½  | 24½ | 27½ | 29  | 35½  | 40   | 30½ | 7  | 16 | 39½  | 35½  | 52   | 54½  | 27½                | 1½             | 1            |
| F    | 28½ | 16½ | 22½ | 18½ | 26½ | 20½ | 22½ | 33½  | 26½ | 29  | 33  | 39½  | 44   | 33½ | 8  | 18 | 44½  | 38½  | 56½  | 59½  | 30½                | 1½             | 1            |
| G    | 32½ | 18  | 24½ | 20½ | 30  | 22½ | 27½ | 38½  | 29½ | 33½ | 37½ | 45   | 49½  | 37½ | 9  | 20 | 50½  | 42½  | 66½  | 67½  | 35                 | 2½             | 1            |
| H    | 36½ | 21  | 28  | 23½ | 33½ | 25½ | 30½ | 43½  | 33½ | 37½ | 42½ | 50½  | 57½  | 42½ | 10 | 22 | 57½  | 49   | 74½  | 75½  | 39½                | 2½             | 1            |
| J    | 40½ | 23  | 30½ | 25½ | 37½ | 27½ | 34  | 48½  | 36½ | 41½ | 46½ | 56½  | 62½  | 47½ | 12 | 24 | 63½  | 53½  | 82½  | 83½  | 43½                | 2½             | 1            |
| K    | 46½ | 25½ | 34½ | 29½ | 43½ | 32½ | 38½ | 55½  | 41½ | 46½ | 54  | 64½  | 71   | 52½ | 13 | 28 | 72½  | 59½  | 94½  | 94   | 50½                | 2½             | 1            |
| L    | 52½ | 29½ | 38½ | 33½ | 48½ | 36½ | 43½ | 62½  | 46½ | 52½ | 61  | 72½  | 81½  | 59½ | 14 | 32 | 82½  | 68½  | 106½ | 105½ | 56½                | 3½             | 1            |
| M    | 58½ | 32½ | 42½ | 37½ | 54½ | 40  | 48½ | 69½  | 52½ | 58½ | 68  | 81   | 89½  | 65½ | 15 | 36 | 91½  | 75½  | 118½ | 118  | 63½                | 3½             | 1            |
| N    | 64½ | 46½ | 46½ | 41½ | 59½ | 43½ | 54  | 77½  | 56½ | 62½ | 75  | 89½  | 99   | 70  | 15 | 40 | 101½ | 93½  | 131½ | 126½ | 69½                | 3½             | 1            |
| P    | 70½ | 50½ | 50½ | 45½ | 65½ | 48½ | 58½ | 84½  | 61½ | 68½ | 82  | 97½  | 107½ | 76½ | 16 | 42 | 110½ | 100½ | 143  | 137½ | 76                 | 4½             | 1            |
| Q    | 76½ | 55½ | 55½ | 49½ | 71½ | 52½ | 63½ | 91½  | 67½ | 73½ | 89  | 106½ | 117½ | 81½ | 16 | 46 | 120½ | 110½ | 155  | 149½ | 82½                | 5              | 1            |
| R    | 84½ | 60½ | 60½ | 54½ | 78½ | 57½ | 69½ | 101½ | 73  | 79½ | 98½ | 117½ | 128½ | 87½ | 16 | 48 | 132½ | 120½ | 170½ | 160½ | 91½                | 5              | 1            |



Double Inlet

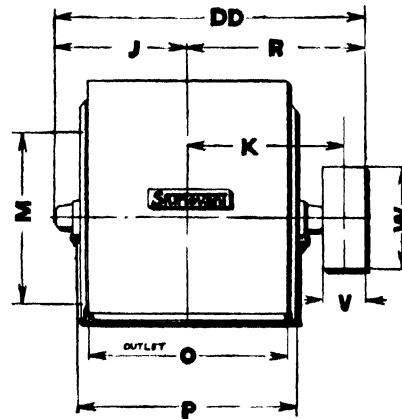
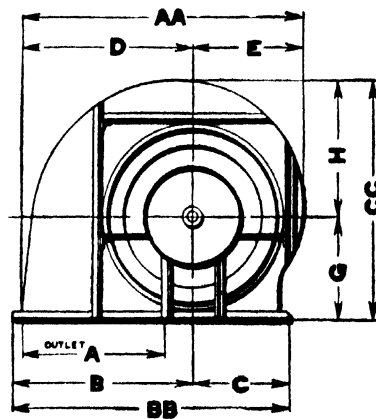
## Supervane Fan—Design 1

Double Width

Full Housing

Down Blast Discharge

Overhung Pulley



| Size | A  | B    | C   | D    | E   | G   | H   | J   | K   | M   | O    | P    | R   | V  | W  | AA   | BB   | CC   | DD   | Extreme Wheel Diameter | Shaft Diameter | Anchor Bolts |
|------|----|------|-----|------|-----|-----|-----|-----|-----|-----|------|------|-----|----|----|------|------|------|------|------------------------|----------------|--------------|
| A    | 13 | 17½  | 9½  | 15½  | 10½ | 10  | 12½ | 14  | 15½ | 15½ | 18   | 22½  | 17½ | 4  | 8  | 26   | 27½  | 22½  | 31½  | 14½                    | 1½             | ½            |
| B    | 16 | 21½  | 11½ | 19½  | 12½ | 12½ | 15½ | 16½ | 18½ | 19  | 22½  | 26½  | 21  | 5  | 10 | 32   | 32½  | 27½  | 37½  | 17½                    | 1½             | ½            |
| C    | 19 | 25½  | 13½ | 23   | 15  | 14½ | 17½ | 19  | 21½ | 22½ | 26½  | 31½  | 24½ | 6  | 12 | 38   | 39½  | 32½  | 43½  | 20½                    | 1½             | ½            |
| D    | 22 | 29½  | 15½ | 26½  | 17½ | 16½ | 20½ | 21½ | 24  | 26  | 30½  | 35½  | 27  | 6  | 14 | 43½  | 44½  | 37½  | 48½  | 24½                    | 1½             | ½            |
| E    | 25 | 32½  | 17½ | 30½  | 19½ | 18½ | 23½ | 24½ | 27½ | 29½ | 34½  | 40   | 30½ | 7  | 16 | 49½  | 50   | 42   | 54½  | 27½                    | 1½             | ½            |
| F    | 28 | 36½  | 19½ | 33½  | 22  | 20½ | 26½ | 26½ | 29½ | 33  | 38½  | 44   | 33½ | 8  | 18 | 55½  | 55½  | 46½  | 59½  | 30½                    | 1½             | ½            |
| G    | 32 | 41½  | 21½ | 38½  | 25½ | 23½ | 30  | 29½ | 33½ | 37½ | 44½  | 49½  | 37½ | 9  | 20 | 63½  | 62½  | 53½  | 67½  | 35                     | 2½             | ½            |
| H    | 36 | 46½  | 24½ | 43½  | 28½ | 26½ | 33½ | 33½ | 37½ | 42½ | 50   | 57½  | 42½ | 10 | 22 | 71½  | 71½  | 59½  | 75½  | 39½                    | 2½             | ½            |
| J    | 40 | 51½  | 27½ | 48½  | 31½ | 28½ | 37½ | 36½ | 41½ | 46½ | 55½  | 62½  | 47½ | 12 | 24 | 79½  | 78½  | 66   | 83½  | 43½                    | 2½             | ½            |
| K    | 46 | 59   | 30½ | 55½  | 36  | 32½ | 43½ | 41½ | 46½ | 54  | 63½  | 71   | 52½ | 13 | 28 | 91½  | 89½  | 75½  | 94   | 50½                    | 2½             | ½            |
| L    | 52 | 67½  | 35  | 62½  | 40½ | 36½ | 48½ | 46½ | 52½ | 61  | 72   | 81½  | 59½ | 14 | 32 | 103½ | 102½ | 85½  | 105½ | 56½                    | 3½             | ½            |
| M    | 58 | 74½  | 38½ | 69½  | 45½ | 41  | 54½ | 52½ | 58½ | 68  | 80½  | 89½  | 65½ | 15 | 36 | 115½ | 112½ | 95½  | 118  | 63½                    | 3½             | ½            |
| N    | 64 | 82½  | 46½ | 77½  | 50½ | 45½ | 59½ | 56½ | 62½ | 75  | 88½  | 99   | 70  | 15 | 40 | 127½ | 128½ | 105½ | 126½ | 69½                    | 3½             | ½            |
| P    | 70 | 89½  | 50½ | 84½  | 54½ | 49½ | 65½ | 61½ | 68½ | 82  | 97   | 107½ | 76½ | 16 | 42 | 138½ | 139½ | 114½ | 137½ | 76                     | 4½             | ½            |
| Q    | 76 | 97½  | 55½ | 91½  | 59½ | 53½ | 71½ | 67½ | 73½ | 89  | 105½ | 117½ | 81½ | 16 | 46 | 150½ | 152½ | 124½ | 149½ | 82½                    | 5              | ½            |
| R    | 84 | 107½ | 60½ | 101½ | 65½ | 58½ | 78½ | 73½ | 79½ | 98½ | 116½ | 128½ | 87½ | 16 | 48 | 166½ | 167½ | 136½ | 160½ | 91½                    | 5              | 1            |

Double Inlet

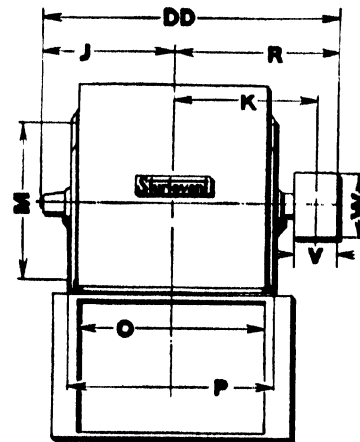
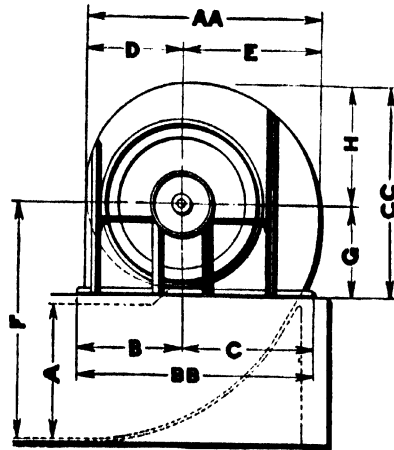
## Supervane Fan—Design 1

Double Width

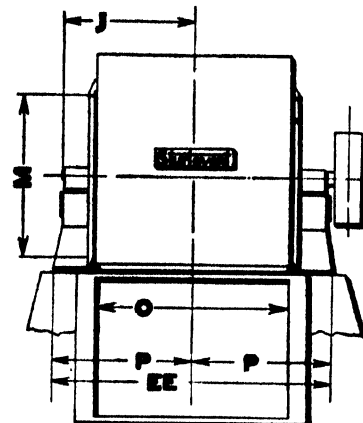
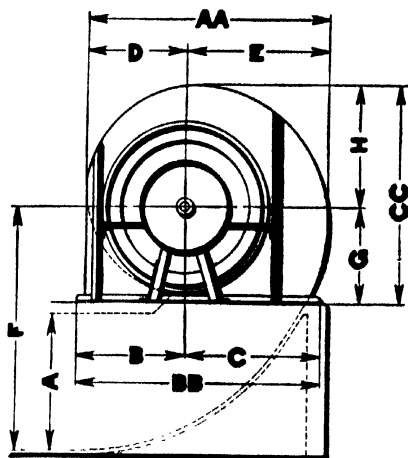
 $\frac{7}{8}$  Housing

Bottom Horizontal Discharge

Overhung Pulley



| Size | A  | B                | C                | D                | E                | F                 | G                | H                | J                | K                | M                | O                 | P                 | R                | V  | W  | AA                | BB                | CC                | DD                | Extreme Wheel Diameter | Shaft Diameter  | Anchor Bolts |
|------|----|------------------|------------------|------------------|------------------|-------------------|------------------|------------------|------------------|------------------|------------------|-------------------|-------------------|------------------|----|----|-------------------|-------------------|-------------------|-------------------|------------------------|-----------------|--------------|
| J    | 40 | 31 $\frac{1}{2}$ | 38 $\frac{1}{2}$ | 27 $\frac{1}{2}$ | 40 $\frac{1}{2}$ | 72                | 28               | 33 $\frac{1}{2}$ | 36 $\frac{1}{2}$ | 41 $\frac{1}{2}$ | 46 $\frac{1}{2}$ | 55 $\frac{1}{2}$  | 62 $\frac{1}{2}$  | 47 $\frac{1}{2}$ | 12 | 24 | 67 $\frac{1}{2}$  | 69 $\frac{1}{2}$  | 61 $\frac{1}{2}$  | 83 $\frac{1}{2}$  | 43 $\frac{1}{2}$       | 2 $\frac{1}{2}$ | 7            |
| K    | 46 | 35 $\frac{1}{2}$ | 43 $\frac{1}{2}$ | 31 $\frac{1}{2}$ | 46 $\frac{1}{2}$ | 82                | 32               | 38 $\frac{1}{2}$ | 41 $\frac{1}{2}$ | 46 $\frac{1}{2}$ | 54               | 63 $\frac{1}{2}$  | 71                | 52 $\frac{1}{2}$ | 13 | 28 | 78                | 79                | 70 $\frac{1}{2}$  | 94                | 50 $\frac{1}{2}$       | 2 $\frac{1}{2}$ | 7            |
| L    | 52 | 40 $\frac{1}{2}$ | 50 $\frac{1}{2}$ | 35 $\frac{1}{2}$ | 52 $\frac{1}{2}$ | 92                | 36               | 43 $\frac{1}{2}$ | 46 $\frac{1}{2}$ | 52 $\frac{1}{2}$ | 61               | 72                | 81 $\frac{1}{2}$  | 59 $\frac{1}{2}$ | 14 | 32 | 88                | 90 $\frac{1}{2}$  | 79 $\frac{1}{2}$  | 105 $\frac{1}{2}$ | 56 $\frac{1}{2}$       | 3 $\frac{1}{2}$ | 7            |
| M    | 58 | 44 $\frac{1}{2}$ | 55 $\frac{1}{2}$ | 40               | 58 $\frac{1}{2}$ | 102               | 40               | 48 $\frac{1}{2}$ | 52 $\frac{1}{2}$ | 58 $\frac{1}{2}$ | 68               | 80 $\frac{1}{2}$  | 89 $\frac{1}{2}$  | 65 $\frac{1}{2}$ | 15 | 36 | 98 $\frac{1}{2}$  | 100               | 88 $\frac{1}{2}$  | 118               | 63 $\frac{1}{2}$       | 3 $\frac{1}{2}$ | 7            |
| N    | 64 | 49 $\frac{1}{2}$ | 61 $\frac{1}{2}$ | 44 $\frac{1}{2}$ | 64 $\frac{1}{2}$ | 112 $\frac{1}{2}$ | 44 $\frac{1}{2}$ | 53 $\frac{1}{2}$ | 56 $\frac{1}{2}$ | 62 $\frac{1}{2}$ | 75               | 88 $\frac{1}{2}$  | 99                | 70               | 15 | 40 | 108 $\frac{1}{2}$ | 110 $\frac{1}{2}$ | 97 $\frac{1}{2}$  | 126 $\frac{1}{2}$ | 69 $\frac{1}{2}$       | 3 $\frac{1}{2}$ | 7            |
| P    | 70 | 53 $\frac{1}{2}$ | 66 $\frac{1}{2}$ | 48 $\frac{1}{2}$ | 70 $\frac{1}{2}$ | 122               | 48               | 58 $\frac{1}{2}$ | 61 $\frac{1}{2}$ | 68 $\frac{1}{2}$ | 82               | 97                | 107 $\frac{1}{2}$ | 76 $\frac{1}{2}$ | 16 | 42 | 118 $\frac{1}{2}$ | 120               | 106 $\frac{1}{2}$ | 137 $\frac{1}{2}$ | 76                     | 4 $\frac{1}{2}$ | 7            |
| Q    | 76 | 58 $\frac{1}{2}$ | 73 $\frac{1}{2}$ | 52 $\frac{1}{2}$ | 76 $\frac{1}{2}$ | 131 $\frac{1}{2}$ | 51 $\frac{1}{2}$ | 63 $\frac{1}{2}$ | 67 $\frac{1}{2}$ | 73 $\frac{1}{2}$ | 89               | 105 $\frac{1}{2}$ | 117 $\frac{1}{2}$ | 81 $\frac{1}{2}$ | 16 | 46 | 128 $\frac{1}{2}$ | 131 $\frac{1}{2}$ | 114 $\frac{1}{2}$ | 149 $\frac{1}{2}$ | 82 $\frac{1}{2}$       | 5               | 7            |
| R    | 84 | 63 $\frac{1}{2}$ | 80               | 57 $\frac{1}{2}$ | 81 $\frac{1}{2}$ | 141 $\frac{1}{2}$ | 56 $\frac{1}{2}$ | 69 $\frac{1}{2}$ | 73               | 79 $\frac{1}{2}$ | 98 $\frac{1}{2}$ | 116 $\frac{1}{2}$ | 128 $\frac{1}{2}$ | 87 $\frac{1}{2}$ | 16 | 48 | 142 $\frac{1}{2}$ | 143 $\frac{1}{2}$ | 126 $\frac{1}{2}$ | 160 $\frac{1}{2}$ | 91 $\frac{1}{2}$       | 5               | 1            |



| Size | A   | B                 | C                 | D                 | E                 | F                 | G                | H                 | J                 | M                 | O                 | P                 | AA                | BB                | CC                | EE                | Extreme Wheel Diameter | Shaft Diameter | Anchor Bolts    |
|------|-----|-------------------|-------------------|-------------------|-------------------|-------------------|------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------------------------|----------------|-----------------|
| S    | 92  | 69 $\frac{1}{2}$  | 87 $\frac{1}{2}$  | 63 $\frac{1}{2}$  | 92 $\frac{1}{2}$  | 157               | 61               | 76 $\frac{1}{2}$  | 87 $\frac{1}{2}$  | 107 $\frac{1}{2}$ | 127 $\frac{1}{2}$ | 89 $\frac{1}{2}$  | 155 $\frac{1}{2}$ | 156 $\frac{1}{2}$ | 137 $\frac{1}{2}$ | 178 $\frac{1}{2}$ | 99 $\frac{1}{2}$       | 6              | 1               |
| T    | 100 | 74 $\frac{1}{2}$  | 94 $\frac{1}{2}$  | 68 $\frac{1}{2}$  | 100 $\frac{1}{2}$ | 170               | 66               | 83                | 93                | 117 $\frac{1}{2}$ | 138 $\frac{1}{2}$ | 95 $\frac{1}{2}$  | 169 $\frac{1}{2}$ | 169 $\frac{1}{2}$ | 149 $\frac{1}{2}$ | 191 $\frac{1}{2}$ | 108 $\frac{1}{2}$      | 6              | 1               |
| U    | 108 | 80 $\frac{1}{2}$  | 101 $\frac{1}{2}$ | 74 $\frac{1}{2}$  | 108 $\frac{1}{2}$ | 182 $\frac{1}{2}$ | 70 $\frac{1}{2}$ | 89 $\frac{1}{2}$  | 98 $\frac{1}{2}$  | 126 $\frac{1}{2}$ | 149 $\frac{1}{2}$ | 101 $\frac{1}{2}$ | 182 $\frac{1}{2}$ | 181 $\frac{1}{2}$ | 160               | 203 $\frac{1}{2}$ | 117 $\frac{1}{2}$      | 6              | 1               |
| V    | 116 | 85 $\frac{1}{2}$  | 109 $\frac{1}{2}$ | 79 $\frac{1}{2}$  | 116 $\frac{1}{2}$ | 195               | 75               | 96 $\frac{1}{2}$  | 110 $\frac{1}{2}$ | 135 $\frac{1}{2}$ | 160 $\frac{1}{2}$ | 114 $\frac{1}{2}$ | 196               | 195 $\frac{1}{2}$ | 171 $\frac{1}{2}$ | 228 $\frac{1}{2}$ | 125 $\frac{1}{2}$      | 8              | 1               |
| W    | 128 | 94 $\frac{1}{2}$  | 120 $\frac{1}{2}$ | 88 $\frac{1}{2}$  | 128 $\frac{1}{2}$ | 214               | 82               | 106 $\frac{1}{2}$ | 118 $\frac{1}{2}$ | 149 $\frac{1}{2}$ | 177 $\frac{1}{2}$ | 123 $\frac{1}{2}$ | 216 $\frac{1}{2}$ | 214 $\frac{1}{2}$ | 188 $\frac{1}{2}$ | 247 $\frac{1}{2}$ | 138 $\frac{1}{2}$      | 8              | 1               |
| X    | 140 | 102 $\frac{1}{2}$ | 130               | 96 $\frac{1}{2}$  | 140 $\frac{1}{2}$ | 234               | 90               | 116 $\frac{1}{2}$ | 126 $\frac{1}{2}$ | 163 $\frac{1}{2}$ | 193 $\frac{1}{2}$ | 133               | 236 $\frac{1}{2}$ | 232 $\frac{1}{2}$ | 206 $\frac{1}{2}$ | 266               | 151 $\frac{1}{2}$      | 8              | 1 $\frac{1}{2}$ |
| Y    | 152 | 110 $\frac{1}{2}$ | 141               | 104 $\frac{1}{2}$ | 152 $\frac{1}{2}$ | 253               | 97               | 126               | 135 $\frac{1}{2}$ | 177 $\frac{1}{2}$ | 210 $\frac{1}{2}$ | 142 $\frac{1}{2}$ | 256 $\frac{1}{2}$ | 251 $\frac{1}{2}$ | 223               | 284 $\frac{1}{2}$ | 164 $\frac{1}{2}$      | 8              | 1 $\frac{1}{2}$ |

Double Inlet

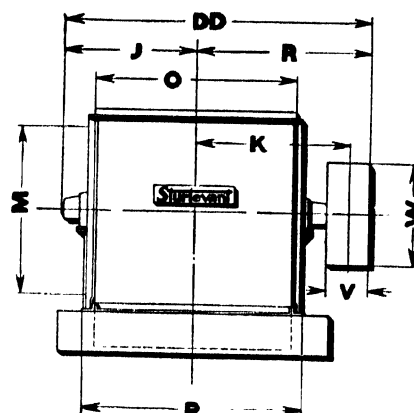
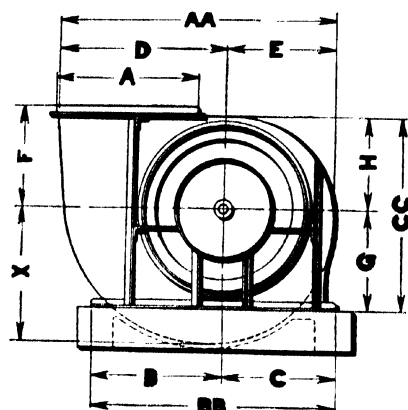
## Supervane Fan—Design 1

Double Width

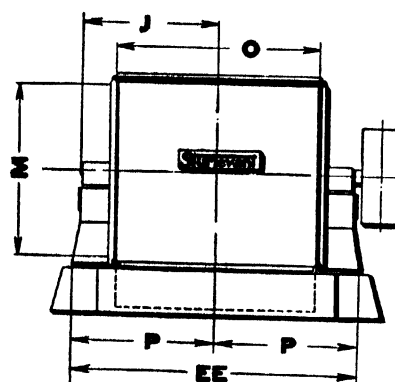
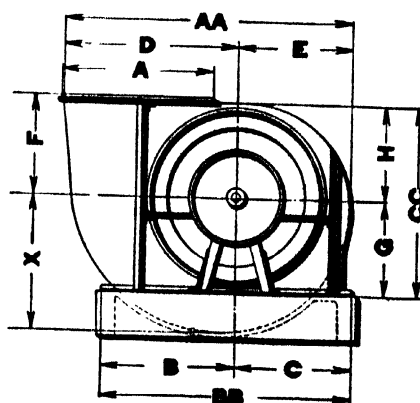
 $\frac{7}{8}$  Housing

Up Blast Discharge

Overhung Pulley



| Size | A   | B   | C   | D    | E   | F   | G   | H   | J   | K   | M   | O    | P    | R   | V  | W  | X   | AA   | BB   | CC   | DD   | Extreme Wheel Diameter | Shaft Diameter | Anchor Bolts |
|------|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|------|------|-----|----|----|-----|------|------|------|------|------------------------|----------------|--------------|
| J    | 40½ | 37  | 27  | 48½  | 31½ | 27½ | 28  | 25½ | 36½ | 41½ | 46½ | 56½  | 62½  | 47½ | 12 | 24 | 37½ | 79½  | 61   | 53½  | 83½  | 43½                    | 2½             | 1            |
| K    | 46½ | 41½ | 30½ | 55½  | 36½ | 32½ | 32  | 29½ | 41½ | 46½ | 54  | 64½  | 71   | 52½ | 13 | 28 | 43½ | 91½  | 72½  | 61   | 91   | 50½                    | 2½             | 1            |
| L    | 52½ | 48½ | 35  | 62½  | 40½ | 36½ | 36  | 33½ | 46½ | 52½ | 61  | 72½  | 81½  | 59½ | 14 | 32 | 48½ | 103½ | 83½  | 69½  | 105½ | 56½                    | 3½             | 1            |
| M    | 58½ | 53  | 38½ | 69½  | 45½ | 40  | 40  | 37½ | 52½ | 58½ | 68  | 81   | 89½  | 65½ | 15 | 36 | 54½ | 115½ | 91½  | 77½  | 118  | 63½                    | 3½             | 1            |
| N    | 64½ | 59  | 46½ | 77½  | 50  | 43½ | 44½ | 41½ | 56½ | 62½ | 75  | 89½  | 99   | 70  | 15 | 40 | 59½ | 127½ | 105½ | 85½  | 126½ | 69½                    | 3½             | 1            |
| P    | 70½ | 64  | 50½ | 84½  | 54½ | 48½ | 48  | 45½ | 61½ | 68½ | 82  | 97½  | 107½ | 76½ | 16 | 42 | 65½ | 138½ | 114½ | 93½  | 137½ | 76                     | 4½             | 1            |
| Q    | 76½ | 70½ | 55½ | 91½  | 59½ | 52½ | 51½ | 49½ | 67½ | 73½ | 89  | 106½ | 117½ | 81½ | 16 | 46 | 71½ | 150½ | 125½ | 100½ | 149½ | 82½                    | 5              | 1            |
| R    | 81½ | 77  | 60½ | 101½ | 65½ | 57½ | 56½ | 54½ | 73½ | 79½ | 98½ | 117½ | 128½ | 87½ | 16 | 48 | 78½ | 166½ | 137½ | 110½ | 160½ | 91½                    | 5              | 1            |



| Size | A    | B    | C   | D    | E    | F   | G   | H   | J    | M    | O    | P    | X    | AA   | BB   | CC   | EE   | Extreme Wheel Diameter | Shaft Diameter | Anchor Bolts |
|------|------|------|-----|------|------|-----|-----|-----|------|------|------|------|------|------|------|------|------|------------------------|----------------|--------------|
| S    | 92½  | 81   | 65½ | 110½ | 71½  | 63½ | 61  | 59½ | 87½  | 107½ | 128½ | 89½  | 86   | 182½ | 149½ | 120½ | 178½ | 99½                    | 6              | 1            |
| T    | 100½ | 91   | 70½ | 120½ | 78½  | 69½ | 66  | 64½ | 93   | 117½ | 139½ | 95½  | 93½  | 198½ | 161½ | 130½ | 191½ | 108½                   | 6              | 1            |
| U    | 108½ | 97½  | 75½ | 130½ | 84½  | 74½ | 70½ | 69½ | 98½  | 126½ | 150½ | 101½ | 100½ | 214½ | 173½ | 140½ | 203½ | 117½                   | 6              | 1            |
| V    | 116½ | 105½ | 80½ | 139½ | 90½  | 89½ | 75  | 74½ | 110½ | 135½ | 161½ | 114½ | 108½ | 230½ | 186½ | 149½ | 228½ | 125½                   | 8              | 1            |
| W    | 128½ | 116½ | 88½ | 154  | 99½  | 87½ | 82  | 82½ | 118½ | 149½ | 178½ | 123½ | 119½ | 253½ | 205½ | 164½ | 247½ | 138½                   | 8              | 1            |
| X    | 140½ | 125½ | 96½ | 168½ | 109½ | 95½ | 90  | 90½ | 126½ | 163½ | 191½ | 133  | 130½ | 277½ | 221½ | 180½ | 266  | 151½                   | 8              | 1            |
| Y    | 152½ | 136  | 104 | 182½ | 118½ | 103 | 97  | 98  | 135½ | 177½ | 211½ | 142½ | 142  | 301½ | 240  | 195  | 284½ | 164½                   | 8              | 1            |

Double Inlet

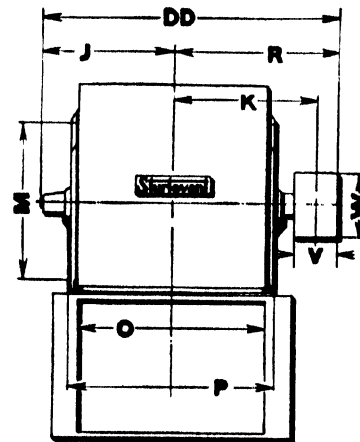
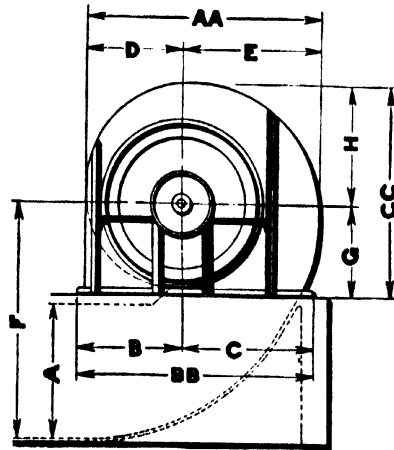
## Supervane Fan—Design 1

Double Width

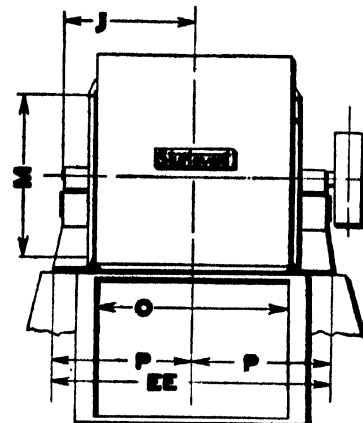
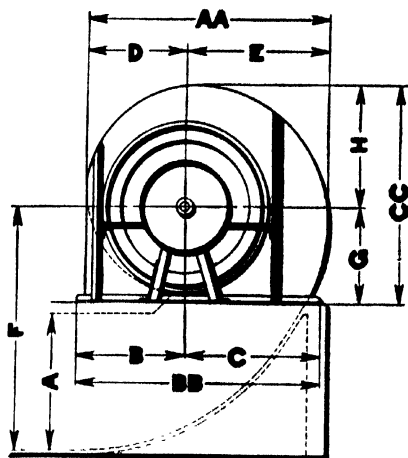
 $\frac{7}{8}$  Housing

Bottom Horizontal Discharge

Overhung Pulley



| Size | A  | B                | C                | D                | E                | F                 | G                | H                | J                | K                | M                | O                 | P                 | R                | V  | W  | AA                | BB                | CC                | DD                | Extreme Wheel Diameter | Shaft Diameter  | Anchor Bolts |
|------|----|------------------|------------------|------------------|------------------|-------------------|------------------|------------------|------------------|------------------|------------------|-------------------|-------------------|------------------|----|----|-------------------|-------------------|-------------------|-------------------|------------------------|-----------------|--------------|
| J    | 40 | 31 $\frac{1}{2}$ | 38 $\frac{1}{2}$ | 27 $\frac{1}{2}$ | 40 $\frac{1}{2}$ | 72                | 28               | 33 $\frac{1}{2}$ | 36 $\frac{1}{2}$ | 41 $\frac{1}{2}$ | 46 $\frac{1}{2}$ | 55 $\frac{1}{2}$  | 62 $\frac{1}{2}$  | 47 $\frac{1}{2}$ | 12 | 24 | 67 $\frac{1}{2}$  | 69 $\frac{1}{2}$  | 61 $\frac{1}{2}$  | 83 $\frac{1}{2}$  | 43 $\frac{1}{2}$       | 2 $\frac{1}{2}$ | 7            |
| K    | 46 | 35 $\frac{1}{2}$ | 43 $\frac{1}{2}$ | 31 $\frac{1}{2}$ | 46 $\frac{1}{2}$ | 82                | 32               | 38 $\frac{1}{2}$ | 41 $\frac{1}{2}$ | 46 $\frac{1}{2}$ | 54               | 63 $\frac{1}{2}$  | 71                | 52 $\frac{1}{2}$ | 13 | 28 | 78                | 79                | 70 $\frac{1}{2}$  | 94                | 50 $\frac{1}{2}$       | 2 $\frac{1}{2}$ | 7            |
| L    | 52 | 40 $\frac{1}{2}$ | 50 $\frac{1}{2}$ | 35 $\frac{1}{2}$ | 52 $\frac{1}{2}$ | 92                | 36               | 43 $\frac{1}{2}$ | 46 $\frac{1}{2}$ | 52 $\frac{1}{2}$ | 61               | 72                | 81 $\frac{1}{2}$  | 59 $\frac{1}{2}$ | 14 | 32 | 88                | 90 $\frac{1}{2}$  | 79 $\frac{1}{2}$  | 105 $\frac{1}{2}$ | 56 $\frac{1}{2}$       | 3 $\frac{1}{2}$ | 7            |
| M    | 58 | 44 $\frac{1}{2}$ | 55 $\frac{1}{2}$ | 40               | 58 $\frac{1}{2}$ | 102               | 40               | 48 $\frac{1}{2}$ | 52 $\frac{1}{2}$ | 58 $\frac{1}{2}$ | 68               | 80 $\frac{1}{2}$  | 89 $\frac{1}{2}$  | 65 $\frac{1}{2}$ | 15 | 36 | 98 $\frac{1}{2}$  | 100               | 88 $\frac{1}{2}$  | 118               | 63 $\frac{1}{2}$       | 3 $\frac{1}{2}$ | 7            |
| N    | 64 | 49 $\frac{1}{2}$ | 61 $\frac{1}{2}$ | 44 $\frac{1}{2}$ | 64 $\frac{1}{2}$ | 112 $\frac{1}{2}$ | 44 $\frac{1}{2}$ | 53 $\frac{1}{2}$ | 56 $\frac{1}{2}$ | 62 $\frac{1}{2}$ | 75               | 88 $\frac{1}{2}$  | 99                | 70               | 15 | 40 | 108 $\frac{1}{2}$ | 110 $\frac{1}{2}$ | 97 $\frac{1}{2}$  | 126 $\frac{1}{2}$ | 69 $\frac{1}{2}$       | 3 $\frac{1}{2}$ | 7            |
| P    | 70 | 53 $\frac{1}{2}$ | 66 $\frac{1}{2}$ | 48 $\frac{1}{2}$ | 70 $\frac{1}{2}$ | 122               | 48               | 58 $\frac{1}{2}$ | 61 $\frac{1}{2}$ | 68 $\frac{1}{2}$ | 82               | 97                | 107 $\frac{1}{2}$ | 76 $\frac{1}{2}$ | 16 | 42 | 118 $\frac{1}{2}$ | 120               | 106 $\frac{1}{2}$ | 137 $\frac{1}{2}$ | 76                     | 4 $\frac{1}{2}$ | 7            |
| Q    | 76 | 58 $\frac{1}{2}$ | 73 $\frac{1}{2}$ | 52 $\frac{1}{2}$ | 76 $\frac{1}{2}$ | 131 $\frac{1}{2}$ | 51 $\frac{1}{2}$ | 63 $\frac{1}{2}$ | 67 $\frac{1}{2}$ | 73 $\frac{1}{2}$ | 89               | 105 $\frac{1}{2}$ | 117 $\frac{1}{2}$ | 81 $\frac{1}{2}$ | 16 | 46 | 128 $\frac{1}{2}$ | 131 $\frac{1}{2}$ | 114 $\frac{1}{2}$ | 149 $\frac{1}{2}$ | 82 $\frac{1}{2}$       | 5               | 7            |
| R    | 84 | 63 $\frac{1}{2}$ | 80               | 57 $\frac{1}{2}$ | 81 $\frac{1}{2}$ | 141 $\frac{1}{2}$ | 56 $\frac{1}{2}$ | 69 $\frac{1}{2}$ | 73               | 79 $\frac{1}{2}$ | 98 $\frac{1}{2}$ | 116 $\frac{1}{2}$ | 128 $\frac{1}{2}$ | 87 $\frac{1}{2}$ | 16 | 48 | 142 $\frac{1}{2}$ | 143 $\frac{1}{2}$ | 126 $\frac{1}{2}$ | 160 $\frac{1}{2}$ | 91 $\frac{1}{2}$       | 5               | 1            |



| Size | A   | B                 | C                 | D                 | E                 | F                 | G                | H                 | J                 | M                 | O                 | P                 | AA                | BB                | CC                | EE                | Extreme Wheel Diameter | Shaft Diameter | Anchor Bolts    |
|------|-----|-------------------|-------------------|-------------------|-------------------|-------------------|------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------------------------|----------------|-----------------|
| S    | 92  | 69 $\frac{1}{2}$  | 87 $\frac{1}{2}$  | 63 $\frac{1}{2}$  | 92 $\frac{1}{2}$  | 157               | 61               | 76 $\frac{1}{2}$  | 87 $\frac{1}{2}$  | 107 $\frac{1}{2}$ | 127 $\frac{1}{2}$ | 89 $\frac{1}{2}$  | 155 $\frac{1}{2}$ | 156 $\frac{1}{2}$ | 137 $\frac{1}{2}$ | 178 $\frac{1}{2}$ | 99 $\frac{1}{2}$       | 6              | 1               |
| T    | 100 | 74 $\frac{1}{2}$  | 94 $\frac{1}{2}$  | 68 $\frac{1}{2}$  | 100 $\frac{1}{2}$ | 170               | 66               | 83                | 93                | 117 $\frac{1}{2}$ | 138 $\frac{1}{2}$ | 95 $\frac{1}{2}$  | 169 $\frac{1}{2}$ | 169 $\frac{1}{2}$ | 149 $\frac{1}{2}$ | 191 $\frac{1}{2}$ | 108 $\frac{1}{2}$      | 6              | 1               |
| U    | 108 | 80 $\frac{1}{2}$  | 101 $\frac{1}{2}$ | 74 $\frac{1}{2}$  | 108 $\frac{1}{2}$ | 182 $\frac{1}{2}$ | 70 $\frac{1}{2}$ | 89 $\frac{1}{2}$  | 98 $\frac{1}{2}$  | 126 $\frac{1}{2}$ | 149 $\frac{1}{2}$ | 101 $\frac{1}{2}$ | 182 $\frac{1}{2}$ | 181 $\frac{1}{2}$ | 160               | 203 $\frac{1}{2}$ | 117 $\frac{1}{2}$      | 6              | 1               |
| V    | 116 | 85 $\frac{1}{2}$  | 109 $\frac{1}{2}$ | 79 $\frac{1}{2}$  | 116 $\frac{1}{2}$ | 195               | 75               | 96 $\frac{1}{2}$  | 110 $\frac{1}{2}$ | 135 $\frac{1}{2}$ | 160 $\frac{1}{2}$ | 114 $\frac{1}{2}$ | 196               | 195 $\frac{1}{2}$ | 171 $\frac{1}{2}$ | 228 $\frac{1}{2}$ | 125 $\frac{1}{2}$      | 8              | 1               |
| W    | 128 | 94 $\frac{1}{2}$  | 120 $\frac{1}{2}$ | 88 $\frac{1}{2}$  | 128 $\frac{1}{2}$ | 214               | 82               | 106 $\frac{1}{2}$ | 118 $\frac{1}{2}$ | 149 $\frac{1}{2}$ | 177 $\frac{1}{2}$ | 123 $\frac{1}{2}$ | 216 $\frac{1}{2}$ | 214 $\frac{1}{2}$ | 188 $\frac{1}{2}$ | 247 $\frac{1}{2}$ | 138 $\frac{1}{2}$      | 8              | 1               |
| X    | 140 | 102 $\frac{1}{2}$ | 130               | 96 $\frac{1}{2}$  | 140 $\frac{1}{2}$ | 234               | 90               | 116 $\frac{1}{2}$ | 126 $\frac{1}{2}$ | 163 $\frac{1}{2}$ | 193 $\frac{1}{2}$ | 133               | 236 $\frac{1}{2}$ | 232 $\frac{1}{2}$ | 206 $\frac{1}{2}$ | 266               | 151 $\frac{1}{2}$      | 8              | 1 $\frac{1}{2}$ |
| Y    | 152 | 110 $\frac{1}{2}$ | 141               | 104 $\frac{1}{2}$ | 152 $\frac{1}{2}$ | 253               | 97               | 126               | 135 $\frac{1}{2}$ | 177 $\frac{1}{2}$ | 210 $\frac{1}{2}$ | 142 $\frac{1}{2}$ | 256 $\frac{1}{2}$ | 251 $\frac{1}{2}$ | 223               | 284 $\frac{1}{2}$ | 164 $\frac{1}{2}$      | 8              | 1 $\frac{1}{2}$ |

Single Inlet

## Size "A" Supervane Fan—Design 1

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| P.M. | Tip Speed<br>F.P.M. | S.N.D.<br>in<br>inches | Volume<br>C.F.M.   | H. P. | Volume<br>C.F.M.   | H. P. | Volume<br>C.F.M.   | H. P. | Volume<br>C.F.M.   | H. P. | Volume<br>C.F.M.   | H. P. | Volume<br>C.F.M.   | H. P. | Volume<br>C.F.M.   | H. P. |
|------|---------------------|------------------------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|
|      |                     |                        | Static Pressure<br>1/8" Water<br>.0722 ozs. per<br>sq. inch  |       | Static Pressure<br>1/8" Water<br>.145 ozs. per<br>sq. inch   |       | Static Pressure<br>3/8" Water<br>.217 ozs. per<br>sq. inch   |       | Static Pressure<br>1/2" Water<br>.289 ozs. per<br>sq. inch   |       | Static Pressure<br>5/8" Water<br>.361 ozs. per<br>sq. inch |       | Static Pressure<br>3/4" Water<br>.434 ozs. per<br>sq. inch   |       | Static Pressure<br>7/8" Water<br>.506 ozs. per<br>sq. inch   |       |
| 96   | 1010                | 176                    | 473  | 0.016 |  |       |  |       |  |       |  |       |  |       |  |       |
| 152  | 1200                | 249                    | 907  | 0.045 |  |       |  |       |  |       |  |       |  |       |  |       |
| 111  | 1400                | 338                    | 1,170  | 0.081 |  |       |  |       |  |       |  |       |  |       |  |       |
| 69   | 1600                | 441                    | 1,380  | 0.130 | 1,130  | 0.097 |  |       |  |       |  |       |  |       |  |       |
| 28   | 1800                | 550                    | 1,610  | 0.190 | 1,430  | 0.160 | 1,010  | 0.110 |  |       |  |       |  |       |  |       |
| 86   | 2000                | 690                    | 1,800  | 0.260 | 1,680  | 0.240 | 1,450  | 0.195 |  |       |  |       |  |       |  |       |
| 45   | 2200                | 835                    | 2,020  | 0.355 | 1,910  | 0.335 | 1,750  | 0.295 | 1,470  | 0.235 |  |       |  |       |  |       |
| 64   | 2400                | 994                    |  |       | 2,130  | 0.445 | 2,000  | 0.41  | 1,820  | 0.360 | 1,470  | 0.285 |  |       |  |       |
| 21   | 2600                | 117                    |  |       | 2,300  | 0.57  | 2,240  | 0.54  | 2,100  | 0.495 | 1,900  | 0.435 | 1,580  | 0.36  |  |       |
| 21   | 2800                | 135                    |  |       | 2,540  | 0.72  | 2,440  | 0.69  | 2,340  | 0.65  | 2,200  | 0.60  | 2,000  | 0.53  | 1,680  | 0.445 |
| 30   | 3000                | 155                    |  |       | 2,750  | 0.9   | 2,670  | 0.87  | 2,580  | 0.83  | 2,460  | 0.78  | 2,320  | 0.72  | 2,120  | 0.64  |
| 39   | 3200                | 177                    |  |       | 2,940  | 1.1   | 2,880  | 1.05  | 2,800  | 1.05  | 2,700  | 0.99  | 2,590  | 0.93  | 2,440  | 0.86  |
| 98   | 3400                | 2.00                   |  |       |  |       | 3,080  | 1.30  | 3,010  | 1.25  | 2,930  | 1.20  | 2,830  | 1.15  | 2,730  | 1.10  |
| 58   | 3600                | 2.24                   |  |       |  |       | 3,290  | 1.55  | 3,220  | 1.50  | 3,150  | 1.45  | 3,070  | 1.45  | 2,980  | 1.35  |
| 11   | 3800                | 2.49                   |  |       |  |       | 3,480  | 1.8   | 3,430  | 1.80  | 3,380  | 1.75  | 3,290  | 1.70  | 3,210  | 1.65  |
| 73   | 4000                | 2.76                   |  |       |  |       |  |       | 3,630  | 2.10  | 3,570  | 2.05  | 3,510  | 2.05  | 3,440  | 2.00  |
| 31   | 4200                | 3.04                   |  |       |  |       |  |       | 3,840  | 2.45  | 3,790  | 2.40  | 3,730  | 2.40  | 3,670  | 2.35  |
| 90   | 4400                | 3.31                   |  |       |  |       |  |       | 4,040  | 2.85  | 3,990  | 2.80  | 3,940  | 2.75  | 3,880  | 2.70  |
| 50   | 4600                | 3.65                   |  |       |  |       |  |       |  |       | 4,190  | 3.20  | 4,150  | 3.15  | 4,090  | 3.15  |
| 69   | 4800                | 3.98                   |  |       |  |       |  |       |  |       | 4,390  | 3.65  | 4,350  | 3.60  | 4,310  | 3.6   |
| 69   | 5000                | 4.31                   |  |       |  |       |  |       |  |       | 4,590  | 4.15  | 4,560  | 4.15  | 4,510  | 4.1   |
| 40   | 5250                | 4.76                   |  |       |  |       |  |       |  |       |  |       | 4,800  | 4.8   | 4,760  | 4.8   |
| 14   | 5500                | 5.22                   |  |       |  |       |  |       |  |       |  |       | 5,050  | 5.5   | 5,010  | 5.5   |
| 89   | 5750                | 5.71                   |  |       |  |       |  |       |  |       |  |       |  | 5,260 | 6.3  |       |
| P.M. | Tip Speed<br>F.P.M. | S.N.D.<br>in<br>inches | Static Pressure<br>1" Water<br>.578 ozs. per<br>sq. inch     |       | Static Pressure<br>1 1/2" Water<br>.723 ozs. per<br>sq. inch |       | Static Pressure<br>1 3/4" Water<br>.878 ozs. per<br>sq. inch |       | Static Pressure<br>1 7/8" Water<br>1.01 ozs. per<br>sq. inch |       | Static Pressure<br>2" Water<br>1.16 ozs. per<br>sq. inch   |       | Static Pressure<br>2 1/2" Water<br>1.45 ozs. per<br>sq. inch |       | Static Pressure<br>2 3/4" Water<br>1.73 ozs. per<br>sq. inch |       |
| 80   | 3000                | 1.55                   | 1,820  | 0.55  |  |       |  |       |  |       |  |       |  |       |  |       |
| 39   | 3200                | 1.77                   | 2,260  | 0.77  | 1,520  | 0.53  |  |       |  |       |  |       |  |       |  |       |
| 98   | 3400                | 2.00                   | 2,580  | 1.05  | 2,150  | 0.83  |  |       |  |       |  |       |  |       |  |       |
| 58   | 3600                | 2.24                   | 2,870  | 1.30  | 2,550  | 1.10  | 2,020  | 0.88  |  |       |  |       |  |       |  |       |
| 14   | 3800                | 2.49                   | 3,120  | 1.60  | 2,880  | 1.45  | 2,530  | 1.20  | 1,800  | 0.91  |  |       |  |       |  |       |
| 73   | 4000                | 2.76                   | 3,360  | 1.90  | 3,170  | 1.75  | 2,920  | 1.55  | 2,480  | 1.35  |  |       |  |       |  |       |
| 31   | 4200                | 3.04                   | 3,590  | 2.25  | 3,430  | 2.15  | 3,240  | 1.95  | 2,910  | 1.70  | 2,450  | 1.45  |  |       |  |       |
| 90   | 4400                | 3.34                   | 3,830  | 2.65  | 3,680  | 2.55  | 3,500  | 2.35  | 3,260  | 2.15  | 2,940  | 1.90  |  |       |  |       |
| 50   | 4600                | 3.65                   | 4,050  | 3.10  | 3,910  | 2.95  | 3,760  | 2.80  | 3,580  | 2.6   | 3,320  | 2.35  | 2,450  | 1.75  |  |       |
| 69   | 4800                | 3.98                   | 4,260  | 3.55  | 4,130  | 3.40  | 3,990  | 3.25  | 3,840  | 3.1   | 3,640  | 2.85  | 3,010  | 2.30  |  |       |
| 69   | 5000                | 4.31                   | 4,470  | 4.05  | 4,360  | 3.95  | 4,240  | 3.80  | 4,100  | 3.6   | 3,930  | 3.40  | 3,450  | 2.90  | 2,540  | 2.15  |
| 40   | 5250                | 4.76                   | 4,720  | 4.7   | 4,630  | 4.7   | 4,520  | 4.45  | 4,410  | 4.3   | 4,280  | 4.15  | 3,890  | 3.65  | 3,280  | 3.05  |
| 14   | 5500                | 5.22                   | 4,980  | 5.5   | 4,890  | 5.4   | 4,800  | 5.3   | 4,690  | 5.1   | 4,570  | 4.9   | 4,240  | 4.45  | 3,820  | 3.85  |
| 89   | 5750                | 5.71                   | 5,230  | 6.3   | 5,160  | 6.2   | 5,080  | 6.1   | 4,970  | 5.9   | 4,860  | 5.7   | 4,610  | 5.3   | 4,250  | 4.75  |
| 61   | 6000                | 6.21                   | 5,480  | 7.1   | 5,410  | 7.1   | 5,340  | 7.0   | 5,260  | 6.8   | 5,150  | 6.7   | 4,920  | 6.3   | 4,640  | 5.8   |
| 34   | 6250                | 6.74                   | 5,740  | 8.1   | 5,670  | 8.0   | 5,590  | 7.9   | 5,530  | 7.8   | 5,430  | 7.6   | 5,230  | 7.3   | 4,980  | 6.8   |
| 98   | 6500                | 7.20                   |  |       | 5,920  | 9.1   | 5,860  | 8.9   | 5,790  | 8.9   | 5,700  | 8.7   | 5,510  | 8.3   | 5,300  | 7.9   |
| 80   | 6750                | 7.86                   |  |       | 6,170  | 10.0  | 6,110  | 10.0  | 6,040  | 10.0  | 5,960  | 9.9   | 5,800  | 9.5   | 5,600  | 9.1   |
| 55   | 7000                | 8.45                   |  |       | 6,420  | 11.5  | 6,360  | 11.5  | 6,310  | 11.0  | 6,240  | 11.0  | 6,080  | 10.5  | 5,900  | 10.5  |
| 90   | 7500                | 9.71                   |  |       |  |       | 6,860  | 14    | 6,810  | 14.0  | 6,750  | 13.5  | 6,640  | 13.5  | 6,490  | 13.0  |
| 45   | 8000                | 11.04                  |  |       |  |       |  |       | 7,320  | 17.0  | 7,260  | 17.0  | 7,160  | 16.5  | 7,040  | 16.5  |
| 95   | 8500                | 12.48                  |  |       |  |       |  |       | 7,820  | 20.5  | 7,770  | 20.5  | 7,670  | 20    | 7,550  | 20.0  |
| 40   | 9000                | 14.00                  |  |       |  |       |  |       |  |       | 8,260  | 24    | 8,180  | 24    | 8,090  | 23.5  |
| 88   | 9500                | 15.58                  |  |       |  |       |  |       |  |       |  |       | 8,690  | 28    | 8,590  | 28    |
| 140  | 10000               | 17.27                  |  |       |  |       |  |       |  |       |  |       | 9,180  | 33    | 9,110  | 33    |
| P.M. | Tip Speed<br>F.P.M. | S.N.D.<br>in<br>inches | Static Pressure<br>3 1/2" Water<br>2.02 ozs. per<br>sq. inch |       | Static Pressure<br>4" Water<br>2.31 ozs. per<br>sq. inch     |       | Static Pressure<br>5" Water<br>2.89 ozs. per<br>sq. inch     |       | Static Pressure<br>6" Water<br>3.47 ozs. per<br>sq. inch     |       | Static Pressure<br>7" Water<br>4.05 ozs. per<br>sq. inch   |       | Static Pressure<br>8" Water<br>4.63 ozs. per<br>sq. inch     |       | Static Pressure<br>9" Water<br>5.2 ozs. per<br>sq. inch      |       |
| 114  | 5500                | 5.22                   | 3,090  | 3.15  |  |       |  |       |  |       |  |       |  |       |  |       |
| 80   | 5750                | 5.71                   | 3,740  | 4.15  | 2,860  | 3.2   |  |       |  |       |  |       |  |       |  |       |
| 701  | 6000                | 6.21                   | 4,230  | 5.1   | 3,640  | 4.4   |  |       |  |       |  |       |  |       |  |       |
| 834  | 6250                | 6.74                   | 4,660  | 6.2   | 4,210  | 5.5   |  |       |  |       |  |       |  |       |  |       |
| 908  | 6500                | 7.20                   | 5,040  | 7.4   | 4,680  | 6.6   | 3,440  | 4.9   |  |       |  |       |  |       |  |       |
| 980  | 6750                | 7.86                   | 5,380  | 8.5   | 5,060  | 7.9   | 4,160  | 6.4   |  |       |  |       |  |       |  |       |
| 955  | 7000                | 8.45                   | 5,700  | 9.8   | 5,400  | 9.2   | 4,730  | 7.7   | 3,280  | 5.5   |  |       |  |       |  |       |
| 200  | 7500                | 9.71                   | 6,300  | 12.5  | 6,120  | 12.0  | 5,610  | 11    | 4,810  | 8.8   |  |       |  |       |  |       |
| 345  | 8000                | 11.04                  | 6,890  | 16.0  | 6,720  | 15.5  | 6,330  | 14    | 5,790  | 12.5  | 4,960  | 10.5  |  |       |  |       |
| 495  | 8500                | 12.48                  | 7,440  | 19.5  | 7,300  | 19    | 6,970  | 18    | 6,560  | 16.5  | 6,000  | 14.5  | 5,180  | 12.5  |  |       |
| 840  | 9000                | 14.00                  | 7,960  | 23.5  | 7,870  | 23    | 7,580  | 22    | 7,230  | 20.5  | 6,840  | 19.0  | 6,250  | 17    | 5,470  | 15    |
| 788  | 9500                | 15.58                  | 8,500  | 28    | 8,410  | 27    | 8,160  | 27    | 7,860  | 25    | 7,550  | 23.5  | 7,120  | 22    | 6,570  | 20    |
| 890  | 10000               | 17.27                  | 9,020  | 33    | 8,950  | 32    | 8,720  | 32    | 8,470  | 30    | 8,190  | 29    | 7,860  | 27    | 7,430  | 25    |

Single Inlet

## Size "B" Supervane Fan—Design 1

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.<br>Static Pressure<br>1/4" Water<br>.0722 ozs. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure<br>1/2" Water<br>.145 ozs. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure<br>3/4" Water<br>.217 ozs. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure<br>1" Water<br>.289 ozs. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure<br>1 1/4" Water<br>.361 ozs. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure<br>1 1/2" Water<br>.434 ozs. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure<br>1 3/4" Water<br>.506 ozs. per sq. inch | H. P. |
|--------|------------------|------------------|---|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|
| 241    | 1010             | 176              | 718   | 0.025 |  |       |  |       |  |       |  |       |  |       |  |       |
| 287    | 1200             | 219              | 1,380   | 0.068 |  |       |  |       |  |       |  |       |  |       |  |       |
| 335    | 1400             | 338              | 1,770   | 0.125 |  |       |  |       |  |       |  |       |  |       |  |       |
| 382    | 1600             | 441              | 2,090   | 0.195 | 1,710  | 0.145 |  |       |  |       |  |       |  |       |  |       |
| 430    | 1800             | 559              | 2,410   | 0.285 | 2,170  | 0.245 | 1,530  | 0.165 |  |       |  |       |  |       |  |       |
| 477    | 2000             | 690              | 2,730   | 0.395 | 2,550  | 0.36  | 2,190  | 0.295 |  |       |  |       |  |       |  |       |
| 525    | 2200             | 835              | 3,070   | 0.54  | 2,890  | 0.51  | 2,650  | 0.445 | 2,230  | 0.355 |  |       |  |       |  |       |
| 573    | 2400             | 994              |   |       | 3,230  | 0.67  | 3,030  | 0.62  | 2,760  | 0.54  | 2,230  | 0.43  |  |       |  |       |
| 621    | 2600             | 117              |   |       | 3,570  | 0.86  | 3,390  | 0.82  | 3,180  | 0.75  | 2,880  | 0.66  | 2,390  | 0.54  |  |       |
| 668    | 2800             | 135              |   |       | 3,850  | 1.10  | 3,690  | 1.05  | 3,550  | 0.99  | 3,340  | 0.91  | 3,040  | 0.80  | 2,550  | 0.67  |
| 717    | 3000             | 155              |   |       | 4,160  | 1.35  | 4,040  | 1.30  | 3,900  | 1.25  | 3,730  | 1.20  | 3,510  | 1.10  | 3,210  | 0.97  |
| 764    | 3200             | 177              |   |       | 4,460  | 1.65  | 4,360  | 1.60  | 4,240  | 1.55  | 4,100  | 1.40  | 3,920  | 1.40  | 3,700  | 1.30  |
| 811    | 3400             | 200              |   |       |  |       | 4,670  | 1.95  | 4,570  | 1.9   | 4,450  | 1.85  | 4,290  | 1.75  | 4,130  | 1.70  |
| 860    | 3600             | 224              |   |       |  |       | 4,990  | 2.35  | 4,880  | 2.3   | 4,780  | 2.25  | 4,650  | 2.15  | 4,510  | 2.05  |
| 909    | 3800             | 249              |   |       |  |       | 5,280  | 2.75  | 5,200  | 2.7   | 5,100  | 2.70  | 4,990  | 2.6   | 4,860  | 2.50  |
| 955    | 4000             | 276              |   |       |  |       |  |       | 5,500  | 3.2   | 5,420  | 3.15  | 5,320  | 3.1   | 5,210  | 3.00  |
| 1002   | 4200             | 304              |   |       |  |       |  |       | 5,810  | 3.7   | 5,740  | 3.65  | 5,650  | 3.6   | 5,550  | 3.55  |
| 1051   | 4400             | 334              |   |       |  |       |  |       | 6,120  | 4.3   | 6,050  | 4.25  | 5,970  | 4.2   | 5,880  | 4.10  |
| 1099   | 4600             | 365              |   |       |  |       |  |       |  |       | 6,350  | 4.9   | 6,280  | 4.8   | 6,200  | 4.75  |
| 1148   | 4800             | 398              |   |       |  |       |  |       |  |       | 6,650  | 5.5   | 6,580  | 5.5   | 6,520  | 5.4   |
| 1195   | 5000             | 431              |   |       |  |       |  |       |  |       | 6,960  | 6.3   | 6,900  | 6.3   | 6,830  | 6.2   |
| 1254   | 5250             | 476              |   |       |  |       |  |       |  |       |  |       | 7,280  | 7.3   | 7,220  | 7.2   |
| 1313   | 5500             | 522              |   |       |  |       |  |       |  |       |  |       | 7,650  | 8.4   | 7,600  | 8.3   |
| 1374   | 5750             | 571              |   |       |  |       |  |       |  |       |  |       |  |       | 7,980  | 9.6   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure<br>1" Water<br>.578 ozs. per sq. inch                     | H. P. | Static Pressure<br>1 1/4" Water<br>.723 ozs. per sq. inch                | H. P. | Static Pressure<br>1 1/2" Water<br>.878 ozs. per sq. inch                | H. P. | Static Pressure<br>1 3/4" Water<br>1.01 ozs. per sq. inch              | H. P. | Static Pressure<br>2" Water<br>1.16 ozs. per sq. inch                      | H. P. | Static Pressure<br>2 1/4" Water<br>1.48 ozs. per sq. inch                  | H. P. | Static Pressure<br>2 1/2" Water<br>1.73 ozs. per sq. inch                  | H. P. |
| 717    | 3000             | 155              | 2,760   | 0.83  |  |       |  |       |  |       |  |       |  |       |  |       |
| 764    | 3200             | 177              | 3,120   | 1.15  | 2,310  | 0.80  |  |       |  |       |  |       |  |       |  |       |
| 811    | 3400             | 200              | 3,910   | 1.55  | 3,260  | 1.25  |  |       |  |       |  |       |  |       |  |       |
| 860    | 3600             | 224              | 4,350   | 1.95  | 3,870  | 1.70  | 3,060  | 1.35  |  |       |  |       |  |       |  |       |
| 909    | 3800             | 249              | 4,730   | 2.40  | 4,370  | 2.15  | 3,830  | 1.85  | 2,820  | 1.40  |  |       |  |       |  |       |
| 955    | 4000             | 276              | 5,100   | 2.90  | 4,800  | 2.65  | 4,430  | 2.40  | 3,760  | 2.00  |  |       |  |       |  |       |
| 1002   | 4200             | 304              | 5,440   | 3.45  | 5,200  | 3.20  | 4,910  | 2.95  | 4,410  | 2.60  | 3,720  | 2.20  |  |       |  |       |
| 1051   | 4400             | 334              | 5,800   | 4.05  | 5,570  | 3.85  | 5,300  | 3.55  | 4,940  | 3.25  | 4,460  | 2.90  |  |       |  |       |
| 1099   | 4600             | 365              | 6,130   | 4.7   | 5,920  | 4.5   | 5,690  | 4.25  | 5,420  | 3.95  | 5,040  | 3.60  | 3,710  | 2.65  |  |       |
| 1148   | 4800             | 398              | 6,460   | 5.4   | 6,260  | 5.2   | 6,050  | 4.95  | 5,830  | 4.7   | 5,510  | 4.35  | 4,570  | 3.50  |  |       |
| 1195   | 5000             | 431              | 6,770   | 6.2   | 6,600  | 6.0   | 6,410  | 5.7   | 6,200  | 5.5   | 5,990  | 5.2   | 5,230  | 4.35  | 3,850  | 3.25  |
| 1254   | 5250             | 476              | 7,150   | 7.2   | 7,020  | 7.1   | 6,850  | 6.8   | 6,680  | 6.6   | 6,460  | 6.3   | 5,890  | 5.5   | 4,980  | 4.6   |
| 1313   | 5500             | 522              | 7,550   | 8.3   | 7,410  | 8.1   | 7,280  | 8.0   | 7,100  | 7.7   | 6,930  | 7.4   | 6,440  | 6.7   | 5,790  | 5.9   |
| 1374   | 5750             | 571              | 7,920   | 9.5   | 7,810  | 9.4   | 7,700  | 9.2   | 7,540  | 9.0   | 7,380  | 8.7   | 7,000  | 8.1   | 6,450  | 7.2   |
| 1432   | 6000             | 621              | 8,310   | 11.0  | 8,200  | 10.5  | 8,100  | 10.5  | 7,960  | 10.5  | 7,810  | 10.0  | 7,470  | 9.5   | 7,040  | 8.8   |
| 1492   | 6250             | 674              | 8,700   | 12.5  | 8,600  | 12.0  | 8,480  | 12.0  | 8,370  | 12.0  | 8,240  | 11.5  | 7,930  | 11.0  | 7,550  | 10.5  |
| 1552   | 6500             | 729              |   |       | 8,970  | 14.0  | 8,880  | 13.5  | 8,760  | 13.5  | 8,660  | 13    | 8,360  | 12.5  | 8,050  | 12.0  |
| 1610   | 6750             | 786              |   |       | 9,350  | 15.5  | 9,250  | 15.5  | 9,160  | 15    | 9,050  | 15    | 8,800  | 14.5  | 8,500  | 14.0  |
| 1671   | 7000             | 845              |   |       | 9,720  | 17    | 9,650  | 17    | 9,560  | 17    | 9,470  | 17    | 9,220  | 16.5  | 8,950  | 15.5  |
| 1791   | 7500             | 971              |   |       |  |       | 10,400   | 21    | 10,300   | 21    | 10,300   | 21    | 10,100   | 20.5  | 9,820  | 20.0  |
| 1910   | 8000             | 1104             |   |       |  |       |  |       | 11,100   | 26    | 11,000   | 26    | 10,900   | 25    | 10,700   | 24.5  |
| 2030   | 8500             | 1248             |   |       |  |       |  |       | 11,900   | 31    | 11,800   | 31    | 11,600   | 31    | 11,500   | 30    |
| 2150   | 9000             | 1400             |   |       |  |       |  |       |  |       | 12,500   | 37    |  |       |  |       |
| 2270   | 9500             | 1558             |   |       |  |       |  |       |  |       |  |       | 12,400   | 37    | 12,300   | 36    |
| 2390   | 10000            | 1727             |   |       |  |       |  |       |  |       |  |       | 13,200   | 43    | 13,000   | 43    |
|        |                  |                  |   |       |  |       |  |       |  |       |  |       | 13,900   | 50    | 13,800   | 50    |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure<br>3 1/2" Water<br>2.02 ozs. per sq. inch                 | H. P. | Static Pressure<br>4" Water<br>2.31 ozs. per sq. inch                    | H. P. | Static Pressure<br>5" Water<br>2.89 ozs. per sq. inch                    | H. P. | Static Pressure<br>6" Water<br>3.47 ozs. per sq. inch                  | H. P. | Static Pressure<br>7" Water<br>4.05 ozs. per sq. inch                      | H. P. | Static Pressure<br>8" Water<br>4.63 ozs. per sq. inch                      | H. P. | Static Pressure<br>9" Water<br>5.2 ozs. per sq. inch                       | H. P. |
| 1313   | 5500             | 522              | 4,600   | 4.75  |  |       |  |       |  |       |  |       |  |       |  |       |
| 1374   | 5750             | 571              | 5,660   | 6.3   | 4,340  | 4.85  |  |       |  |       |  |       |  |       |  |       |
| 1432   | 6000             | 621              | 6,420   | 7.8   | 5,520  | 6.7   |  |       |  |       |  |       |  |       |  |       |
| 1492   | 6250             | 674              | 7,060   | 9.4   | 6,400  | 8.3   |  |       |  |       |  |       |  |       |  |       |
| 1552   | 6500             | 729              | 7,650   | 11    | 7,110  | 10.0  | 5,210  | 7.4   |  |       |  |       |  |       |  |       |
| 1610   | 6750             | 786              | 8,160   | 13    | 7,720  | 12.0  | 6,320  | 9.7   |  |       |  |       |  |       |  |       |
| 1671   | 7000             | 845              | 8,650   | 15    | 8,280  | 14.0  | 7,170  | 11.5  | 4,980  | 8.3   |  |       |  |       |  |       |
| 1791   | 7500             | 971              | 9,570   | 19    | 9,290  | 18.5  | 8,520  | 16.5  | 7,310  | 13.5  |  |       |  |       |  |       |
| 1910   | 8000             | 1104             | 10,400  | 24    | 10,200   | 23    | 9,600  | 21.5  | 8,780  | 19    | 7,540  | 16    |  |       |  |       |
| 2030   | 8500             | 1248             | 11,300  | 29    | 11,100   | 29    | 10,600   | 27    | 9,950  | 25    | 9,100  | 22    | 7,850  | 19    |  |       |
| 2150   | 9000             | 1400             | 12,100  | 35    | 11,900   | 35    | 11,500   | 33    | 11,000   | 31    | 10,400   | 29    | 9,500  | 26    | 8,300  | 22.5  |
| 2270   | 9500             | 1558             | 12,900  | 42    | 12,700   | 42    | 12,400   | 40    | 11,900   | 38    | 11,500   | 36    | 10,800   | 33    | 9,960  | 30    |
| 2390   | 10000            | 1727             | 13,700  | 50    | 13,600   | 49    | 13,200   | 48    | 12,900   | 46    | 12,400   | 44    | 11,900   | 41    | 11,300   | 38    |

Single Inlet

## Size "C" Supervane Fan—Design 1

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                     | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                     | H. P. |
|--------|------------------|------------------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|
|        |                  |                  | Static Pressure 1/2" Water .0722 oza. per sq. inch  |       | Static Pressure 1/4" Water .145 oza. per sq. inch   |       | Static Pressure 3/8" Water .217 oza. per sq. inch   |       | Static Pressure 1/2" Water .289 oza. per sq. inch   |       | Static Pressure 5/8" Water .361 oza. per sq. inch |       | Static Pressure 3/4" Water .434 oza. per sq. inch   |       | Static Pressure 7/8" Water .506 oza. per sq. inch |       |
| 203    | 1010             | 176              | 1,010   | 0.035 |   |       |   |       |   |       |   |       |   |       |   |       |
| 241    | 1200             | 219              | 1,940   | 0.096 |   |       |   |       |   |       |   |       |   |       |   |       |
| 281    | 1400             | 338              | 2,500   | 0.175 |   |       |   |       |   |       |   |       |   |       |   |       |
| 322    | 1600             | 411              | 2,950   | 0.275 | 2,410   | 0.205 |   |       |   |       |   |       |   |       |   |       |
| 362    | 1800             | 559              | 3,410   | 0.405 | 3,070   | 0.345 | 2,160   | 0.235 |   |       |   |       |   |       |   |       |
| 402    | 2000             | 690              | 3,860   | 0.56  | 3,600   | 0.51  | 3,100   | 0.415 |   |       |   |       |   |       |   |       |
| 442    | 2200             | 835              | 4,330   | 0.76  | 4,080   | 0.71  | 3,740   | 0.63  | 3,150   | 0.50  |   |       |   |       |   |       |
| 482    | 2400             | 991              |   |       | 4,550   | 0.95  | 4,270   | 0.88  | 3,890   | 0.77  | 3,150   | 0.61  |   |       |   |       |
| 522    | 2600             | 1 17             |   |       | 5,040   | 1.20  | 4,780   | 1.15  | 4,490   | 1.05  | 4,070   | 0.93  | 3,380   | 0.77  |   |       |
| 563    | 2800             | 1 35             |   |       | 5,440   | 1.55  | 5,210   | 1.45  | 5,020   | 1.40  | 4,710   | 1.30  | 4,290   | 1.15  | 3,600   | 0.95  |
| 604    | 3000             | 1 55             |   |       | 5,880   | 1.9   | 5,700   | 1.85  | 5,510   | 1.80  | 5,260   | 1.65  | 4,950   | 1.55  | 4,530   | 1.35  |
| 644    | 3200             | 1 77             |   |       | 6,300   | 2.3   | 6,150   | 2.30  | 5,980   | 2.20  | 5,780   | 2.10  | 5,510   | 2.00  | 5,220   | 1.85  |
| 684    | 3400             | 2 00             |   |       |   |       | 6,570   | 2.75  | 6,450   | 2.70  | 6,270   | 2.60  | 6,060   | 2.50  | 5,840   | 2.35  |
| 724    | 3600             | 2 24             |   |       |   |       | 7,050   | 3.3   | 6,880   | 3.25  | 6,750   | 3.15  | 6,560   | 3.05  | 6,360   | 2.90  |
| 764    | 3800             | 2 49             |   |       |   |       | 7,450   | 3.9   | 7,330   | 3.85  | 7,200   | 3.80  | 7,050   | 3.65  | 6,860   | 3.55  |
| 804    | 4000             | 2 76             |   |       |   |       |   |       | 7,770   | 4.55  | 7,650   | 4.45  | 7,510   | 4.35  | 7,370   | 4.25  |
| 845    | 4200             | 3 04             |   |       |   |       |   |       | 8,200   | 5.2   | 8,100   | 5.2   | 7,980   | 5.1   | 7,850   | 5.0   |
| 885    | 4400             | 3 34             |   |       |   |       |   |       | 8,650   | 6.1   | 8,540   | 6.0   | 8,440   | 5.9   | 8,300   | 5.8   |
| 925    | 4600             | 3 65             |   |       |   |       |   |       |   |       | 8,970   | 6.9   | 8,870   | 6.8   | 8,760   | 6.7   |
| 965    | 4800             | 3 98             |   |       |   |       |   |       |   |       | 9,400   | 7.8   | 9,300   | 7.8   | 9,210   | 7.7   |
| 1005   | 5000             | 4 31             |   |       |   |       |   |       |   |       | 9,820   | 8.9   | 9,750   | 8.8   | 9,650   | 8.7   |
| 1055   | 5250             | 4 76             |   |       |   |       |   |       |   |       |   |       | 10,300  | 10.5  | 10,200  | 10.0  |
| 1106   | 5500             | 5 22             |   |       |   |       |   |       |   |       |   |       | 10,800  | 12    | 10,700  | 11.5  |
| 1155   | 5750             | 5 71             |   |       |   |       |   |       |   |       |   |       |   |       | 11,300  | 13.5  |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 oza. per sq. inch     |       | Static Pressure 1 1/4" Water .723 oza. per sq. inch |       | Static Pressure 1 1/2" Water .878 oza. per sq. inch |       | Static Pressure 1 3/4" Water 1.01 oza. per sq. inch |       | Static Pressure 2" Water 1.16 oza. per sq. inch   |       | Static Pressure 2 1/2" Water 1.45 oza. per sq. inch |       | Static Pressure 3" Water 1.73 oza. per sq. inch   |       |
| 604    | 3000             | 1 55             | 3,800   | 1.15  |   |       |   |       |   |       |   |       |   |       |   |       |
| 644    | 3200             | 1 77             | 4,830   | 1.65  | 3,260   | 1.15  |   |       |   |       |   |       |   |       |   |       |
| 684    | 3400             | 2 00             | 5,530   | 2.20  | 4,610   | 1.80  |   |       |   |       |   |       |   |       |   |       |
| 724    | 3600             | 2 24             | 6,140   | 2.75  | 5,460   | 2.35  | 4,320   | 1.90  |   |       |   |       |   |       |   |       |
| 764    | 3800             | 2 49             | 6,680   | 3.40  | 6,170   | 3.05  | 5,400   | 2.60  | 3,970   | 1.95  |   |       |   |       |   |       |
| 804    | 4000             | 2 76             | 7,200   | 4.10  | 6,780   | 3.75  | 6,250   | 3.35  | 5,300   | 2.85  |   |       |   |       |   |       |
| 845    | 4200             | 3 04             | 7,690   | 4.85  | 7,340   | 4.55  | 6,940   | 4.2   | 6,220   | 3.65  | 5,250   | 3.10  |   |       |   |       |
| 885    | 4400             | 3 34             | 8,200   | 5.7   | 7,860   | 5.4   | 7,500   | 5.0   | 6,980   | 4.6   | 6,300   | 4.05  |   |       |   |       |
| 925    | 4600             | 3 65             | 8,660   | 6.6   | 8,360   | 6.3   | 8,040   | 6.0   | 7,650   | 5.6   | 7,100   | 5.0   | 5,240   | 3.75  |   |       |
| 965    | 4800             | 3 98             | 9,130   | 7.6   | 8,860   | 7.3   | 8,540   | 7.0   | 8,210   | 6.6   | 7,780   | 6.1   | 6,450   | 4.95  |   |       |
| 1005   | 5000             | 4 31             | 9,560   | 8.7   | 9,340   | 8.4   | 9,050   | 8.1   | 8,760   | 7.7   | 8,400   | 7.3   | 7,370   | 6.2   | 5,440   | 4.6   |
| 1055   | 5250             | 4 76             | 10,100  | 10.0  | 9,910   | 10.0  | 9,650   | 9.6   | 9,420   | 9.2   | 9,120   | 8.8   | 8,310   | 7.8   | 7,020   | 6.5   |
| 1106   | 5500             | 5 22             | 10,600  | 11.5  | 10,500  | 11.5  | 10,300  | 11.5  | 10,000  | 11.0  | 9,760   | 10.5  | 9,070   | 9.5   | 8,160   | 8.3   |
| 1155   | 5750             | 5 71             | 11,200  | 13.5  | 11,000  | 13.0  | 10,900  | 13.0  | 10,600  | 12.5  | 10,400  | 12.5  | 9,870   | 11.5  | 9,100   | 10.0  |
| 1205   | 6000             | 6 21             | 11,700  | 15.0  | 11,600  | 15.0  | 11,400  | 15.0  | 11,200  | 14.5  | 11,000  | 14.5  | 10,500  | 13.5  | 9,920   | 12.5  |
| 1258   | 6250             | 6 74             | 12,300  | 17.5  | 12,100  | 17.0  | 12,000  | 17.0  | 11,800  | 16.5  | 11,600  | 16.5  | 11,200  | 15.5  | 10,700  | 14.5  |
| 1307   | 6500             | 7 29             |   |       | 12,700  | 19.5  | 12,500  | 19.0  | 12,400  | 19.0  | 12,200  | 18.5  | 11,800  | 18.0  | 11,300  | 17.0  |
| 1358   | 6750             | 7 86             |   |       | 13,200  | 22.0  | 13,100  | 21.5  | 12,900  | 21.5  | 12,800  | 21.0  | 12,400  | 20.5  | 12,000  | 19.5  |
| 1408   | 7000             | 8 45             |   |       | 13,700  | 24.5  | 13,600  | 24    | 13,500  | 24    | 13,400  | 23.5  | 13,000  | 23    | 12,600  | 22    |
| 1509   | 7500             | 9 71             |   |       |   |       | 14,700  | 30    | 14,600  | 30    | 14,500  | 29    | 14,200  | 29    | 13,900  | 28    |
| 1609   | 8000             | 11 04            |   |       |   |       |   |       | 15,700  | 36    | 15,500  | 36    | 15,300  | 36    | 15,000  | 35    |
| 1710   | 8500             | 12 48            |   |       |   |       |   |       | 16,700  | 44    | 16,600  | 43    | 16,400  | 43    | 16,200  | 42    |
| 1810   | 9000             | 14 00            |   |       |   |       |   |       |   |       | 17,600  | 52    | 17,500  | 52    | 17,300  | 50    |
| 1910   | 9500             | 15 58            |   |       |   |       |   |       |   |       |   |       | 18,600  | 60    | 18,400  | 60    |
| 2010   | 10000            | 17 27            |   |       |   |       |   |       |   |       |   |       | 19,600  | 72    | 19,500  | 70    |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 3 1/2" Water 2.02 oza. per sq. inch |       | Static Pressure 4" Water 2.31 oza. per sq. inch     |       | Static Pressure 5" Water 2.89 oza. per sq. inch     |       | Static Pressure 6" Water 3.47 oza. per sq. inch     |       | Static Pressure 7" Water 4.05 oza. per sq. inch   |       | Static Pressure 8" Water 4.63 oza. per sq. inch     |       | Static Pressure 9" Water 5.2 oza. per sq. inch    |       |
| 1106   | 5500             | 5 22             | 6,600   | 6.7   |   |       |   |       |   |       |   |       |   |       |   |       |
| 1155   | 5750             | 5 71             | 8,000   | 8.8   | 6,110   | 6.9   |   |       |   |       |   |       |   |       |   |       |
| 1205   | 6000             | 6 21             | 9,050   | 11.0  | 7,790   | 9.4   |   |       |   |       |   |       |   |       |   |       |
| 1258   | 6250             | 6 74             | 9,980   | 13.0  | 9,020   | 12    |   |       |   |       |   |       |   |       |   |       |
| 1307   | 6500             | 7 29             | 10,800  | 15.5  | 10,000  | 14    | 7,350   | 10.5  |   |       |   |       |   |       |   |       |
| 1358   | 6750             | 7 86             | 11,500  | 18.5  | 10,900  | 17    | 8,910   | 13.5  |   |       |   |       |   |       |   |       |
| 1408   | 7000             | 8 45             | 12,200  | 21    | 11,700  | 20    | 10,100  | 16.5  | 7,020   | 11.5  |   |       |   |       |   |       |
| 1509   | 7500             | 9 71             | 13,500  | 27    | 13,100  | 26    | 12,000  | 23    | 10,300  | 19    |   |       |   |       |   |       |
| 1609   | 8000             | 11 04            | 14,700  | 34    | 14,400  | 33    | 13,500  | 30    | 12,400  | 27    | 10,600  | 23    |   |       |   |       |
| 1710   | 8500             | 12 48            | 15,900  | 41    | 15,600  | 41    | 14,900  | 38    | 14,000  | 35    | 12,800  | 31    | 11,100  | 27    |   |       |
| 1810   | 9000             | 14 00            | 17,000  | 50    | 16,800  | 49    | 16,200  | 47    | 15,500  | 44    | 14,600  | 41    | 13,400  | 36    | 11,700  | 32    |
| 1910   | 9500             | 15 58            | 18,200  | 60    | 18,000  | 58    | 17,500  | 56    | 16,800  | 54    | 16,200  | 50    | 15,200  | 47    | 14,100  | 42    |
| 2010   | 10000            | 17 27            | 19,300  | 70    | 19,100  | 70    | 18,700  | 68    | 18,100  | 64    | 17,500  | 62    | 16,800  | 58    | 15,900  | 54    |

Single Inlet

## Size "D" Supervane Fan—Design 1

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.<br>Static Pressure<br>1/2" Water<br>.0722 ozs. per sq. inch | H. P.   | Volume C.F.M.<br>Static Pressure<br>1/2" Water<br>.145 ozs. per sq. inch | H. P.   | Volume C.F.M.<br>Static Pressure<br>1/2" Water<br>.217 ozs. per sq. inch | H. P.   | Volume C.F.M.<br>Static Pressure<br>1/2" Water<br>.289 ozs. per sq. inch | H. P.   | Volume C.F.M.<br>Static Pressure<br>1/2" Water<br>.361 ozs. per sq. inch | H. P.   | Volume C.F.M.<br>Static Pressure<br>1/2" Water<br>.434 ozs. per sq. inch | H. P.   | Volume C.F.M.<br>Static Pressure<br>1/2" Water<br>.506 ozs. per sq. inch | H. P.   |
|--------|------------------|------------------|---|---|--|---|--|---|--|---|--|---|--|---|--|---|
| 175    | 1010             | 176              | 1,360   | 0.047   |  |   |  |   |  |   |  |   |  |   |  |   |
| 208    | 1200             | 219              | 2,600   | 0.130   |  |   |  |   |  |   |  |   |  |   |  |   |
| 242    | 1400             | 338              | 3,350   | 0.230   |  |   |  |   |  |   |  |   |  |   |  |   |
| 278    | 1600             | 441              | 3,950   | 0.365   | 3,220  | 0.278   |  |   |  |   |  |   |  |   |  |   |
| 312    | 1800             | 559              | 4,610   | 0.54  | 4,100  | 0.465   | 2,800  | 0.315   |  |   |  |   |  |   |  |   |
| 347    | 2000             | 690              | 5,160   | 0.75  | 4,810  | 0.68  | 4,140  | 0.56  |  |   |  |   |  |   |  |   |
| 382    | 2200             | 835              | 5,790   | 1   | 5,460  | 0.95  | 5,010  | 0.84  | 4,200  | 0.67  |  |   |  |   |  |   |
| 417    | 2400             | 994              |   |   | 6,000  | 1.25  | 5,720  | 1.15  | 5,200  | 1.05  | 4,200  | 0.81  |  |   |  |   |
| 451    | 2600             | 117              |   |   | 6,740  | 1.65  | 6,400  | 1.55  | 6,000  | 1.40  | 5,440  | 1.25  | 4,520  | 1.05  |  |   |
| 486    | 2800             | 135              |   |   | 7,270  | 2.05  | 6,970  | 1.95  | 6,700  | 1.85  | 6,300  | 1.70  | 5,730  | 1.50  | 4,810  | 1.25  |
| 520    | 3000             | 155              |   |   | 7,860  | 2.6   | 7,620  | 2.50  | 7,360  | 2.40  | 7,040  | 2.25  | 6,620  | 2.05  | 6,000  | 1.85  |
| 555    | 3200             | 177              |   |   | 8,410  | 3.1   | 8,230  | 3.05  | 8,000  | 2.95  | 7,730  | 2.85  | 7,400  | 2.65  | 6,980  | 2.45  |
| 590    | 3400             | 200              |   |   |  |   | 8,800  | 3.7   | 8,620  | 3.60  | 8,400  | 3.50  | 8,100  | 3.35  | 7,810  | 3.15  |
| 625    | 3600             | 224              |   |   |  |   | 9,410  | 4.4   | 9,200  | 4.35  | 9,020  | 4.20  | 8,790  | 4.10  | 8,500  | 3.90  |
| 659    | 3800             | 249              |   |   |  |   | 9,980  | 5.2   | 9,800  | 5.1   | 9,620  | 5.1   | 9,420  | 5.0   | 9,180  | 4.75  |
| 695    | 4000             | 276              |   |   |  |   |  |   | 10,400   | 6.1   | 10,200   | 5.9   | 10,000   | 5.80  | 9,850  | 5.7   |
| 730    | 4200             | 304              |   |   |  |   |  |   | 11,000   | 7.0   | 10,800   | 6.9   | 10,700   | 6.80  | 10,500   | 6.7   |
| 764    | 4400             | 334              |   |   |  |   |  |   | 11,600   | 8.1   | 11,400   | 8.0   | 11,300   | 7.90  | 11,100   | 7.8   |
| 799    | 4600             | 365              |   |   |  |   |  |   |  |   | 12,000   | 9.2   | 11,900   | 9.10  | 11,700   | 9.0   |
| 833    | 4800             | 398              |   |   |  |   |  |   |  |   | 12,600   | 10.5  | 12,400   | 10.5  | 12,300   | 10.5  |
| 868    | 5000             | 431              |   |   |  |   |  |   |  |   | 13,100   | 12  | 13,000   | 12  | 12,900   | 11.5  |
| 911    | 5250             | 476              |   |   |  |   |  |   |  |   |  |   | 13,700   | 14  | 13,600   | 13.5  |
| 955    | 5500             | 522              |   |   |  |   |  |   |  |   |  |   | 14,500   | 16  | 14,300   | 15.5  |
| 998    | 5750             | 571              |   |   |  |   |  |   |  |   |  |   |  |   | 15,100   | 18  |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure<br>1" Water<br>.578 ozs. per sq. inch                     | Static Pressure<br>1 1/2" Water<br>.723 ozs. per sq. inch | Static Pressure<br>1 1/2" Water<br>.878 ozs. per sq. inch                | Static Pressure<br>1 3/4" Water<br>1.01 ozs. per sq. inch | Static Pressure<br>2" Water<br>1.16 ozs. per sq. inch                    | Static Pressure<br>2 1/2" Water<br>1.45 ozs. per sq. inch | Static Pressure<br>3" Water<br>1.73 ozs. per sq. inch                    | Static Pressure<br>3 1/2" Water<br>2.01 ozs. per sq. inch | Static Pressure<br>4" Water<br>2.29 ozs. per sq. inch                    | Static Pressure<br>4 1/2" Water<br>2.57 ozs. per sq. inch | Static Pressure<br>5" Water<br>2.85 ozs. per sq. inch                    | Static Pressure<br>5 1/2" Water<br>3.13 ozs. per sq. inch | Static Pressure<br>6" Water<br>3.41 ozs. per sq. inch                    | Static Pressure<br>6 1/2" Water<br>3.69 ozs. per sq. inch |
| 520    | 3000             | 155              | 5,210   | 1.55  |  |   |  |   |  |   |  |   |  |   |  |   |
| 555    | 3200             | 177              | 6,460   | 2.20  | 4,350  | 1.50  |  |   |  |   |  |   |  |   |  |   |
| 590    | 3400             | 200              | 7,400   | 2.95  | 6,160  | 2.40  |  |   |  |   |  |   |  |   |  |   |
| 625    | 3600             | 224              | 8,200   | 3.70  | 7,300  | 3.15  | 5,780  | 2.5   |  |   |  |   |  |   |  |   |
| 659    | 3800             | 249              | 8,930   | 4.55  | 8,250  | 4.10  | 7,230  | 3.5   | 5,310  | 2.6   |  |   |  |   |  |   |
| 695    | 4000             | 276              | 9,610   | 5.5   | 9,060  | 5.10  | 8,370  | 4.5   | 7,100  | 3.8   |  |   |  |   |  |   |
| 730    | 4200             | 304              | 10,300  | 6.5   | 9,810  | 6.10  | 9,280  | 5.6   | 8,330  | 4.9   | 7,020  | 4.15  |  |   |  |   |
| 764    | 4400             | 334              | 11,000  | 7.6   | 10,500   | 7.3   | 10,000   | 6.7   | 9,340  | 6.1   | 8,420  | 5.4   |  |   |  |   |
| 799    | 4600             | 365              | 11,600  | 8.9   | 11,200   | 8.5   | 10,700   | 8.0   | 10,200   | 7.5   | 9,510  | 6.8   | 7,010  | 5.0   |  |   |
| 833    | 4800             | 398              | 12,200  | 10.0  | 11,800   | 9.8   | 11,400   | 9.3   | 11,000   | 8.8   | 10,400   | 8.2   | 8,640  | 6.7   |  |   |
| 868    | 5000             | 431              | 12,800  | 11.5  | 12,500   | 11.5  | 12,100   | 11.0  | 11,700   | 10.5  | 11,300   | 9.7   | 9,880  | 8.2   | 7,270  | 6.1   |
| 911    | 5250             | 476              | 13,500  | 13.5  | 13,300   | 13.5  | 12,900   | 13.0  | 12,600   | 12.5  | 12,200   | 12.0  | 11,100   | 10.5  | 9,400  | 8.7   |
| 955    | 5500             | 522              | 14,200  | 15.5  | 14,000   | 15.5  | 13,700   | 15.0  | 13,400   | 14.5  | 13,100   | 14.0  | 12,200   | 12.5  | 10,900   | 11.0  |
| 998    | 5750             | 571              | 15,000  | 18.0  | 14,800   | 17.5  | 14,500   | 17.5  | 14,200   | 17.0  | 13,900   | 16.5  | 13,200   | 15.5  | 12,200   | 13.5  |
| 1041   | 6000             | 621              | 15,700  | 20.5  | 15,500   | 20  | 15,300   | 20.0  | 15,100   | 19.5  | 14,800   | 19  | 14,100   | 18  | 13,300   | 16.5  |
| 1086   | 6250             | 674              | 16,400  | 23  | 16,200   | 23  | 16,000   | 22.5  | 15,800   | 22.5  | 15,600   | 22  | 15,000   | 21  | 14,300   | 19.5  |
| 1129   | 6500             | 729              |   |   | 16,900   | 26  | 16,800   | 26  | 16,600   | 25  | 16,400   | 25  | 15,800   | 24  | 15,200   | 22.5  |
| 1171   | 6750             | 786              |   |   | 17,700   | 29  | 17,500   | 29  | 17,300   | 29  | 17,100   | 28  | 16,600   | 27  | 16,100   | 26  |
| 1215   | 7000             | 845              |   |   | 18,400   | 33  | 18,200   | 32  | 18,100   | 32  | 17,900   | 32  | 17,400   | 31  | 16,900   | 30  |
| 1302   | 7500             | 971              |   |   |  |   | 19,600   | 40  | 19,500   | 40  | 19,400   | 39  | 19,000   | 39  | 18,600   | 38  |
| 1390   | 8000             | 1104             |   |   |  |   |  |   | 21,000   | 49  | 20,800   | 48  | 20,500   | 48  | 20,200   | 47  |
| 1475   | 8500             | 1248             |   |   |  |   |  |   | 22,400   | 58  | 22,300   | 58  | 22,000   | 58  | 21,600   | 56  |
| 1561   | 9000             | 1400             |   |   |  |   |  |   |  |   | 23,600   | 70  | 23,400   | 68  | 23,200   | 68  |
| 1650   | 9500             | 1558             |   |   |  |   |  |   |  |   |  |   | 24,900   | 82  | 24,600   | 80  |
| 1735   | 10000            | 1727             |   |   |  |   |  |   |  |   |  |   | 26,300   | 96  | 26,100   | 94  |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure<br>3 1/2" Water<br>2.62 ozs. per sq. inch                 | Static Pressure<br>4" Water<br>2.91 ozs. per sq. inch     | Static Pressure<br>4 1/2" Water<br>3.19 ozs. per sq. inch                | Static Pressure<br>5" Water<br>3.47 ozs. per sq. inch     | Static Pressure<br>5 1/2" Water<br>3.75 ozs. per sq. inch                | Static Pressure<br>6" Water<br>4.03 ozs. per sq. inch     | Static Pressure<br>6 1/2" Water<br>4.31 ozs. per sq. inch                | Static Pressure<br>7" Water<br>4.59 ozs. per sq. inch     | Static Pressure<br>7 1/2" Water<br>4.87 ozs. per sq. inch                | Static Pressure<br>8" Water<br>5.15 ozs. per sq. inch     | Static Pressure<br>8 1/2" Water<br>5.43 ozs. per sq. inch                | Static Pressure<br>9" Water<br>5.71 ozs. per sq. inch     | Static Pressure<br>9 1/2" Water<br>6.00 ozs. per sq. inch                | Static Pressure<br>10" Water<br>6.28 ozs. per sq. inch    |
| 955    | 5500             | 522              | 8,840   | 9.0   |  |   |  |   |  |   |  |   |  |   |  |   |
| 998    | 5750             | 571              | 10,700  | 12.0  | 8,190  | 9.2   |  |   |  |   |  |   |  |   |  |   |
| 1041   | 6000             | 621              | 12,100  | 14.5  | 10,400   | 12.5  |  |   |  |   |  |   |  |   |  |   |
| 1086   | 6250             | 674              | 13,400  | 18.0  | 12,100   | 15.5  |  |   |  |   |  |   |  |   |  |   |
| 1129   | 6500             | 729              | 14,400  | 21.0  | 13,400   | 19.0  | 9,840  | 14  |  |   |  |   |  |   |  |   |
| 1171   | 6750             | 786              | 15,400  | 24.5  | 14,600   | 22.5  | 11,900   | 18  |  |   |  |   |  |   |  |   |
| 1215   | 7000             | 845              | 16,300  | 28  | 15,600   | 26  | 13,600   | 22  | 9,400  | 15.5  |  |   |  |   |  |   |
| 1302   | 7500             | 971              | 18,100  | 36  | 17,500   | 35  | 16,100   | 31  | 13,800   | 25  |  |   |  |   |  |   |
| 1390   | 8000             | 1104             | 19,700  | 45  | 19,300   | 44  | 18,100   | 40  | 16,600   | 36  | 14,200   | 31  |  |   |  |   |
| 1475   | 8500             | 1248             | 21,300  | 56  | 21,000   | 54  | 20,000   | 50  | 18,800   | 47  | 17,200   | 42  | 14,800   | 36  |  |   |
| 1561   | 9000             | 1400             | 22,800  | 68  | 22,500   | 66  | 21,700   | 62  | 20,700   | 58  | 19,600   | 54  | 17,900   | 48  | 15,700   | 43  |
| 1650   | 9500             | 1558             | 24,300  | 80  | 24,100   | 78  | 23,400   | 76  | 22,500   | 72  | 21,600   | 68  | 20,400   | 62  | 18,900   | 56  |
| 1735   | 10000            | 1727             | 25,800  | 94  | 25,600   | 92  | 25,000   | 90  | 24,200   | 86  | 23,500   | 82  | 22,500   | 78  | 21,300   | 72  |



Single Inlet

## Size "E" Supervane Fan—Design 1

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.                                      | H. P. | Volume C.F.M.                                     | H. P. | Volume C.F.M.                                   | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                   | H. P. |
|--------|------------------|------------------|--|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|
|        |                  |                  | Static Pressure 1/2" Water .0722 oza. per sq. inch |       | Static Pressure 3/4" Water .145 oza. per sq. inch |       | Static Pressure 1" Water .217 oza. per sq. inch |       | Static Pressure 1 1/4" Water .289 oza. per sq. inch |       | Static Pressure 1 1/2" Water .361 oza. per sq. inch |       | Static Pressure 1 3/4" Water .434 oza. per sq. inch |       | Static Pressure 2" Water .506 oza. per sq. inch |       |
| 155    | 1010             | 176              | 1,750  | 0.061 |   |       |   |       |   |       |   |       |   |       |   |       |
| 184    | 1200             | 249              | 3,300  | 0.165 |   |       |   |       |   |       |   |       |   |       |   |       |
| 214    | 1400             | 338              | 4,340  | 0.300 |   |       |   |       |   |       |   |       |   |       |   |       |
| 245    | 1600             | 441              | 5,110  | 0.475 | 4,170   | 0.36  |   |       |   |       |   |       |   |       |   |       |
| 276    | 1800             | 559              | 5,960  | 0.70  | 5,300   | 0.60  | 3,740   | 0.405 |   |       |   |       |   |       |   |       |
| 306    | 2000             | 690              | 6,690  | 0.97  | 6,240   | 0.89  | 5,300   | 0.72  |   |       |   |       |   |       |   |       |
| 337    | 2200             | 835              | 7,500  | 1.30  | 7,070   | 1.25  | 6,490   | 1.10  | 5,450   | 0.87  |   |       |   |       |   |       |
| 367    | 2400             | 994              |  |       | 7,890   | 1.65  | 7,400   | 1.50  | 6,750   | 1.35  | 5,450   | 1.05  |   |       |   |       |
| 398    | 2600             | 1177             |  |       | 8,730   | 2.10  | 8,280   | 2.00  | 7,760   | 1.85  | 7,050   | 1.60  | 5,850   | 1.35  |   |       |
| 428    | 2800             | 1355             |  |       | 9,410   | 2.65  | 9,030   | 2.55  | 8,690   | 2.40  | 8,150   | 2.20  | 7,410   | 1.95  | 6,230   | 1.65  |
| 459    | 3000             | 1555             |  |       | 10,200  | 3.3   | 9,870   | 3.20  | 9,540   | 3.10  | 9,110   | 2.90  | 8,570   | 2.65  | 7,850   | 2.35  |
| 490    | 3200             | 1777             |  |       | 10,900  | 4     | 10,700  | 3.95  | 10,400  | 3.80  | 10,000  | 3.65  | 9,590   | 3.45  | 9,050   | 3.2   |
| 520    | 3400             | 2000             |  |       |   |       |   |       |   |       |   |       |   |       |   |       |
| 551    | 3600             | 2244             |  |       |   |       |   |       |   |       |   |       |   |       |   |       |
| 581    | 3800             | 2499             |  |       |   |       |   |       |   |       |   |       |   |       |   |       |
| 612    | 4000             | 2766             |  |       |   |       |   |       |   |       |   |       |   |       |   |       |
| 643    | 4200             | 3044             |  |       |   |       |   |       |   |       |   |       |   |       |   |       |
| 673    | 4400             | 3334             |  |       |   |       |   |       |   |       |   |       |   |       |   |       |
| 704    | 4600             | 3635             |  |       |   |       |   |       |   |       |   |       |   |       |   |       |
| 735    | 4800             | 3938             |  |       |   |       |   |       |   |       |   |       |   |       |   |       |
| 765    | 5000             | 4311             |  |       |   |       |   |       |   |       |   |       |   |       |   |       |
| 804    | 5250             | 4766             |  |       |   |       |   |       |   |       |   |       |   |       |   |       |
| 842    | 5500             | 5222             |  |       |   |       |   |       |   |       |   |       |   |       |   |       |
| 880    | 5750             | 5711             |  |       |   |       |   |       |   |       |   |       |   |       |   |       |
| 450    | 3000             | 1.55             | 6,750  | 2.05  |   |       |   |       |   |       |   |       |   |       |   |       |
| 490    | 3200             | 1.77             | 8,300  | 2.85  | 5,650   | 1.95  |   |       |   |       |   |       |   |       |   |       |
| 520    | 3400             | 2.00             | 9,570  | 3.8   | 7,980   | 3.1   | 7,490   | 3.25  |   |       |   |       |   |       |   |       |
| 551    | 3600             | 2.24             | 10,600   | 4.8   | 9,450   | 4.1   |   |       |   |       |   |       |   |       |   |       |
| 581    | 3800             | 2.49             | 11,600   | 5.9   | 10,700  | 5.3   | 9,360   | 4.5   | 6,880   | 3.35  |   |       |   |       |   |       |
| 612    | 4000             | 2.76             | 12,500   | 7.1   | 11,700  | 6.5   | 10,800  | 5.8   | 9,190   | 4.9   |   |       |   |       |   |       |
| 643    | 4200             | 3.04             | 13,300   | 8.4   | 12,700  | 7.9   | 12,000  | 7.3   | 10,800  | 6.3   | 9,090   | 5.4   |   |       |   |       |
| 673    | 4400             | 3.34             | 14,200   | 9.9   | 13,600  | 9.4   | 13,000  | 8.7   | 12,100  | 7.9   | 10,900  | 7.0   |   |       |   |       |
| 704    | 4600             | 3.65             | 15,000   | 11.5  | 14,500  | 11.0  | 13,900  | 10.5  | 13,200  | 9.7   | 12,300  | 8.7   | 9,090   | 6.5   |   |       |
| 735    | 4800             | 3.98             | 15,800   | 13.0  | 15,300  | 12.5  | 14,800  | 12.0  | 14,200  | 11.5  | 13,500  | 10.5  | 11,200  | 8.6   |   |       |
| 765    | 5000             | 4.31             | 16,600   | 15.0  | 16,200  | 14.5  | 15,700  | 14.0  | 15,200  | 13.5  | 14,600  | 12.5  | 12,800  | 10.5  | 9,400   | 7.9   |
| 804    | 5250             | 4.76             | 17,500   | 17.5  | 17,200  | 17.5  | 16,800  | 16.5  | 16,300  | 16    | 15,800  | 15.5  | 14,400  | 13.5  | 12,100  | 11.0  |
| 842    | 5500             | 5.22             | 18,400   | 20    | 18,100  | 20    | 17,800  | 19.5  | 17,400  | 19    | 16,900  | 18.0  | 15,700  | 16.5  | 14,100  | 14.5  |
| 880    | 5750             | 5.71             | 19,400   | 23    | 19,100  | 23    | 18,800  | 22.5  | 18,400  | 22    | 18,000  | 21.5  | 17,100  | 20    | 15,800  | 17.5  |
| 919    | 6000             | 6.21             | 20,300   | 26    | 20,100  | 26    | 19,800  | 26    | 19,500  | 25    | 19,100  | 24.5  | 18,200  | 23    | 17,200  | 21.5  |
| 956    | 6250             | 6.74             | 21,300   | 30    | 21,000  | 30    | 20,700  | 29    | 20,500  | 29    | 20,100  | 28    | 19,400  | 27    | 18,400  | 25    |
| 995    | 6500             | 7.29             | 22,000   | 34    | 22,000  | 34    | 21,700  | 33    | 21,400  | 33    | 21,200  | 32    | 20,400  | 31    | 19,600  | 29    |
| 1033   | 6750             | 7.86             | 22,900   | 38    | 22,900  | 38    | 22,600  | 37    | 22,400  | 37    | 22,100  | 37    | 21,500  | 35    | 20,800  | 34    |
| 1071   | 7000             | 8.45             | 23,800   | 42    |   |       | 23,600  | 42    | 23,400  | 41    | 23,200  | 41    | 22,500  | 40    | 21,800  | 38    |
| 1149   | 7500             | 9.71             |  |       |   |       | 25,400  | 52    | 25,200  | 52    | 25,000  | 50    | 24,600  | 50    | 24,000  | 49    |
| 1223   | 8000             | 11.04            |  |       |   |       |   |       | 27,100  | 62    | 26,900  | 62    | 26,600  | 62    | 26,100  | 60    |
| 1300   | 8500             | 12.48            |  |       |   |       |   |       | 29,000  | 76    | 28,800  | 76    | 28,400  | 74    | 28,000  | 74    |
| 1378   | 9000             | 14.00            |  |       |   |       |   |       |   |       | 30,600  | 90    | 30,300  | 90    | 30,000  | 88    |
| 1454   | 9500             | 15.58            |  |       |   |       |   |       |   |       |   |       | 32,200  | 105   | 31,800  | 105   |
| 1531   | 10000            | 17.27            |  |       |   |       |   |       |   |       |   |       | 34,000  | 125   | 33,800  | 120   |
| 842    | 5500             | 5.22             | 11,400   | 11.5  |   |       |   |       |   |       |   |       |   |       |   |       |
| 880    | 5750             | 5.71             | 13,900   | 15.5  | 10,600  | 12.0  |   |       |   |       |   |       |   |       |   |       |
| 919    | 6000             | 6.21             | 15,100   | 19    | 13,500  | 16.5  |   |       |   |       |   |       |   |       |   |       |
| 956    | 6250             | 6.74             | 17,300   | 23    | 15,600  | 20.5  |   |       |   |       |   |       |   |       |   |       |
| 995    | 6500             | 7.29             | 18,700   | 27    | 17,400  | 24.5  | 12,700  | 18.0  |   |       |   |       |   |       |   |       |
| 1033   | 6750             | 7.86             | 19,900   | 32    | 18,800  | 29    | 15,400  | 23.5  |   |       |   |       |   |       |   |       |
| 1071   | 7000             | 8.45             | 21,200   | 36    | 20,200  | 34    |   |       | 12,200  | 20    |   |       |   |       |   |       |
| 1149   | 7500             | 9.71             | 23,400   | 47    | 22,700  | 45    | 20,800  | 40    | 17,500  | 29    |   |       |   |       |   |       |
| 1223   | 8000             | 11.04            | 25,500   | 58    | 24,900  | 56    | 23,400  | 52    | 21,400  | 46    | 18,400  | 39    |   |       |   |       |
| 1300   | 8500             | 12.48            | 27,600   | 72    | 27,100  | 70    | 25,800  | 66    | 24,300  | 60    | 22,200  | 54    | 19,200  | 47    |   |       |
| 1378   | 9000             | 14.00            | 29,500   | 86    | 29,200  | 84    | 28,000  | 82    | 26,800  | 76    | 25,400  | 70    | 23,200  | 62    | 20,300  | 56    |
| 1454   | 9500             | 15.58            | 31,500   | 105   | 31,200  | 100   | 30,200  | 98    | 29,100  | 94    | 28,000  | 88    | 26,400  | 80    | 24,300  | 74    |
| 1531   | 10000            | 17.27            | 33,400   | 120   | 33,200  | 120   | 32,400  | 115   | 31,400  | 110   | 30,400  | 105   | 29,200  | 100   | 27,500  | 94    |

Single Inlet

## Size "F" Supervane Fan—Design 1

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                     | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                     | H. P. |
|--------|------------------|------------------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|
|        |                  |                  | Static Pressure 1/4" Water .0722 ozs. per sq. inch  |       | Static Pressure 1/4" Water .145 ozs. per sq. inch   |       | Static Pressure 1/4" Water .217 ozs. per sq. inch   |       | Static Pressure 1/4" Water .289 ozs. per sq. inch   |       | Static Pressure 1/4" Water .361 ozs. per sq. inch |       | Static Pressure 1/4" Water .434 ozs. per sq. inch   |       | Static Pressure 1/4" Water .506 ozs. per sq. inch |       |
| 138    | 1010             | .176             | 2,200   | 0.076 |   |       |   |       |   |       |   |       |   |       |   |       |
| 164    | 1200             | .249             | 4,210   | 0.210 |   |       |   |       |   |       |   |       |   |       |   |       |
| 191    | 1400             | .338             | 5,430   | 0.375 |   |       |   |       |   |       |   |       |   |       |   |       |
| 218    | 1600             | .441             | 6,400   | 0.59  | 5,230   | 0.45  |   |       |   |       |   |       |   |       |   |       |
| 246    | 1800             | .559             | 7,470   | 0.87  | 6,650   | 0.75  | 4,690   | 0.51  |   |       |   |       |   |       |   |       |
| 273    | 2000             | .690             | 8,360   | 1.20  | 7,800   | 1.10  | 6,720   | 0.91  |   |       |   |       |   |       |   |       |
| 300    | 2200             | .835             | 9,390   | 1.65  | 8,875   | 1.55  | 8,120   | 1.35  |   |       |   |       |   |       |   |       |
| 328    | 2400             | .994             |   |       | 9,870   | 2.05  | 9,270   | 1.90  | 6,820   | 1.10  |   |       |   |       |   |       |
| 355    | 2600             | 1.17             |   |       | 10,900  | 2.65  | 10,400  | 2.50  | 9,730   | 2.30  | 6,820   | 1.10  |   |       |   |       |
| 382    | 2800             | 1.35             |   |       | 11,800  | 3.35  | 11,300  | 3.20  | 10,900  | 3.00  | 8,810   | 2.0   | 7,340   | 1.65  |   |       |
| 410    | 3000             | 1.55             |   |       | 12,800  | 4.15  | 12,400  | 4.05  | 12,000  | 3.85  | 10,200  | 2.8   | 9,300   | 2.45  | 7,800   | 2.05  |
| 437    | 3200             | 1.77             |   |       | 13,600  | 5     | 13,400  | 4.95  | 13,000  | 4.8   | 11,400  | 3.6   | 10,700  | 3.35  | 9,850   | 2.95  |
| 464    | 3400             | 2.00             |   |       |   |       |   |       |   |       | 12,500  | 4.6   | 12,000  | 4.3   | 11,300  | 4.0   |
| 491    | 3600             | 2.24             |   |       |   |       |   |       |   |       |   |       | 13,200  | 5.4   | 12,700  | 5.1   |
| 519    | 3800             | 2.49             |   |       |   |       |   |       |   |       |   |       | 14,300  | 6.6   | 13,800  | 6.3   |
| 546    | 4000             | 2.76             |   |       |   |       |   |       |   |       |   |       | 15,300  | 8.0   | 14,900  | 7.7   |
| 573    | 4200             | 3.04             |   |       |   |       |   |       |   |       |   |       | 16,300  | 9.4   | 16,000  | 9.2   |
| 600    | 4400             | 3.31             |   |       |   |       |   |       |   |       |   |       |   |       |   |       |
| 628    | 4600             | 3.65             |   |       |   |       |   |       |   |       |   |       | 17,300  | 11.0  | 17,000  | 11.0  |
| 655    | 4800             | 3.98             |   |       |   |       |   |       |   |       |   |       | 18,300  | 13.0  | 18,000  | 12.5  |
| 682    | 5000             | 4.31             |   |       |   |       |   |       |   |       |   |       | 19,200  | 14.5  | 19,000  | 14.5  |
| 716    | 5250             | 4.76             |   |       |   |       |   |       |   |       |   |       | 20,400  | 17.0  | 20,000  | 16.5  |
| 750    | 5500             | 5.22             |   |       |   |       |   |       |   |       |   |       | 21,200  | 19.0  | 20,900  | 19.0  |
| 785    | 5750             | 5.71             |   |       |   |       |   |       |   |       |   |       | 22,900  | 22.5  | 22,100  | 22.5  |
|        |                  |                  |   |       |   |       |   |       |   |       |   |       | 23,400  | 26    | 23,300  | 25    |
|        |                  |                  |   |       |   |       |   |       |   |       |   |       |   |       | 24,400  | 29    |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 ozs. per sq. inch     |       | Static Pressure 1 1/4" Water .723 ozs. per sq. inch |       | Static Pressure 1 1/2" Water .878 ozs. per sq. inch |       | Static Pressure 1 3/4" Water 1.01 ozs. per sq. inch |       | Static Pressure 2" Water 1.16 ozs. per sq. inch   |       | Static Pressure 2 1/2" Water 1.45 ozs. per sq. inch |       | Static Pressure 3" Water 1.73 ozs. per sq. inch   |       |
| 410    | 3000             | 1.55             | 8,450   | 2.55  |   |       |   |       |   |       |   |       |   |       |   |       |
| 437    | 3200             | 1.77             | 10,500  | 3.60  | 7,060   | 2.45  |   |       |   |       |   |       |   |       |   |       |
| 464    | 3400             | 2.00             | 12,000  | 4.75  | 10,000  | 3.85  |   |       |   |       |   |       |   |       |   |       |
| 491    | 3600             | 2.24             | 13,300  | 6.0   | 11,800  | 5.1   | 9,370   | 4.1   |   |       |   |       |   |       |   |       |
| 519    | 3800             | 2.49             | 14,500  | 7.4   | 13,400  | 6.6   | 11,700  | 5.7   | 8,620   | 4.2   |   |       |   |       |   |       |
| 546    | 4000             | 2.76             | 15,600  | 8.9   | 14,700  | 8.2   | 13,600  | 7.3   | 11,500  | 6.1   |   |       |   |       |   |       |
| 573    | 4200             | 3.04             | 16,700  | 10.5  | 15,900  | 9.9   | 15,000  | 9.1   | 13,500  | 7.9   | 11,400  | 6.7   |   |       |   |       |
| 600    | 4400             | 3.34             | 17,800  | 12.5  | 17,100  | 12.0  | 16,300  | 11.0  | 15,100  | 9.9   | 13,800  | 8.8   |   |       |   |       |
| 628    | 4600             | 3.65             | 18,800  | 14.5  | 18,100  | 13.5  | 17,400  | 13.0  | 16,600  | 12.0  | 15,400  | 11.0  |   |       |   |       |
| 655    | 4800             | 3.98             | 19,800  | 16.5  | 19,200  | 16.0  | 18,500  | 15.0  | 17,800  | 14.5  | 16,900  | 13.5  | 11,400  | 8.1   |   |       |
| 682    | 5000             | 4.31             | 20,800  | 19    | 20,200  | 18.5  | 19,700  | 17.5  | 19,000  | 16.5  | 18,300  | 16    | 16,000  | 13.5  | 11,800  | 9.9   |
| 716    | 5250             | 4.76             | 21,900  | 22    | 21,500  | 22    | 21,000  | 20.5  | 20,400  | 20.0  | 19,800  | 19    | 18,000  | 17.0  | 15,200  | 14    |
| 750    | 5500             | 5.22             | 23,100  | 25    | 22,700  | 25    | 22,300  | 24.5  | 21,800  | 23.5  | 21,200  | 23    | 19,700  | 20.5  | 17,700  | 18    |
| 785    | 5750             | 5.71             | 24,300  | 29    | 23,900  | 29    | 23,600  | 28    | 23,100  | 27    | 22,600  | 27    | 21,400  | 25    | 19,700  | 22    |
| 819    | 6000             | 6.21             | 25,400  | 33    | 25,100  | 33    | 24,800  | 32    | 24,400  | 31    | 23,900  | 31    | 22,800  | 29    | 21,500  | 27    |
| 854    | 6250             | 6.74             | 26,600  | 38    | 26,400  | 37    | 26,000  | 37    | 25,600  | 36    | 25,200  | 35    | 24,300  | 34    | 23,100  | 31    |
| 887    | 6500             | 7.29             |   |       | 27,400  | 42    | 27,200  | 41    | 26,800  | 41    | 26,500  | 41    | 25,600  | 39    | 24,000  | 37    |
| 921    | 6750             | 7.86             |   |       | 28,700  | 47    | 28,400  | 47    | 28,000  | 46    | 27,700  | 46    | 27,000  | 44    | 26,000  | 42    |
| 955    | 7000             | 8.45             |   |       | 29,800  | 52    | 29,600  | 52    | 29,300  | 52    | 29,000  | 52    | 28,200  | 50    | 27,400  | 48    |
| 1021   | 7500             | 9.71             |   |       |   |       | 31,900  | 64    | 31,600  | 64    | 31,400  | 64    | 30,800  | 62    | 30,100  | 60    |
| 1091   | 8000             | 11.04            |   |       |   |       |   |       | 34,000  | 78    | 33,700  | 78    | 33,300  | 76    | 32,600  | 76    |
| 1160   | 8500             | 12.48            |   |       |   |       |   |       | 36,300  | 94    | 36,100  | 94    | 35,600  | 94    | 35,100  | 92    |
| 1229   | 9000             | 14.00            |   |       |   |       |   |       |   |       | 38,300  | 110   | 38,000  | 110   | 37,600  | 110   |
| 1298   | 9500             | 15.58            |   |       |   |       |   |       |   |       |   |       | 40,400  | 130   | 39,900  | 130   |
| 1364   | 10000            | 17.27            |   |       |   |       |   |       |   |       |   |       | 42,600  | 155   | 42,300  | 150   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 3 1/2" Water 2.62 ozs. per sq. inch |       | Static Pressure 4" Water 2.31 ozs. per sq. inch     |       | Static Pressure 5" Water 2.89 ozs. per sq. inch     |       | Static Pressure 6" Water 3.47 ozs. per sq. inch     |       | Static Pressure 7" Water 4.05 ozs. per sq. inch   |       | Static Pressure 8" Water 4.63 ozs. per sq. inch     |       | Static Pressure 9" Water 5.2 ozs. per sq. inch    |       |
| 750    | 5500             | 5.22             | 14,300  | 14.5  |   |       |   |       |   |       |   |       |   |       |   |       |
| 785    | 5750             | 5.71             | 17,300  | 19    | 13,300  | 15.0  |   |       |   |       |   |       |   |       |   |       |
| 819    | 6000             | 6.21             | 19,600  | 24    | 16,900  | 20.5  |   |       |   |       |   |       |   |       |   |       |
| 854    | 6250             | 6.74             | 21,000  | 29    | 19,600  | 25    |   |       |   |       |   |       |   |       |   |       |
| 887    | 6500             | 7.29             | 23,400  | 34    | 21,700  | 31    | 15,900  | 22.5  |   |       |   |       |   |       |   |       |
| 921    | 6750             | 7.86             | 25,000  | 40    | 23,600  | 37    | 19,300  | 30    |   |       |   |       |   |       |   |       |
| 955    | 7000             | 8.45             | 26,500  | 46    | 25,300  | 43    | 22,000  | 36    | 15,200  | 25    |   |       |   |       |   |       |
| 1021   | 7500             | 9.71             | 29,300  | 58    | 28,400  | 56    | 26,100  | 50    | 22,400  | 41    |   |       |   |       |   |       |
| 1091   | 8000             | 11.04            | 32,000  | 74    | 31,200  | 72    | 29,300  | 66    | 26,900  | 58    | 23,100  | 50    |   |       |   |       |
| 1160   | 8500             | 12.48            | 34,600  | 90    | 34,000  | 88    | 32,400  | 82    | 30,500  | 76    | 27,800  | 68    | 24,000  | 58    |   |       |
| 1229   | 9000             | 14.00            | 37,000  | 110   | 36,500  | 105   | 35,200  | 100   | 33,600  | 96    | 31,800  | 88    | 29,000  | 78    | 25,400  | 70    |
| 1298   | 9500             | 15.58            | 39,400  | 130   | 39,000  | 125   | 37,900  | 125   | 36,500  | 115   | 35,000  | 110   | 33,000  | 100   | 30,500  | 92    |
| 1364   | 10000            | 17.27            | 41,900  | 150   | 41,500  | 150   | 40,500  | 145   | 39,400  | 140   | 38,000  | 135   | 36,500  | 125   | 34,500  | 120   |

| Single Inlet   |                     | Size "G" Supervane Fan—Design 1 |   |  |  |  |  |  |  |       |  | Single Width |  |       |  |       |
|--|---------------------|---------------------------------|---|--|--|--|--|--|--|-------|--|--------------|--|-------|--|-------|
| When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances |                     |                                 |   |  |  |  |  |  |  |       |  |              |  |       |  |       |
| R.P.M.   | Tip Speed<br>F.P.M. | S.N.D.<br>in<br>inches          | Volume<br>C.F.M.<br>Static Pressure<br>1" Water<br>.0722 ozs. per<br>sq. inch | H. P.  | Volume<br>C.F.M.<br>Static Pressure<br>1 1/4" Water<br>.145 ozs. per<br>sq. inch | H. P.  | Volume<br>C.F.M.<br>Static Pressure<br>1 1/2" Water<br>.217 ozs. per<br>sq. inch | H. P.  | Volume<br>C.F.M.<br>Static Pressure<br>1 3/4" Water<br>.289 ozs. per<br>sq. inch | H. P. | Volume<br>C.F.M.<br>Static Pressure<br>2" Water<br>.361 ozs. per<br>sq. inch | H. P.        | Volume<br>C.F.M.<br>Static Pressure<br>2 1/4" Water<br>.434 ozs. per<br>sq. inch | H. P. | Volume<br>C.F.M.<br>Static Pressure<br>2 1/2" Water<br>.506 ozs. per<br>sq. inch | H. P. |
| 120  | 1010                | 1 76                            | 2,860   | 0.099  |  |  |  |  |  |       |  |              |  |       |  |       |
| 143  | 1200                | 2 49                            | 5,490   | 0.27   |  |  |  |  |  |       |  |              |  |       |  |       |
| 167  | 1400                | 3 38                            | 7,070   | 0.49   |  |  |  |  |  |       |  |              |  |       |  |       |
| 191  | 1600                | 4 41                            | 8,350   | 0.77   | 6,810  | 0.58   |  |  |  |       |  |              |  |       |  |       |
| 215  | 1800                | 5 59                            | 9,740   | 1.15   | 8,660  | 0.98   | 6,110  | 0.67   |  |       |  |              |  |       |  |       |
| 238  | 2000                | 6 90                            | 10,900  | 1.60   | 10,200   | 1.45   | 8,760  | 1.20   |  |       |  |              |  |       |  |       |
| 262  | 2200                | 8 35                            | 12,200  | 2.15   | 11,500   | 2.00   | 10,000   | 1.80   | 8,900  | 1.40  |  |              |  |       |  |       |
| 286  | 2400                | 9 94                            |   |  | 12,900   | 2.70   | 12,100   | 2.50   | 11,000   | 2.15  | 8,900  | 1.7          |  |       |  |       |
| 310  | 2600                | 1 17                            |   |  | 14,200   | 3.45   | 13,500   | 3.30   | 12,700   | 3.00  | 11,500   | 2.6          | 9,550  | 2.15  |  |       |
| 334  | 2800                | 1 35                            |   |  | 15,400   | 4.35   | 14,700   | 4.15   | 14,200   | 3.95  | 13,300   | 3.6          | 12,100   | 3.20  | 10,200   | 2.70  |
| 358  | 3000                | 1 55                            |   |  | 16,600   | 5.4  | 16,100   | 5.3  | 15,600   | 5.0   | 14,900   | 4.7          | 14,000   | 4.35  | 12,800   | 3.85  |
| 382  | 3200                | 1 77                            |   |  | 17,800   | 6.6  | 17,400   | 6.5  | 16,900   | 6.2   | 16,300   | 6.0          | 15,600   | 5.6   | 14,800   | 5.2   |
| 406  | 3400                | 2 00                            |   |  |  |  | 18,600   | 7.8  | 18,200   | 7.6   | 17,700   | 7.4          | 17,100   | 7.1   | 16,500   | 6.7   |
| 430  | 3600                | 2 24                            |   |  |  |  | 19,900   | 9.3  | 19,500   | 9.2   | 19,100   | 8.9          | 18,600   | 8.6   | 18,000   | 8.3   |
| 453  | 3800                | 2 49                            |   |  |  |  | 21,000   | 11   | 20,700   | 11    | 20,300   | 10.5         | 19,900   | 10.5  | 19,400   | 10.0  |
| 477  | 4000                | 2 76                            |   |  |  |  |  |  | 22,000   | 13    | 21,600   | 12.5         | 21,200   | 12.5  | 20,800   | 12.0  |
| 501  | 4200                | 3 04                            |   |  |  |  |  |  | 23,200   | 15    | 22,900   | 14.5         | 22,500   | 14.5  | 22,200   | 14.0  |
| 525  | 4400                | 3 34                            |   |  |  |  |  |  | 24,400   | 17    | 24,100   | 17.0         | 23,800   | 16.5  | 23,500   | 16.5  |
| 549  | 4600                | 3 65                            |   |  |  |  |  |  |  |       | 25,400   | 19.5         | 25,000   | 19    | 24,800   | 19.0  |
| 572  | 4800                | 3 98                            |   |  |  |  |  |  |  |       | 26,500   | 22           | 26,300   | 22    | 26,000   | 21.5  |
| 596  | 5000                | 4 31                            |   |  |  |  |  |  |  |       | 27,800   | 25           | 27,600   | 25    | 27,300   | 24.5  |
| 626  | 5250                | 4 76                            |   |  |  |  |  |  |  |       |  |              | 29,000   | 29    | 28,800   | 29    |
| 656  | 5500                | 5 22                            |   |  |  |  |  |  |  |       |  |              | 30,500   | 34    | 30,300   | 33    |
| 686  | 5750                | 5 71                            |   |  |  |  |  |  |  |       |  |              |  |       | 31,900   | 38    |
| R.P.M.   | Tip Speed<br>F.P.M. | S.N.D.<br>in<br>inches          | Static Pressure<br>1" Water<br>.578 ozs. per<br>sq. inch                      | Static Pressure<br>1 1/4" Water<br>.723 ozs. per<br>sq. inch | Static Pressure<br>1 1/2" Water<br>.878 ozs. per<br>sq. inch                     | Static Pressure<br>1 3/4" Water<br>1.01 ozs. per<br>sq. inch | Static Pressure<br>2" Water<br>1.16 ozs. per<br>sq. inch                         | Static Pressure<br>2 1/4" Water<br>1.45 ozs. per<br>sq. inch | Static Pressure<br>2 1/2" Water<br>1.73 ozs. per<br>sq. inch                     |       |  |              |  |       |  |       |
| 358  | 3000                | 1 55                            | 11,000  | 3.30   |  |  |  |  |  |       |  |              |  |       |  |       |
| 382  | 3200                | 1 77                            | 13,600  | 4.65   | 9,200  | 3.2  |  |  |  |       |  |              |  |       |  |       |
| 406  | 3400                | 2 00                            | 15,600  | 6.2  | 13,000   | 5.0  |  |  |  |       |  |              |  |       |  |       |
| 430  | 3600                | 2 24                            | 17,300  | 7.8  | 15,400   | 6.7  | 12,200   | 5.3  |  |       |  |              |  |       |  |       |
| 453  | 3800                | 2 49                            | 18,900  | 9.6  | 17,400   | 8.6  | 15,300   | 7.4  | 11,200   | 5.5   |  |              |  |       |  |       |
| 477  | 4000                | 2 76                            | 20,300  | 11.5   | 19,100   | 10.5   | 17,700   | 9.5  | 15,000   | 8.0   |  |              |  |       |  |       |
| 501  | 4200                | 3 04                            | 21,700  | 13.5   | 20,700   | 13.0   | 19,600   | 12.0   | 17,600   | 10.5  | 14,800   | 8.8          |  |       |  |       |
| 525  | 4400                | 3 34                            | 23,100  | 16.0   | 22,200   | 15.5   | 21,200   | 14.0   | 19,700   | 13.0  | 17,800   | 11.5         |  |       |  |       |
| 549  | 4600                | 3 65                            | 24,400  | 18.5   | 23,600   | 18.0   | 22,700   | 17.0   | 21,600   | 16.0  | 20,100   | 14.0         | 14,800   | 10.5  |  |       |
| 572  | 4800                | 3 98                            | 25,800  | 21.5   | 25,000   | 20.5   | 24,100   | 19.5   | 23,200   | 18.5  | 22,000   | 17.5         | 18,200   | 14.0  |  |       |
| 596  | 5000                | 4 31                            | 27,000  | 24.5   | 26,300   | 24   | 25,600   | 23   | 24,800   | 22    | 23,800   | 20.5         | 20,800   | 17.5  | 15,400   | 13.5  |
| 626  | 5250                | 4 76                            | 28,600  | 29   | 28,000   | 28   | 27,300   | 27   | 26,600   | 26    | 25,800   | 25           | 23,500   | 22    | 19,800   | 18.5  |
| 656  | 5500                | 5 22                            | 30,100  | 33   | 29,600   | 32   | 29,000   | 32   | 28,400   | 31    | 27,600   | 30           | 25,600   | 27    | 23,100   | 23.5  |
| 686  | 5750                | 5 71                            | 31,600  | 38   | 31,200   | 37   | 30,700   | 37   | 30,000   | 36    | 29,400   | 35           | 27,900   | 32    | 25,700   | 29    |
| 716  | 6000                | 6 21                            | 33,200  | 43   | 32,700   | 43   | 32,300   | 42   | 31,800   | 41    | 31,100   | 40           | 29,800   | 38    | 28,000   | 35    |
| 746  | 6250                | 6 74                            | 34,700  | 49   | 34,300   | 49   | 33,800   | 48   | 33,400   | 47    | 32,800   | 46           | 31,000   | 44    | 30,100   | 41    |
| 775  | 6500                | 7 29                            |   |  | 35,800   | 54   | 35,400   | 54   | 35,000   | 54    | 34,500   | 52           | 33,400   | 50    | 32,100   | 48    |
| 805  | 6750                | 7 86                            |   |  | 37,300   | 62   | 36,900   | 60   | 36,500   | 60    | 36,100   | 60           | 35,100   | 58    | 33,900   | 54    |
| 835  | 7000                | 8 45                            |   |  | 38,800   | 68   | 38,500   | 68   | 38,200   | 68    | 37,800   | 66           | 36,800   | 64    | 35,700   | 62    |
| 865  | 7500                | 9 71                            |   |  |  |  | 41,500   | 84   | 41,200   | 84    | 40,900   | 84           | 40,100   | 82    | 39,200   | 80    |
| 955  | 8000                | 11 04                           |   |  |  |  |  |  | 44,300   | 105   | 43,900   | 100          | 43,300   | 100   | 42,600   | 98    |
| 1014   | 8500                | 12 48                           |   |  |  |  |  |  | 47,400   | 125   | 47,100   | 125          | 46,500   | 120   | 45,700   | 120   |
| 1074   | 9000                | 14 00                           |   |  |  |  |  |  |  |       | 50,000   | 145          | 49,500   | 145   | 49,000   | 145   |
| 1133   | 9500                | 15 58                           |   |  |  |  |  |  |  |       |  |              | 52,600   | 170   | 52,000   | 170   |
| 1193   | 10000               | 17 27                           |   |  |  |  |  |  |  |       |  |              | 55,500   | 200   | 55,100   | 200   |
| R.P.M.   | Tip Speed<br>F.P.M. | S.N.D.<br>in<br>inches          | Static Pressure<br>3 1/4" Water<br>2.02 ozs. per<br>sq. inch                  | Static Pressure<br>4" Water<br>2.31 ozs. per<br>sq. inch     | Static Pressure<br>5" Water<br>2.88 ozs. per<br>sq. inch                         | Static Pressure<br>6" Water<br>3.47 ozs. per<br>sq. inch     | Static Pressure<br>7" Water<br>4.05 ozs. per<br>sq. inch                         | Static Pressure<br>8" Water<br>4.63 ozs. per<br>sq. inch     | Static Pressure<br>9" Water<br>5.2 ozs. per<br>sq. inch                          |       |  |              |  |       |  |       |
| 656  | 5500                | 5 22                            | 18,700  | 19   |  |  |  |  |  |       |  |              |  |       |  |       |
| 686  | 5750                | 5 71                            | 22,600  | 25   | 17,300   | 19.5   |  |  |  |       |  |              |  |       |  |       |
| 716  | 6000                | 6 21                            | 25,600  | 31   | 22,000   | 27   |  |  |  |       |  |              |  |       |  |       |
| 746  | 6250                | 6 74                            | 28,200  | 37   | 25,500   | 33   |  |  |  |       |  |              |  |       |  |       |
| 775  | 6500                | 7 29                            | 30,400  | 45   | 28,300   | 40   | 20,800   | 30   |  |       |  |              |  |       |  |       |
| 805  | 6750                | 7 86                            | 32,500  | 52   | 30,800   | 48   | 25,200   | 38   |  |       |  |              |  |       |  |       |
| 835  | 7000                | 8 45                            | 34,500  | 60   | 33,000   | 56   | 28,600   | 47   | 19,800   | 33    |  |              |  |       |  |       |
| 865  | 7500                | 9 71                            | 38,100  | 76   | 37,000   | 74   | 33,900   | 66   | 29,200   | 54    |  |              |  |       |  |       |
| 955  | 8000                | 11 04                           | 41,600  | 96   | 40,600   | 92   | 38,200   | 86   | 35,000   | 76    | 30,000   | 64           |  |       |  |       |
| 1014   | 8500                | 12 48                           | 45,000  | 115  | 44,200   | 115  | 42,200   | 110  | 39,800   | 100   | 36,300   | 88           | 31,300   | 76    |  |       |
| 1074   | 9000                | 14 00                           | 48,100  | 140  | 47,500   | 140  | 45,800   | 135  | 43,700   | 125   | 41,400   | 115          | 37,800   | 100   | 33,100   | 90    |
| 1133   | 9500                | 15 58                           | 51,500  | 170  | 50,800   | 165  | 49,400   | 160  | 47,600   | 150   | 45,700   | 145          | 43,000   | 130   | 39,700   | 120   |
| 1193   | 10000               | 17 27                           | 54,500  | 200  | 54,200   | 195  | 52,800   | 190  | 51,300   | 185   | 49,500   | 175          | 47,600   | 165   | 44,900   | 155   |

Single Inlet

## Size "H" Supervane Fan—Design 1

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| TABLE NO. 1001 AGAINST CONTINUOUSLY MEASURED DISTANCES |                  |                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--|------------------|------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| R.P.M.   | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.<br>Static Pressure 1/2" Water .072 oss. per sq. inch | H. P.<br>Static Pressure 1/2" Water .072 oss. per sq. inch | Volume C.F.M.<br>Static Pressure 1/4" Water .145 oss. per sq. inch | H. P.<br>Static Pressure 1/4" Water .145 oss. per sq. inch | Volume C.F.M.<br>Static Pressure 3/8" Water .217 oss. per sq. inch | H. P.<br>Static Pressure 3/8" Water .217 oss. per sq. inch | Volume C.F.M.<br>Static Pressure 1/2" Water .289 oss. per sq. inch | H. P.<br>Static Pressure 1/2" Water .289 oss. per sq. inch | Volume C.F.M.<br>Static Pressure 5/8" Water .361 oss. per sq. inch | H. P.<br>Static Pressure 5/8" Water .361 oss. per sq. inch | Volume C.F.M.<br>Static Pressure 3/4" Water .434 oss. per sq. inch | H. P.<br>Static Pressure 3/4" Water .434 oss. per sq. inch | Volume C.F.M.<br>Static Pressure 7/8" Water .506 oss. per sq. inch | H. P.<br>Static Pressure 7/8" Water .506 oss. per sq. inch |
| 107  | 1010             | .176             | 3,640  | 0.125  |  |  |  |  |  |  |  |  |  |  |  |  |
| 127  | 1200             | .249             | 6,970  | 0.345  |  |  |  |  |  |  |  |  |  |  |  |  |
| 149  | 1400             | .338             | 8,980  | 0.62   |  |  |  |  |  |  |  |  |  |  |  |  |
| 170  | 1600             | .441             | 10,600   | 0.98   | 8,650  | 0.74   |  |  |  |  |  |  |  |  |  |  |
| 191  | 1800             | .559             | 12,300   | 1.45   | 11,000   | 1.25   | 7,750  | 0.84   |  |  |  |  |  |  |  |  |
| 212  | 2000             | .690             | 13,800   | 2.0  | 12,900   | 1.85   | 11,100   | 1.50   |  |  |  |  |  |  |  |  |
| 233  | 2200             | .835             | 15,500   | 2.7  | 14,800   | 2.55   | 13,400   | 2.25   | 11,300   | 1.80   |  |  |  |  |  |  |
| 255  | 2400             | .994             |  |  | 16,300   | 3.40   | 15,300   | 3.15   | 13,900   | 2.75   | 11,300   | 2.2  |  |  |  |  |
| 276  | 2600             | 1.17             |  |  | 18,100   | 4.35   | 17,100   | 4.15   | 16,100   | 3.8  | 14,600   | 3.3  | 12,100   | 2.75   |  |  |
| 297  | 2800             | 1.35             |  |  | 19,500   | 5.5  | 18,700   | 5.3  | 18,000   | 5.0  | 16,900   | 4.6  | 15,400   | 4.05   | 12,900   | 3.4  |
| 318  | 3000             | 1.55             |  |  | 21,100   | 6.9  | 20,400   | 6.7  | 19,700   | 6.4  | 18,900   | 6.0  | 17,800   | 5.5  | 16,300   | 4.9  |
| 340  | 3200             | 1.77             |  |  | 22,600   | 8.3  | 22,000   | 8.2  | 21,400   | 7.9  | 20,700   | 7.6  | 19,800   | 7.1  | 18,700   | 6.6  |
| 361  | 3400             | 2.00             |  |  |  |  | 23,600   | 9.9  | 23,100   | 9.7  | 22,500   | 9.4  | 21,700   | 9.0  | 20,900   | 8.5  |
| 382  | 3600             | 2.24             |  |  |  |  | 25,200   | 12   | 24,700   | 11.5   | 24,200   | 11.5   | 23,500   | 11.0   | 22,800   | 10.5   |
| 403  | 3800             | 2.49             |  |  |  |  | 26,200   | 14   | 26,300   | 14.0   | 25,800   | 13.5   | 25,200   | 13.0   | 24,600   | 12.5   |
| 425  | 4000             | 2.76             |  |  |  |  |  |  | 27,800   | 16.5   | 27,400   | 16.0   | 26,900   | 15.5   | 26,400   | 15   |
| 445  | 4200             | 3.04             |  |  |  |  |  |  | 29,400   | 19   | 29,000   | 18.5   | 28,600   | 18.5   | 28,100   | 18   |
| 467  | 4400             | 3.34             |  |  |  |  |  |  | 31,000   | 22   | 30,600   | 21.5   | 30,200   | 21.0   | 29,800   | 21   |
| 488  | 4600             | 3.65             |  |  |  |  |  |  |  |  | 32,200   | 25   | 31,800   | 24.5   | 31,400   | 24   |
| 510  | 4800             | 3.98             |  |  |  |  |  |  |  |  | 33,700   | 28   | 33,300   | 28   | 33,000   | 27   |
| 531  | 5000             | 4.31             |  |  |  |  |  |  |  |  | 35,200   | 32   | 35,000   | 32   | 34,800   | 31   |
| 557  | 5250             | 4.76             |  |  |  |  |  |  |  |  |  |  | 36,800   | 37   | 36,500   | 37   |
| 584  | 5500             | 5.22             |  |  |  |  |  |  |  |  |  |  | 38,700   | 43   | 38,400   | 42   |
| 610  | 5750             | 5.71             |  |  |  |  |  |  |  |  |  |  |  |  | 40,300   | 48   |
| R.P.M.   | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 oss. per sq. inch                    | Static Pressure 1 1/4" Water .723 oss. per sq. inch        | Static Pressure 1 1/2" Water .878 oss. per sq. inch                | Static Pressure 1 3/4" Water 1.01 oss. per sq. inch        | Static Pressure 2" Water 1.18 oss. per sq. inch                    | Static Pressure 2 1/4" Water 1.48 oss. per sq. inch        | Static Pressure 2 1/2" Water 1.73 oss. per sq. inch                | Static Pressure 3" Water 2.17 oss. per sq. inch            |  |  |  |  |  |  |
| 318  | 3000             | 1.55             | 14,000   | 4.2  |  |  |  |  |  |  |  |  |  |  |  |  |
| 340  | 3200             | 1.77             | 17,300   | 5.9  | 11,700   | 4.1  |  |  |  |  |  |  |  |  |  |  |
| 361  | 3400             | 2.00             | 19,800   | 7.9  | 16,500   | 6.4  |  |  |  |  |  |  |  |  |  |  |
| 382  | 3600             | 2.24             | 22,000   | 9.9  | 19,600   | 8.5  | 15,500   | 6.7  |  |  |  |  |  |  |  |  |
| 403  | 3800             | 2.49             | 23,900   | 12.0   | 22,100   | 11.0   | 19,400   | 9.4  | 14,800   | 7.0  |  |  |  |  |  |  |
| 425  | 4000             | 2.76             | 25,800   | 14.5   | 24,300   | 13.5   | 22,400   | 12.0   | 19,000   | 10.0   |  |  |  |  |  |  |
| 445  | 4200             | 3.04             | 27,500   | 17.5   | 26,300   | 16.5   | 24,900   | 15.0   | 22,300   | 13.0   |  |  |  |  |  |  |
| 467  | 4400             | 3.34             | 29,400   | 20.5   | 28,300   | 19.5   | 26,900   | 18.0   | 25,000   | 16.5   |  |  |  |  |  |  |
| 488  | 4600             | 3.65             | 31,100   | 24   | 30,000   | 22.5   | 28,800   | 21.5   | 27,400   | 20.0   |  |  |  |  |  |  |
| 510  | 4800             | 3.98             | 32,700   | 27   | 31,700   | 26   | 30,600   | 25   | 29,400   | 23.5   |  |  |  |  |  |  |
| 531  | 5000             | 4.31             | 34,300   | 31   | 33,500   | 30   | 32,500   | 29   | 31,400   | 28   |  |  |  |  |  |  |
| 557  | 5250             | 4.76             | 36,200   | 36   | 35,600   | 36   | 34,800   | 34   | 33,800   | 33   |  |  |  |  |  |  |
| 584  | 5500             | 5.22             | 38,200   | 42   | 37,600   | 41   | 36,800   | 40   | 35,900   | 39   |  |  |  |  |  |  |
| 610  | 5750             | 5.71             | 40,100   | 48   | 39,500   | 47   | 38,900   | 47   | 38,100   | 45   |  |  |  |  |  |  |
| 637  | 6000             | 6.21             | 42,100   | 54   | 41,500   | 54   | 41,000   | 54   | 40,300   | 52   |  |  |  |  |  |  |
| 663  | 6250             | 6.74             | 44,000   | 62   | 43,800   | 62   | 42,900   | 60   | 42,400   | 60   |  |  |  |  |  |  |
| 690  | 6500             | 7.29             |  |  | 45,400   | 70   | 45,000   | 68   | 44,400   | 68   |  |  |  |  |  |  |
| 716  | 6750             | 7.86             |  |  | 47,400   | 78   | 46,800   | 78   | 46,800   | 76   |  |  |  |  |  |  |
| 743  | 7000             | 8.45             |  |  | 49,200   | 88   | 48,800   | 86   | 48,400   | 86   |  |  |  |  |  |  |
| 766  | 7500             | 9.71             |  |  |  |  | 52,700   | 105  | 52,200   | 105  |  |  |  |  |  |  |
| 849  | 8000             | 11.04            |  |  |  |  |  |  | 56,100   | 130  |  |  |  |  |  |  |
| 902  | 8500             | 12.48            |  |  |  |  |  |  | 60,000   | 155  |  |  |  |  |  |  |
| 955  | 9000             | 14.00            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1008   | 9500             | 15.58            |  |  |  |  |  |  | 63,300   | 185  |  |  |  |  |  |  |
| 1060   | 10000            | 17.27            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| R.P.M.   | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 3 1/2" Water 2.02 oss. per sq. inch                | Static Pressure 4" Water 2.31 oss. per sq. inch            | Static Pressure 4 1/2" Water 2.69 oss. per sq. inch                | Static Pressure 5" Water 3.47 oss. per sq. inch            | Static Pressure 5 1/2" Water 4.06 oss. per sq. inch                | Static Pressure 6" Water 4.63 oss. per sq. inch            | Static Pressure 6 1/2" Water 5.2 oss. per sq. inch                 | Static Pressure 7" Water 5.8 oss. per sq. inch             |  |  |  |  |  |  |
| 584  | 5500             | 5.22             | 23,700   | 24   |  |  |  |  |  |  |  |  |  |  |  |  |
| 610  | 5750             | 5.71             | 28,600   | 32   | 21,900   | 24.5   |  |  |  |  |  |  |  |  |  |  |
| 637  | 6000             | 6.21             | 32,500   | 39   | 27,900   | 34   |  |  |  |  |  |  |  |  |  |  |
| 663  | 6250             | 6.74             | 35,800   | 47   | 32,300   | 42   |  |  |  |  |  |  |  |  |  |  |
| 690  | 6500             | 7.29             | 38,600   | 56   | 35,900   | 50   | 26,400   | 38   |  |  |  |  |  |  |  |  |
| 716  | 6750             | 7.86             | 41,200   | 66   | 39,000   | 60   | 32,000   | 49   |  |  |  |  |  |  |  |  |
| 743  | 7000             | 8.45             | 43,700   | 76   | 41,900   | 70   | 36,300   | 60   | 25,100   | 42   |  |  |  |  |  |  |
| 766  | 7500             | 9.71             | 48,400   | 98   | 47,000   | 94   | 43,100   | 82   | 37,000   | 68   |  |  |  |  |  |  |
| 849  | 8000             | 11.04            | 52,900   | 120  | 51,600   | 120  | 48,500   | 110  | 44,400   | 90   |  |  |  |  |  |  |
| 902  | 8500             | 12.48            | 57,100   | 150  | 56,000   | 145  | 53,500   | 135  | 50,400   | 125  |  |  |  |  |  |  |
| 955  | 9000             | 14.00            | 61,100   | 180  | 60,400   | 175  | 58,100   | 170  | 55,500   | 160  |  |  |  |  |  |  |
| 1008   | 9500             | 15.58            | 65,300   | 215  | 64,500   | 210  | 62,600   | 205  | 60,400   | 195  |  |  |  |  |  |  |
| 1060   | 10000            | 17.27            | 69,200   | 250  | 68,700   | 250  | 67,000   | 240  | 65,000   | 230  |  |  |  |  |  |  |

| Single Inlet   |                  | Size "J" Supervane Fan—Design 1 |  |       |  |       |  |       |  |       |   | Single Width |  |   |
|--|------------------|---------------------------------|--|-------|--|-------|--|-------|--|-------|---|--------------|--|---|
| When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances |                  |                                 |  |       |  |       |  |       |  |       |   |              |  |   |
| R.P.M.   | Tip Speed F.P.M. | S.N.D. in inches                | Volume C.F.M.                                    | H. P. | Volume C.F.M.                                    | H. P. | Volume C.F.M.                                    | H. P. | Volume C.F.M.                                    | H. P. | Volume C.F.M.                                   | H. P.        | Volume C.F.M.                                    | H. P.   |
|  |                  |                                 | Static Pressure ½" Water .0722 ozs. per sq. inch |       | Static Pressure ¼" Water .145 ozs. per sq. inch  |       | Static Pressure ⅜" Water .217 ozs. per sq. inch  |       | Static Pressure ½" Water .289 ozs. per sq. inch  |       | Static Pressure ⅝" Water .361 ozs. per sq. inch |              | Static Pressure ¾" Water .434 ozs. per sq. inch  | Static Pressure ⅞" Water .506 ozs. per sq. inch |
| 96   | 1010             | 176                             | 4,480  | 0.155 |  |       |  |       |  |       |   |              |  |   |
| 115  | 1200             | 219                             | 8,600  | 0.425 |  |       |  |       |  |       |   |              |  |   |
| 131  | 1100             | 338                             | 11,100   | 0.76  |  |       |  |       |  |       |   |              |  |   |
| 153  | 1600             | 441                             | 13,100   | 1.20  | 10,700   | 0.92  |  |       |  |       |   |              |  |   |
| 172  | 1800             | 559                             | 15,200   | 1.80  | 13,600   | 1.55  | 9,550  | 1.05  |  |       |   |              |  |   |
| 191  | 2000             | 690                             | 17,100   | 2.45  | 15,900   | 2.25  | 13,700   | 1.85  |  |       |   |              |  |   |
| 210  | 2200             | 835                             | 19,100   | 3.35  | 18,100   | 3.15  | 16,600   | 2.8   | 13,900   | 2.2   |   |              |  |   |
| 229  | 2400             | 994                             |  |       | 20,100   | 4.2   | 18,900   | 3.9   | 17,200   | 3.4   | 13,900  | 2.7          |  |   |
| 248  | 2600             | 1,177                           |  |       | 22,300   | 5.4   | 21,100   | 5.1   | 19,800   | 4.7   | 18,000  | 4.1          | 15,000   | 3.4   |
| 268  | 2800             | 1,355                           |  |       | 24,100   | 6.8   | 23,100   | 6.5   | 22,200   | 6.2   | 20,800  | 5.7          | 19,000   | 5.0   |
| 287  | 3000             | 1,555                           |  |       | 26,000   | 8.5   | 25,200   | 8.2   | 24,400   | 7.9   | 23,300  | 7.4          | 21,900   | 6.8   |
| 306  | 3200             | 1,777                           |  |       | 27,800   | 10.5  | 27,200   | 10.0  | 26,500   | 9.7   | 25,600  | 9.4          | 24,500   | 8.8   |
| 325  | 3400             | 2,000                           |  |       |  |       | 29,100   | 12.0  | 28,500   | 12.0  | 27,800  | 11.5         | 26,800   | 11.0  |
| 344  | 3600             | 2,244                           |  |       |  |       | 31,100   | 14.5  | 30,400   | 14.5  | 29,800  | 14.0         | 29,100   | 13.5  |
| 363  | 3800             | 2,499                           |  |       |  |       | 33,000   | 17    | 32,500   | 17    | 31,800  | 17.0         | 31,100   | 16.0  |
| 382  | 4000             | 2,766                           |  |       |  |       |  |       | 34,400   | 20    | 33,800  | 19.5         | 33,200   | 19.0  |
| 401  | 4200             | 3,041                           |  |       |  |       |  |       | 36,300   | 23    | 35,800  | 23           | 35,300   | 22.5  |
| 420  | 4400             | 3,344                           |  |       |  |       |  |       | 38,200   | 27    | 37,800  | 27           | 37,300   | 26  |
| 440  | 4600             | 3,655                           |  |       |  |       |  |       |  |       | 39,700  | 31           | 39,200   | 30  |
| 459  | 4800             | 3,988                           |  |       |  |       |  |       |  |       | 41,500  | 35           | 41,100   | 34  |
| 478  | 5000             | 4,331                           |  |       |  |       |  |       |  |       | 43,500  | 39           | 43,100   | 39  |
| 501  | 5250             | 4,766                           |  |       |  |       |  |       |  |       |   |              | 45,400   | 46  |
| 545  | 5500             | 5,222                           |  |       |  |       |  |       |  |       |   |              | 47,900   | 52  |
| 549  | 5750             | 5,711                           |  |       |  |       |  |       |  |       |   |              |  | 49,900  |
|  |                  |                                 |  |       |  |       |  |       |  |       |   |              |  | 60  |
| R.P.M.   | Tip Speed F.P.M. | S.N.D. in inches                | Static Pressure 1" Water .578 ozs. per sq. inch  |       | Static Pressure 1¼" Water .723 ozs. per sq. inch |       | Static Pressure 1½" Water .878 ozs. per sq. inch |       | Static Pressure 1¾" Water 1.01 ozs. per sq. inch |       | Static Pressure 2" Water 1.16 ozs. per sq. inch |              | Static Pressure 2½" Water 1.45 ozs. per sq. inch | Static Pressure 3" Water 1.73 ozs. per sq. inch |
| 287  | 3000             | 1,555                           | 17,200   | 5.2   |  |       |  |       |  |       |   |              |  |   |
| 306  | 3200             | 1,777                           | 21,400   | 7.3   | 14,400   | 5.0   |  |       |  |       |   |              |  |   |
| 325  | 3400             | 2,000                           | 24,400   | 9.7   | 20,400   | 7.9   |  |       |  |       |   |              |  |   |
| 344  | 3600             | 2,244                           | 27,200   | 12.5  | 24,200   | 10.5  | 19,100   | 8.3   |  |       |   |              |  |   |
| 363  | 3800             | 2,499                           | 29,500   | 15.0  | 27,300   | 13.5  | 23,900   | 11.5  | 17,600   | 8.6   |   |              |  |   |
| 382  | 4000             | 2,766                           | 31,800   | 18.0  | 30,000   | 16.5  | 27,700   | 15.0  | 23,500   | 12.5  |   |              |  |   |
| 401  | 4200             | 3,041                           | 34,000   | 21.5  | 32,500   | 20    | 30,700   | 18.5  | 27,500   | 16.0  | 23,200  | 13.5         |  |   |
| 420  | 4400             | 3,344                           | 36,200   | 25    | 34,800   | 24    | 33,200   | 22.5  | 30,800   | 20.5  | 27,800  | 18.0         |  |   |
| 440  | 4600             | 3,655                           | 38,300   | 29    | 37,000   | 28    | 35,500   | 26    | 33,800   | 24.5  | 31,400  | 22.5         | 23,200   | 16.5  |
| 459  | 4800             | 3,988                           | 40,400   | 34    | 39,100   | 32    | 37,800   | 31    | 36,400   | 29    | 34,400  | 27           | 28,500   | 22  |
| 478  | 5000             | 4,331                           | 42,300   | 38    | 41,800   | 37    | 40,100   | 36    | 38,700   | 34    | 37,200  | 32           | 32,600   | 27  |
| 501  | 5250             | 4,766                           | 44,700   | 45    | 43,900   | 44    | 42,800   | 42    | 41,700   | 41    | 40,400  | 39           | 36,800   | 34  |
| 525  | 5500             | 5,222                           | 47,100   | 52    | 46,300   | 50    | 45,500   | 50    | 44,400   | 48    | 43,200  | 46           | 40,100   | 42  |
| 549  | 5750             | 5,711                           | 49,500   | 60    | 48,800   | 58    | 48,000   | 58    | 47,100   | 56    | 46,000  | 54           | 43,000   | 50  |
| 574  | 6000             | 6,211                           | 51,900   | 68    | 51,300   | 66    | 50,500   | 66    | 49,700   | 64    | 48,800  | 64           | 46,000   | 60  |
| 597  | 6250             | 6,744                           | 54,300   | 76    | 53,700   | 74    | 53,000   | 74    | 52,200   | 74    | 51,400  | 72           | 49,500   | 68  |
| 621  | 6500             | 7,299                           |  |       | 56,000   | 86    | 55,500   | 84    | 54,700   | 84    | 54,000  | 82           | 52,100   | 78  |
| 645  | 6750             | 7,866                           |  |       | 58,500   | 96    | 57,800   | 95    | 57,100   | 94    | 56,500  | 94           | 55,000   | 90  |
| 669  | 7000             | 8,455                           |  |       | 60,700   | 110   | 60,200   | 105   | 59,600   | 105   | 59,100  | 105          | 57,500   | 100   |
| 716  | 7500             | 9,711                           |  |       |  |       | 65,000   | 135   | 64,500   | 130   | 64,000  | 130          | 62,800   | 130   |
| 704  | 8000             | 11,044                          |  |       |  |       |  |       | 69,200   | 160   | 68,700  | 160          | 67,800   | 155   |
| 812  | 8500             | 12,488                          |  |       |  |       |  |       | 74,000   | 195   | 73,600  | 190          | 72,600   | 190   |
| 860  | 9000             | 14,000                          |  |       |  |       |  |       |  |       | 78,100  | 230          | 77,400   | 225   |
| 908  | 9500             | 15,588                          |  |       |  |       |  |       |  |       |   |              | 82,300   | 270   |
| 955  | 10000            | 17,277                          |  |       |  |       |  |       |  |       |   |              | 86,900   | 315   |
|  |                  |                                 |  |       |  |       |  |       |  |       |   |              |  | 310   |
| R.P.M.   | Tip Speed F.P.M. | S.N.D. in inches                | Static Pressure 3½" Water 2.92 ozs. per sq. inch |       | Static Pressure 4" Water 2.31 ozs. per sq. inch  |       | Static Pressure 5" Water 2.89 ozs. per sq. inch  |       | Static Pressure 6" Water 3.47 ozs. per sq. inch  |       | Static Pressure 7" Water 4.05 ozs. per sq. inch |              | Static Pressure 8" Water 4.63 ozs. per sq. inch  | Static Pressure 9" Water 5.2 ozs. per sq. inch  |
| 525  | 5500             | 5,222                           | 29,200   | 30    |  |       |  |       |  |       |   |              |  |   |
| 549  | 5750             | 5,711                           | 35,400   | 39    | 27,100   | 30    |  |       |  |       |   |              |  |   |
| 574  | 6000             | 6,211                           | 40,000   | 48    | 34,400   | 42    |  |       |  |       |   |              |  |   |
| 597  | 6250             | 6,744                           | 44,100   | 58    | 39,800   | 52    |  |       |  |       |   |              |  |   |
| 621  | 6500             | 7,299                           | 47,900   | 70    | 44,300   | 62    | 32,500   | 46    |  |       |   |              |  |   |
| 645  | 6750             | 7,866                           | 50,900   | 80    | 48,100   | 74    | 39,400   | 60    |  |       |   |              |  |   |
| 669  | 7000             | 8,455                           | 54,000   | 94    | 51,700   | 88    | 44,800   | 74    | 31,000   | 52    |   |              |  |   |
| 716  | 7500             | 9,711                           | 59,600   | 120   | 58,000   | 115   | 53,100   | 100   | 45,600   | 84    |   |              |  |   |
| 704  | 8000             | 11,044                          | 65,100   | 150   | 63,600   | 145   | 59,900   | 135   | 54,800   | 120   | 47,000  | 100          |  |   |
| 812  | 8500             | 12,488                          | 70,400   | 185   | 69,200   | 180   | 66,000   | 170   | 62,100   | 155   | 56,800  | 140          | 49,000   | 120   |
| 860  | 9000             | 14,000                          | 75,300   | 220   | 74,500   | 215   | 71,800   | 210   | 68,500   | 195   | 64,800  | 180          | 59,200   | 160   |
| 908  | 9500             | 15,588                          | 80,500   | 265   | 79,500   | 260   | 77,300   | 250   | 74,500   | 240   | 71,500  | 225          | 67,400   | 205   |
| 955  | 10000            | 17,277                          | 85,300   | 310   | 84,600   | 305   | 82,500   | 300   | 80,100   | 285   | 77,500  | 275          | 74,500   | 260   |
|  |                  |                                 |  |       |  |       |  |       |  |       |   |              |  | 240   |

**Single Inlet      Size "K" Supervane Fan—Design 1      Single Width**  
**When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances**

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M. Static Pressure 1/2" Water .0722 ozs. per sq. inch | H. P. | Volume C.F.M. Static Pressure 1/2" Water .145 ozs. per sq. inch | H. P. | Volume C.F.M. Static Pressure 3/4" Water .217 ozs. per sq. inch | H. P. | Volume C.F.M. Static Pressure 1" Water .289 ozs. per sq. inch | H. P. | Volume C.F.M. Static Pressure 1 1/4" Water .361 ozs. per sq. inch | H. P. | Volume C.F.M. Static Pressure 1 1/2" Water .434 ozs. per sq. inch | H. P.  | Volume C.F.M. Static Pressure 1 3/4" Water .506 ozs. per sq. inch | H. P. |
|--------|------------------|------------------|--|-------|---|-------|---|-------|---|-------|---|-------|---|--------|---|-------|
| 84     | 1010             | .176             | 5,940  | 0.205 |   |       |   |       |   |       |   |       |   |        |   |       |
| 100    | 1200             | .249             | 11,400   | 0.56  |   |       |   |       |   |       |   |       |   |        |   |       |
| 116    | 1400             | .338             | 14,700   | 1.00  |   |       |   |       |   |       |   |       |   |        |   |       |
| 133    | 1600             | .441             | 17,300   | 1.60  | 14,200  | 1.20  |   |       |   |       |   |       |   |        |   |       |
| 150    | 1800             | .559             | 20,200   | 2.35  | 18,000  | 2.05  | 12,700  | 1.40  |   |       |   |       |   |        |   |       |
| 166    | 2000             | .690             | 22,600   | 3.25  | 21,100  | 3.0   | 18,200  | 2.45  |   |       |   |       |   |        |   |       |
| 183    | 2200             | .835             | 25,400   | 4.45  | 24,000  | 4.2   | 22,000  | 3.7   | 18,500  | 2.9   |   |       |   |        |   |       |
| 199    | 2400             | .994             |  |       | 26,700  | 5.6   | 25,100  | 5.2   | 22,800  | 4.5   | 18,500  | 3.55  |   |        |   |       |
| 216    | 2600             | 1.17             |  |       | 29,600  | 7.2   | 28,000  | 6.8   | 26,300  | 6.2   | 23,900  | 5.4   | 19,800  | 4.5    |   |       |
| 233    | 2800             | 1.35             |  |       | 31,900  | 9.0   | 30,600  | 8.6   | 29,400  | 8.2   | 27,600  | 7.5   | 25,200  | 6.6    | 21,100  | 5.6   |
| 249    | 3000             | 1.55             |  |       | 33,400  | 11.5  | 33,400  | 11.0  | 32,300  | 10.5  | 30,900  | 9.8   | 29,100  | 9.0    | 26,600  | 8     |
| 266    | 3200             | 1.77             |  |       | 36,900  | 13.5  | 36,100  | 13.5  | 35,100  | 13.0  | 33,900  | 12.5  | 32,500  | 11.5   | 30,700  | 11    |
| 282    | 3400             | 2.00             |  |       |   |       | 38,600  | 16.0  | 37,800  | 16.0  | 36,800  | 15.0  | 35,500  | 14.5   | 34,300  | 14    |
| 299    | 3600             | 2.24             |  |       |   |       | 41,300  | 19.5  | 40,400  | 19.0  | 39,600  | 18.5  | 38,600  | 18.0   | 37,300  | 17    |
| 316    | 3800             | 2.49             |  |       |   |       | 43,700  | 23    | 43,100  | 22.5  | 42,200  | 22    | 41,300  | 21.5   | 40,300  | 21    |
| 332    | 4000             | 2.76             |  |       |   |       |   |       | 45,600  | 27    | 44,900  | 26    | 44,100  | 26     | 43,200  | 25    |
| 349    | 4200             | 3.04             |  |       |   |       |   |       | 48,100  | 31    | 47,500  | 30    | 46,800  | 30     | 46,000  | 29    |
| 365    | 4400             | 3.34             |  |       |   |       |   |       | 50,700  | 36    | 50,100  | 35    | 49,500  | 35     | 48,700  | 34    |
| 382    | 4600             | 3.65             |  |       |   |       |   |       |   |       | 52,600  | 41    | 52,000  | 40     | 51,400  | 39    |
| 399    | 4800             | 3.98             |  |       |   |       |   |       |   |       | 55,100  | 46    | 54,500  | 46     | 54,000  | 45    |
| 415    | 5000             | 4.31             |  |       |   |       |   |       |   |       | 57,600  | 52    | 57,200  | 52     | 56,600  | 52    |
| 436    | 5250             | 4.76             |  |       |   |       |   |       |   |       |   |       | 60,300  | 60     | 59,800  | 60    |
| 456    | 5500             | 5.22             |  |       |   |       |   |       |   |       |   |       | 63,500  | 70     | 63,000  | 68    |
| 477    | 5750             | 5.71             |  |       |   |       |   |       |   |       |   |       |   | 66,100 | 80  |       |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 ozs. per sq. inch                  | H. P. | Static Pressure 1 1/4" Water .723 ozs. per sq. inch             | H. P. | Static Pressure 1 1/2" Water .878 ozs. per sq. inch             | H. P. | Static Pressure 1 3/4" Water 1.01 ozs. per sq. inch           | H. P. | Static Pressure 2" Water 1.16 ozs. per sq. inch                   | H. P. | Static Pressure 2 1/4" Water 1.45 ozs. per sq. inch               | H. P.  | Static Pressure 2 1/2" Water 1.73 ozs. per sq. inch               | H. P. |
| 249    | 3000             | 1.55             | 22,800   | 6.9   |   |       |   |       |   |       |   |       |   |        |   |       |
| 266    | 3200             | 1.77             | 28,400   | 9.7   | 19,100  | 6.6   |   |       |   |       |   |       |   |        |   |       |
| 282    | 3400             | 2.00             | 32,400   | 13.0  | 27,000  | 10.5  |   |       |   |       |   |       |   |        |   |       |
| 299    | 3600             | 2.24             | 36,000   | 16.5  | 32,000  | 14    | 25,400  | 11.0  |   |       |   |       |   |        |   |       |
| 316    | 3800             | 2.49             | 39,200   | 20    | 36,200  | 18    | 31,700  | 15.5  | 23,300  | 11.5  |   |       |   |        |   |       |
| 332    | 4000             | 2.76             | 42,200   | 24    | 39,800  | 22    | 36,700  | 20.0  | 31,100  | 16.5  |   |       |   |        |   |       |
| 349    | 4200             | 3.04             | 45,100   | 28    | 43,100  | 27    | 40,700  | 24.5  | 36,500  | 21.5  | 30,800  | 18    |   |        |   |       |
| 365    | 4400             | 3.34             | 48,100   | 33    | 46,200  | 32    | 44,000  | 30    | 40,900  | 27    | 36,900  | 24    |   |        |   |       |
| 382    | 4600             | 3.65             | 50,800   | 39    | 49,100  | 37    | 47,100  | 35    | 44,800  | 33    | 41,700  | 30    |   |        |   |       |
| 399    | 4800             | 3.98             | 53,500   | 45    | 51,900  | 43    | 50,100  | 41    | 46,200  | 39    | 45,700  | 36    | 30,700  | 22     |   |       |
| 415    | 5000             | 4.31             | 56,100   | 52    | 54,700  | 49    | 53,100  | 47    | 51,500  | 45    | 49,400  | 43    | 37,800  | 29     |   |       |
| 436    | 5250             | 4.76             | 59,300   | 60    | 58,100  | 58    | 56,700  | 56    | 55,300  | 54    | 53,600  | 52    | 43,300  | 36     | 31,900  | 27    |
| 456    | 5500             | 5.22             | 62,500   | 68    | 61,400  | 68    | 60,300  | 66    | 58,900  | 64    | 57,400  | 62    | 48,800  | 46     | 41,200  | 38    |
| 477    | 5750             | 5.71             | 65,600   | 78    | 64,800  | 78    | 63,700  | 76    | 62,400  | 74    | 61,100  | 72    | 53,300  | 56     | 48,000  | 48    |
| 498    | 6000             | 6.21             | 68,800   | 90    | 68,000  | 88    | 67,000  | 88    | 66,000  | 86    | 64,700  | 84    | 57,900  | 68     | 53,400  | 60    |
| 519    | 6250             | 6.74             | 72,000   | 100   | 71,300  | 100   | 70,200  | 100   | 69,400  | 98    | 68,200  | 96    | 61,800  | 78     | 58,200  | 72    |
| 540    | 6500             | 7.29             | 74,300   | 115   | 73,500  | 110   | 72,600  | 110   | 72,000  | 110   | 71,700  | 110   | 65,600  | 92     | 62,500  | 84    |
| 560    | 6750             | 7.86             | 77,500   | 130   | 77,500  | 130   | 76,700  | 125   | 75,900  | 125   | 75,000  | 125   | 69,200  | 105    | 66,600  | 100   |
| 581    | 7000             | 8.45             |  |       | 80,500  | 145   | 80,000  | 140   | 79,100  | 140   | 78,400  | 140   | 72,900  | 120    | 70,400  | 115   |
| 623    | 7500             | 9.71             |  |       |   |       | 86,100  | 175   | 85,500  | 175   | 84,900  | 170   | 76,400  | 135    | 74,100  | 130   |
| 664    | 8000             | 11.04            |  |       |   |       |   |       | 92,000  | 215   | 91,100  | 210   | 83,400  | 170    | 81,400  | 165   |
| 705    | 8500             | 12.48            |  |       |   |       |   |       | 98,300  | 255   | 97,700  | 255   | 90,000  | 210    | 88,300  | 205   |
| 747    | 9000             | 14.00            |  |       |   |       |   |       |   |       | 103,600   | 305   | 96,400  | 255    | 94,800  | 250   |
| 788    | 9500             | 15.58            |  |       |   |       |   |       |   |       |   |       | 103,000   | 300    | 102,000   | 300   |
| 830    | 10000            | 17.27            |  |       |   |       |   |       |   |       |   |       | 109,000   | 355    | 108,000   | 350   |
|        |                  |                  |  |       |   |       |   |       |   |       |   |       | 115,000   | 415    | 114,000   | 415   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 3 1/2" Water 2.02 ozs. per sq. inch              | H. P. | Static Pressure 4" Water 2.31 ozs. per sq. inch                 | H. P. | Static Pressure 5" Water 2.89 ozs. per sq. inch                 | H. P. | Static Pressure 6" Water 3.47 ozs. per sq. inch               | H. P. | Static Pressure 7" Water 4.05 ozs. per sq. inch                   | H. P. | Static Pressure 8" Water 4.63 ozs. per sq. inch                   | H. P.  | Static Pressure 9" Water 5.2 ozs. per sq. inch                    | H. P. |
| 456    | 5500             | 5.22             | 38,700   | 39    |   |       |   |       |   |       |   |       |   |        |   |       |
| 477    | 5750             | 5.71             | 46,900   | 52    | 35,900  | 40    |   |       |   |       |   |       |   |        |   |       |
| 498    | 6000             | 6.21             | 53,100   | 64    | 45,600  | 50    |   |       |   |       |   |       |   |        |   |       |
| 519    | 6250             | 6.74             | 58,500   | 78    | 52,900  | 68    |   |       |   |       |   |       |   |        |   |       |
| 540    | 6500             | 7.29             | 63,200   | 92    | 58,800  | 84    | 43,100  | 62    |   |       |   |       |   |        |   |       |
| 560    | 6750             | 7.86             | 67,500   | 105   | 63,900  | 100   | 52,300  | 80    |   |       |   |       |   |        |   |       |
| 581    | 7000             | 8.45             | 71,600   | 125   | 68,500  | 115   | 59,400  | 96    | 41,200  | 68    |   |       |   |        |   |       |
| 623    | 7500             | 9.71             | 79,100   | 160   | 76,800  | 150   | 70,500  | 135   | 60,500  | 110   |   |       |   |        |   |       |
| 664    | 8000             | 11.04            | 86,400   | 200   | 84,400  | 195   | 79,400  | 175   | 72,600  | 155   | 62,300  | 135   |   |        |   |       |
| 705    | 8500             | 12.48            | 93,500   | 245   | 91,800  | 240   | 87,500  | 225   | 82,500  | 205   | 75,400  | 185   |   |        |   |       |
| 747    | 9000             | 14.00            | 95,900   | 295   | 98,800  | 290   | 95,100  | 275   | 90,700  | 260   | 85,900  | 240   | 65,000  | 160    |   |       |
| 788    | 9500             | 15.58            | 107,000  | 350   | 106,000   | 345   | 103,000   | 330   | 98,800  | 315   | 94,800  | 300   | 78,500  | 210    | 68,700  | 185   |
| 830    | 10000            | 17.27            | 113,000  | 410   | 112,000   | 405   | 110,000   | 395   | 106,000   | 380   | 103,000   | 360   | 89,400  | 275    | 82,500  | 250   |
|        |                  |                  |  |       |   |       |   |       |   |       |   |       | 98,800  | 340    | 93,300  | 320   |

Single Inlet

## Size "L" Supervane Fan—Design 1

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. |
|--------|------------------|------------------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|
|        |                  |                  | Static Pressure 1/2" Water .0722 ozs. per sq. inch  |       | Static Pressure 1/2" Water .145 ozs. per sq. inch   |       | Static Pressure 1/2" Water .217 ozs. per sq. inch   |       | Static Pressure 1/2" Water .289 ozs. per sq. inch   |       | Static Pressure 1/2" Water .361 ozs. per sq. inch   |       | Static Pressure 1/2" Water .434 ozs. per sq. inch   |       | Static Pressure 1/2" Water .506 ozs. per sq. inch   |       |
| 74     | 1010             | .176             | 7,570   | .26   |   |       |   |       |   |       |   |       |   |       |   |       |
| 88     | 1200             | .249             | 14,500  | .72   |   |       |   |       |   |       |   |       |   |       |   |       |
| 103    | 1400             | .338             | 18,700  | 1.30  |   |       |   |       |   |       |   |       |   |       |   |       |
| 118    | 1600             | .441             | 22,100  | 2.05  | 18,000  | 1.55  |   |       |   |       |   |       |   |       |   |       |
| 132    | 1800             | .559             | 25,800  | 3.00  | 22,900  | 2.6   | 16,200  | 1.75  |   |       |   |       |   |       |   |       |
| 147    | 2000             | .690             | 28,900  | 4.15  | 26,900  | 3.8   | 23,200  | 3.1   |   |       |   |       |   |       |   |       |
| 162    | 2200             | .835             | 32,400  | 5.7   | 30,600  | 5.3   | 28,000  | 4.7   | 23,500  | 3.75  |   |       |   |       |   |       |
| 176    | 2400             | .984             |   |       | 34,000  | 7.1   | 32,000  | 6.6   | 29,100  | 5.7   | 23,500  | 4.55  |   |       |   |       |
| 191    | 2600             | 1.17             |   |       | 37,700  | 9.1   | 35,800  | 8.7   | 33,500  | 7.9   | 30,400  | 6.9   | 25,300  | 5.7   |   |       |
| 206    | 2800             | 1.35             |   |       | 40,700  | 11.5  | 39,000  | 11.0  | 37,500  | 10.5  | 35,200  | 9.6   | 32,000  | 8.4   | 26,900  | 7.1   |
| 220    | 3000             | 1.55             |   |       | 44,000  | 14.5  | 42,600  | 14.0  | 41,200  | 13.5  | 39,400  | 12.5  | 37,000  | 11.5  | 33,900  | 10.0  |
| 235    | 3200             | 1.77             |   |       | 47,000  | 17.5  | 46,000  | 17.0  | 44,700  | 16.5  | 43,200  | 16.0  | 41,400  | 15.0  | 39,100  | 13.5  |
| 250    | 3400             | 2.00             |   |       |   |       | 49,300  | 20.5  | 48,200  | 20.0  | 46,900  | 19.5  | 45,300  | 18.5  | 43,600  | 17.5  |
| 264    | 3600             | 2.24             |   |       |   |       | 52,600  | 24.5  | 51,500  | 24.5  | 50,500  | 23.5  | 49,100  | 23    | 47,500  | 22    |
| 279    | 3800             | 2.49             |   |       |   |       | 55,700  | 29    | 54,900  | 29    | 53,700  | 28    | 52,600  | 27    | 51,300  | 27    |
| 294    | 4000             | 2.76             |   |       |   |       |   |       | 58,100  | 34    | 57,100  | 33    | 56,200  | 32    | 55,000  | 32    |
| 309    | 4200             | 3.04             |   |       |   |       |   |       | 61,400  | 39    | 60,500  | 39    | 59,600  | 38    | 58,600  | 37    |
| 323    | 4400             | 3.34             |   |       |   |       |   |       | 64,600  | 45    | 63,800  | 45    | 63,000  | 44    | 62,100  | 44    |
| 338    | 4600             | 3.65             |   |       |   |       |   |       |   |       | 67,100  | 52    | 66,300  | 50    | 65,400  | 50    |
| 353    | 4800             | 3.98             |   |       |   |       |   |       |   |       | 70,200  | 58    | 69,500  | 58    | 68,900  | 58    |
| 368    | 5000             | 4.31             |   |       |   |       |   |       |   |       | 73,400  | 66    |   |       | 72,100  | 66    |
| 386    | 5250             | 4.76             |   |       |   |       |   |       |   |       |   |       | 76,900  | 76    | 76,100  | 76    |
| 401    | 5500             | 5.22             |   |       |   |       |   |       |   |       |   |       | 80,800  | 88    | 80,200  | 88    |
| 423    | 5750             | 5.71             |   |       |   |       |   |       |   |       |   |       |   |       | 84,300  | 100   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1 1/2" Water .578 ozs. per sq. inch |       | Static Pressure 1 1/2" Water .723 ozs. per sq. inch |       | Static Pressure 1 1/2" Water .878 ozs. per sq. inch |       | Static Pressure 1 1/2" Water 1.01 ozs. per sq. inch |       | Static Pressure 1 1/2" Water 1.16 ozs. per sq. inch |       | Static Pressure 2 1/2" Water 1.45 ozs. per sq. inch |       | Static Pressure 2 1/2" Water 1.73 ozs. per sq. inch |       |
| 220    | 3000             | 1.55             | 29,100  | 8.8   |   |       |   |       |   |       |   |       |   |       |   |       |
| 235    | 3200             | 1.77             | 36,100  | 12.5  | 24,400  | 8.4   |   |       |   |       |   |       |   |       |   |       |
| 250    | 3400             | 2.00             | 41,300  | 16.5  | 34,400  | 13.5  |   |       |   |       |   |       |   |       |   |       |
| 264    | 3600             | 2.24             | 45,900  | 20.5  | 40,800  | 17.5  | 32,300  | 14.0  |   |       |   |       |   |       |   |       |
| 279    | 3800             | 2.49             | 49,900  | 25    | 46,100  | 23    | 40,400  | 19.5  | 29,700  | 14.5  |   |       |   |       |   |       |
| 294    | 4000             | 2.76             | 53,800  | 31    | 50,700  | 28    | 46,800  | 25    | 39,700  | 21    |   |       |   |       |   |       |
| 309    | 4200             | 3.04             | 57,500  | 36    | 54,900  | 34    | 51,900  | 31    | 46,500  | 27    | 39,300  | 23    |   |       |   |       |
| 323    | 4400             | 3.34             | 61,200  | 43    | 58,800  | 41    | 56,000  | 38    | 52,100  | 34    | 47,000  | 30    |   |       |   |       |
| 338    | 4600             | 3.65             | 64,700  | 49    | 62,500  | 47    | 60,000  | 45    | 57,200  | 42    | 53,100  | 38    |   |       |   |       |
| 353    | 4800             | 3.98             | 68,200  | 56    | 66,100  | 54    | 63,800  | 52    | 61,400  | 49    | 58,200  | 46    |   |       |   |       |
| 368    | 5000             | 4.31             | 71,500  | 64    | 69,800  | 64    | 67,700  | 60    | 65,500  | 58    | 63,000  | 54    | 55,100  | 46    | 49,600  | 34    |
| 386    | 5250             | 4.76             | 75,500  | 76    | 74,000  | 76    | 72,200  | 72    | 70,500  | 70    | 68,200  | 66    | 62,200  | 58    | 52,500  | 48    |
| 404    | 5500             | 5.22             | 79,600  | 88    | 78,200  | 86    | 76,900  | 84    | 75,000  | 80    | 73,100  | 78    | 67,900  | 70    | 61,100  | 62    |
| 423    | 5750             | 5.71             | 83,600  | 100   | 82,500  | 98    | 81,200  | 98    | 79,500  | 94    | 77,900  | 92    | 73,800  | 86    | 68,100  | 76    |
| 441    | 6000             | 6.21             | 87,700  | 115   | 86,500  | 115   | 85,500  | 110   | 84,100  | 110   | 82,400  | 105   | 78,800  | 100   | 74,200  | 92    |
| 459    | 6250             | 6.74             | 91,800  | 130   | 90,800  | 130   | 89,500  | 125   | 88,400  | 125   | 87,000  | 120   | 83,600  | 115   | 79,600  | 110   |
| 478    | 6500             | 7.29             | 94,700  | 145   | 94,700  | 145   | 93,700  | 145   | 92,500  | 140   | 91,300  | 140   | 88,200  | 135   | 84,900  | 125   |
| 496    | 6750             | 7.86             | 98,800  | 165   | 98,800  | 165   | 97,700  | 160   | 96,600  | 160   | 95,500  | 160   | 92,900  | 150   | 89,700  | 145   |
| 514    | 7000             | 8.45             |   |       | 103,000   | 180   | 102,000   | 180   | 101,000   | 180   | 99,900  | 175   | 97,300  | 170   | 94,400  | 165   |
| 551    | 7500             | 9.71             |   |       |   |       | 110,000   | 225   | 109,000   | 220   | 108,000   | 220   | 106,000   | 215   | 104,000   | 210   |
| 588    | 8000             | 11.04            |   |       |   |       |   |       | 117,000   | 270   | 116,000   | 270   | 115,000   | 265   | 113,000   | 260   |
| 625    | 8500             | 12.48            |   |       |   |       |   |       | 125,000   | 325   | 124,000   | 325   | 123,000   | 320   | 121,000   | 315   |
| 661    | 9000             | 14.00            |   |       |   |       |   |       |   |       | 132,000   | 385   | 131,000   | 385   | 129,000   | 380   |
| 698    | 9500             | 15.58            |   |       |   |       |   |       |   |       |   |       | 139,000   | 455   | 138,000   | 450   |
| 734    | 10000            | 17.27            |   |       |   |       |   |       |   |       |   |       | 147,000   | 530   | 146,000   | 525   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 3 1/2" Water 2.02 ozs. per sq. inch |       | Static Pressure 4" Water 2.31 ozs. per sq. inch     |       | Static Pressure 5" Water 2.89 ozs. per sq. inch     |       | Static Pressure 6" Water 3.47 ozs. per sq. inch     |       | Static Pressure 7" Water 4.05 ozs. per sq. inch     |       | Static Pressure 8" Water 4.63 ozs. per sq. inch     |       | Static Pressure 9" Water 5.2 ozs. per sq. inch      |       |
| 404    | 5500             | 5.22             | 49,400  | 50    |   |       |   |       |   |       |   |       |   |       |   |       |
| 423    | 5750             | 5.71             | 59,800  | 66    | 45,800  | 52    |   |       |   |       |   |       |   |       |   |       |
| 441    | 6000             | 6.21             | 67,700  | 82    | 58,200  | 70    |   |       |   |       |   |       |   |       |   |       |
| 459    | 6250             | 6.74             | 74,600  | 98    | 67,400  | 88    |   |       |   |       |   |       |   |       |   |       |
| 478    | 6500             | 7.29             | 80,600  | 115   | 74,900  | 105   | 55,000  | 78    |   |       |   |       |   |       |   |       |
| 496    | 6750             | 7.86             | 86,100  | 135   | 81,400  | 125   | 66,600  | 100   |   |       |   |       |   |       |   |       |
| 514    | 7000             | 8.45             | 91,200  | 155   | 87,400  | 150   | 75,700  | 125   | 52,500  | 88    |   |       |   |       |   |       |
| 551    | 7500             | 9.71             | 101,000   | 200   | 98,000  | 195   | 89,800  | 170   | 77,200  | 140   |   |       |   |       |   |       |
| 588    | 8000             | 11.04            | 110,000   | 255   | 108,000   | 245   | 101,000   | 225   | 92,600  | 200   | 79,500  | 170   |   |       |   |       |
| 625    | 8500             | 12.48            | 119,000   | 310   | 117,000   | 305   | 112,000   | 285   | 105,000   | 260   | 96,000  | 230   | 82,800  | 200   |   |       |
| 661    | 9000             | 14.00            | 127,000   | 375   | 126,000   | 365   | 121,000   | 350   | 116,000   | 330   | 109,000   | 305   | 100,000   | 270   | 87,500  | 240   |
| 698    | 9500             | 15.58            | 136,000   | 445   | 135,000   | 440   | 131,000   | 425   | 126,000   | 405   | 121,000   | 380   | 114,000   | 350   | 105,000   | 315   |
| 734    | 10000            | 17.27            | 144,000   | 525   | 143,000   | 515   | 140,000   | 505   | 136,000   | 485   | 131,000   | 460   | 126,000   | 435   | 119,000   | 405   |

**Single Inlet      Size "M" Supervane Fan—Design 1      Single Width**  
**When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances**

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M. H. P. Static Pressure 1/2" Water .0722 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 3/4" Water .145 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1" Water .217 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1 1/4" Water .289 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1 1/2" Water .361 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1 3/4" Water .434 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 2" Water .506 ozs. per sq. inch |
|--------|------------------|------------------|--|---|---|---|---|---|---|
| 66     | 1010             | 1.76             | 9,430 325  |   |   |   |   |   |   |
| 79     | 1200             | 2.49             | 18,000 .89   |   |   |   |   |   |   |
| 92     | 1400             | 3.38             | 23,300 1.60  |   |   |   |   |   |   |
| 105    | 1600             | 4.41             | 27,500 2.55  | 24,500 1.95   |   |   |   |   |   |
| 118    | 1800             | 5.59             | 32,100 3.75  | 28,600 3.20   | 20,100 2.2  |   |   |   |   |
| 132    | 2000             | 6.90             | 35,900 5.2   | 33,500 4.75   | 28,800 3.9  |   |   |   |   |
| 145    | 2200             | 8.35             | 40,300 7.  | 38,000 6.6  | 34,000 5.9  | 29,300 4.65   |   |   |   |
| 158    | 2400             | 9.94             |  | 42,400 8.8  | 39,800 8.2  | 36,200 7.2  | 29,300 5.7  |   |   |
| 171    | 2600             | 1.17             |  | 46,900 11.5   | 44,500 11.0   | 41,700 9.9  | 37,900 8.6  | 31,500 7.1  |   |
| 184    | 2800             | 1.35             |  | 50,600 14.5   | 48,500 13.5   | 46,600 13.0   | 43,800 12.0   | 39,900 10.5   | 33,500 8.8  |
| 197    | 3000             | 1.55             |  | 54,700 18.0   | 53,100 17.5   | 51,300 16.5   | 49,000 15.5   | 46,100 14.5   | 42,200 12.5   |
| 210    | 3200             | 1.77             |  | 58,600 21.5   | 57,300 21.5   | 55,600 20.5   | 53,800 19.5   | 51,500 18.5   | 48,600 17.  |
| 224    | 3400             | 2.00             |  |   | 61,300 26   | 60,000 25   | 58,400 24.5   | 56,400 23   | 54,400 22   |
| 237    | 3600             | 2.24             |  |   | 65,500 31   | 64,100 30   | 62,800 29   | 61,200 28   | 59,200 27   |
| 250    | 3800             | 2.49             |  |   | 69,400 36   | 68,300 36   | 67,000 35   | 65,500 34   | 63,900 33   |
| 263    | 4000             | 2.76             |  |   |   | 72,400 42   | 71,200 41   | 69,900 40   | 68,500 39   |
| 276    | 4200             | 3.01             |  |   |   | 76,400 49   | 75,400 48   | 74,200 47   | 73,000 47   |
| 290    | 4400             | 3.31             |  |   |   | 80,500 56   | 79,500 56   | 78,400 54   | 77,300 54   |
| 303    | 4600             | 3.65             |  |   |   |   | 83,500 64   | 82,500 64   | 81,500 62   |
| 316    | 4800             | 3.98             |  |   |   |   | 87,400 72   | 86,500 72   | 85,700 72   |
| 329    | 5000             | 4.31             |  |   |   |   | 91,500 82   | 90,800 82   | 89,800 82   |
| 345    | 5250             | 4.76             |  |   |   |   |   | 95,600 96   | 94,900 96   |
| 362    | 5500             | 5.22             |  |   |   |   |   | 101,000 110   | 99,000 110  |
| 378    | 5750             | 5.71             |  |   |   |   |   |   | 105,000 125   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 ozs. per sq. inch                        | Static Pressure 1 1/4" Water .723 ozs. per sq. inch                   | Static Pressure 1 1/2" Water .878 ozs. per sq. inch                 | Static Pressure 1 3/4" Water 1.01 ozs. per sq. inch                     | Static Pressure 2" Water 1.16 ozs. per sq. inch                         | Static Pressure 2 1/4" Water 1.43 ozs. per sq. inch                     | Static Pressure 2 3/4" Water 1.73 ozs. per sq. inch                 |
| 197    | 3000             | 1.55             | 36,200 11.0  |   |   |   |   |   |   |
| 210    | 3200             | 1.77             | 45,000 15.5  | 30,300 10.5   |   |   |   |   |   |
| 224    | 3400             | 2.00             | 51,500 20.5  | 42,900 16.5   |   |   |   |   |   |
| 237    | 3600             | 2.24             | 57,100 26  | 50,800 22   | 40,200 17.5   |   |   |   |   |
| 250    | 3800             | 2.49             | 62,100 32  | 57,400 28   | 50,300 24.5   | 37,000 18   |   |   |   |
| 263    | 4000             | 2.76             | 67,000 38  | 63,100 35   | 58,300 31   | 49,400 26   |   |   |   |
| 276    | 4200             | 3.04             | 71,500 45  | 68,300 42   | 64,500 39   | 57,900 34   | 48,800 29   |   |   |
| 290    | 4400             | 3.34             | 76,200 54  | 73,300 50   | 69,800 47   | 64,900 43   | 58,500 38   |   |   |
| 303    | 4600             | 3.65             | 80,500 62  | 77,900 58   | 74,800 55   | 71,200 52   | 66,100 47   |   |   |
| 316    | 4800             | 3.98             | 84,900 70  | 82,300 68   | 79,500 64   | 76,500 62   | 72,600 58   | 48,800 35   |   |
| 329    | 5000             | 4.31             | 89,000 80  | 86,900 78   | 84,300 76   | 81,800 72   | 78,400 68   | 60,000 40   |   |
| 345    | 5250             | 4.76             | 94,000 94  | 92,200 94   | 90,000 88   | 87,700 86   | 84,900 82   | 80,600 58   | 50,600 43   |
| 362    | 5500             | 5.22             | 99,100 110   | 97,500 105  | 95,600 105  | 93,400 100  | 90,900 98   | 84,500 88   | 65,400 60   |
| 378    | 5750             | 5.71             | 104,000 125  | 103,000 125   | 101,000 120   | 99,000 120  | 97,000 115  | 91,900 105  | 76,000 76   |
| 395    | 6000             | 6.21             | 109,000 140  | 108,000 140   | 106,000 140   | 105,000 135   | 103,000 135   | 98,000 125  | 84,800 94   |
| 411    | 6250             | 6.74             | 114,000 160  | 113,000 160   | 111,000 160   | 110,000 155   | 108,000 150   | 104,000 145   | 92,300 115  |
| 428    | 6500             | 7.29             | 118,000 180  | 117,000 180   | 115,000 175   | 114,000 175   | 112,000 165   | 109,000 155   | 99,100 135  |
| 444    | 6750             | 7.86             | 123,000 205  | 122,000 200   | 120,000 200   | 119,000 195   | 118,000 190   | 116,000 180   | 108,000 155   |
| 460    | 7000             | 8.45             |  | 128,000 225   | 127,000 225   | 126,000 225   | 124,000 220   | 121,000 215   | 112,000 180   |
| 494    | 7500             | 9.71             |  |   | 137,000 280   | 136,000 275   | 135,000 275   | 132,000 270   | 117,000 205   |
| 526    | 8000             | 11.04            |  |   |   | 146,000 340   | 145,000 335   | 143,000 330   | 129,000 260   |
| 560    | 8500             | 12.48            |  |   |   | 156,000 405   | 155,000 405   | 153,000 400   | 140,000 325   |
| 592    | 9000             | 14.00            |  |   |   |   | 165,000 480   | 163,000 480   | 150,000 395   |
| 625    | 9500             | 15.58            |  |   |   |   |   | 173,000 565   | 161,000 470   |
| 659    | 10000            | 17.27            |  |   |   |   |   | 183,000 660   | 171,000 560   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 3 1/4" Water 2.02 ozs. per sq. inch                    | Static Pressure 4" Water 2.31 ozs. per sq. inch                       | Static Pressure 5" Water 2.89 ozs. per sq. inch                     | Static Pressure 6" Water 3.47 ozs. per sq. inch                         | Static Pressure 7" Water 4.05 ozs. per sq. inch                         | Static Pressure 8" Water 4.63 ozs. per sq. inch                         | Static Pressure 9" Water 5.2 ozs. per sq. inch                      |
| 362    | 5500             | 5.22             | 61,500 62  |   |   |   |   |   |   |
| 378    | 5750             | 5.71             | 74,400 82  | 57,000 64   |   |   |   |   |   |
| 395    | 6000             | 6.21             | 81,300 100   | 72,500 88   |   |   |   |   |   |
| 411    | 6250             | 6.74             | 92,800 125   | 84,000 110  |   |   |   |   |   |
| 428    | 6500             | 7.29             | 100,000 145  | 93,200 130  | 68,400 98   |   |   |   |   |
| 444    | 6750             | 7.86             | 107,000 170  | 101,000 160   | 83,000 125  |   |   |   |   |
| 460    | 7000             | 8.45             | 114,000 195  | 109,000 185   | 94,200 155  | 65,400 110  |   |   |   |
| 494    | 7500             | 9.71             | 126,000 250  | 122,000 240   | 112,000 215   | 96,000 175  |   |   |   |
| 526    | 8000             | 11.04            | 137,000 315  | 134,000 305   | 125,000 280   | 115,000 250   | 98,900 210  |   |   |
| 560    | 8500             | 12.48            | 148,000 385  | 146,000 308   | 139,000 355   | 131,000 325   | 120,000 290   | 103,000 250   |   |
| 592    | 9000             | 14.00            | 159,000 465  | 157,000 455   | 151,000 435   | 144,000 410   | 136,000 380   | 125,000 335   | 109,000 295   |
| 625    | 9500             | 15.58            | 169,000 555  | 168,000 545   | 163,000 525   | 157,000 500   | 150,000 470   | 142,000 435   | 131,000 395   |
| 659    | 10000            | 17.27            | 180,000 650  | 178,000 645   | 174,000 630   | 169,000 605   | 163,000 575   | 157,000 545   | 148,000 505   |



Single Inlet

## Size "N" Supervane Fan—Design 1

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.<br>Static Pressure<br>1/8" Water<br>.0722 ozs. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure<br>1/4" Water<br>.145 ozs. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure<br>3/8" Water<br>.217 ozs. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure<br>1/2" Water<br>.289 ozs. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure<br>5/8" Water<br>.361 ozs. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure<br>3/4" Water<br>.434 ozs. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure<br>7/8" Water<br>.506 ozs. per sq. inch | H. P. |
|--------|------------------|------------------|---|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|
| 60     | 1010             | 1.76             | 11,500  | 0.40  |  |       |  |       |  |       |  |       |  |       |  |       |
| 72     | 1200             | 2.19             | 22,000  | 1.10  |  |       |  |       |  |       |  |       |  |       |  |       |
| 84     | 1400             | 2.58             | 28,300  | 1.95  |  |       |  |       |  |       |  |       |  |       |  |       |
| 95     | 1600             | 2.91             | 33,400  | 3.1   | 27,300   | 2.35  |  |       |  |       |  |       |  |       |  |       |
| 107    | 1800             | 3.25             | 39,000  | 4.6   | 34,700   | 3.9   | 24,500   | 2.65  |  |       |  |       |  |       |  |       |
| 119    | 2000             | 3.60             | 43,600  | 6.3   | 40,000   | 5.8   | 35,100   | 4.7   |  |       |  |       |  |       |  |       |
| 131    | 2200             | 3.95             | 49,000  | 8.6   | 46,200   | 8.1   | 42,400   | 7.1   | 35,600   | 5.7   |  |       |  |       |  |       |
| 143    | 2400             | 4.31             |   |       | 51,500   | 10.5  | 48,400   | 9.9   | 44,100   | 8.7   | 35,600   | 6.9   |  |       |  |       |
| 155    | 2600             | 4.67             |   |       | 57,000   | 14.0  | 54,100   | 13.0  | 50,700   | 12.0  | 46,000   | 10.5  | 38,200   | 8.7   |  |       |
| 167    | 2800             | 5.05             |   |       | 61,600   | 17.5  | 59,000   | 16.5  | 56,800   | 15.5  | 53,300   | 14.5  | 48,500   | 12.5  | 40,700   | 10.7  |
| 179    | 3000             | 5.43             |   |       | 66,500   | 22    | 64,500   | 21    | 62,400   | 20    | 59,600   | 19    | 56,000   | 17.5  | 51,300   | 15.1  |
| 191    | 3200             | 5.81             |   |       | 71,200   | 26    | 69,000   | 26    | 67,700   | 25    | 65,400   | 24    | 62,600   | 22.5  | 59,100   | 21    |
| 203    | 3400             | 6.20             |   |       |  |       | 74,600   | 31    | 73,000   | 31    | 71,000   | 30    | 68,600   | 28    | 66,100   | 27    |
| 215    | 3600             | 6.60             |   |       |  |       | 79,700   | 37    | 77,900   | 37    | 76,300   | 36    | 74,400   | 35    | 72,000   | 33    |
| 227    | 3800             | 7.00             |   |       |  |       | 81,100   | 44    | 83,000   | 43    | 81,400   | 43    | 79,700   | 41    | 77,800   | 40    |
| 239    | 4000             | 7.40             |   |       |  |       |  |       | 88,000   | 52    | 86,500   | 50    | 85,000   | 49    | 83,400   | 48    |
| 251    | 4200             | 7.81             |   |       |  |       |  |       | 92,900   | 60    | 91,600   | 58    | 90,300   | 58    | 88,900   | 56    |
| 263    | 4400             | 8.22             |   |       |  |       |  |       | 97,900   | 68    | 96,600   | 68    | 95,400   | 66    | 94,000   | 66    |
| 274    | 4600             | 8.64             |   |       |  |       |  |       |  |       | 102,000  | 78    | 100,000  | 76    | 99,100   | 76    |
| 286    | 4800             | 9.06             |   |       |  |       |  |       |  |       | 106,000  | 88    | 105,000  | 88    | 104,000  | 86    |
| 298    | 5000             | 9.48             |   |       |  |       |  |       |  |       | 111,000  | 100   | 110,000  | 100   | 109,000  | 98    |
| 313    | 5250             | 10.0             |   |       |  |       |  |       |  |       |  |       | 116,000  | 115   | 115,000  | 115   |
| 328    | 5500             | 10.5             |   |       |  |       |  |       |  |       |  |       | 122,000  | 135   | 121,000  | 135   |
| 343    | 5750             | 11.0             |   |       |  |       |  |       |  |       |  |       |  |       | 128,000  | 155   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 ozs. per sq. inch                           | H. P. | Static Pressure 1 1/4" Water .723 ozs. per sq. inch                      | H. P. | Static Pressure 1 1/2" Water .878 ozs. per sq. inch                      | H. P. | Static Pressure 1 3/4" Water 1.01 ozs. per sq. inch                      | H. P. | Static Pressure 2" Water 1.16 ozs. per sq. inch                          | H. P. | Static Pressure 2 1/4" Water 1.45 ozs. per sq. inch                      | H. P. | Static Pressure 2 1/2" Water 1.73 ozs. per sq. inch                      | H. P. |
| 179    | 3000             | 5.43             | 44,000  | 13.5  |  |       |  |       |  |       |  |       |  |       |  |       |
| 191    | 3200             | 5.81             | 54,700  | 18.5  | 36,900   | 13    |  |       |  |       |  |       |  |       |  |       |
| 203    | 3400             | 6.20             | 62,500  | 25    | 52,100   | 20    |  |       |  |       |  |       |  |       |  |       |
| 215    | 3600             | 6.60             | 69,500  | 31    | 61,800   | 27    | 58,900   | 21.5  |  |       |  |       |  |       |  |       |
| 227    | 3800             | 7.00             | 75,500  | 38    | 69,900   | 35    | 61,200   | 30    | 45,000   | 22    |  |       |  |       |  |       |
| 239    | 4000             | 7.40             | 81,400  | 46    | 76,700   | 43    | 70,800   | 38    | 60,100   | 32    |  |       |  |       |  |       |
| 251    | 4200             | 7.81             | 87,000  | 54    | 83,000   | 52    | 73,500   | 47    | 70,500   | 41    | 59,400   | 35    |  |       |  |       |
| 263    | 4400             | 8.22             | 92,600  | 64    | 89,000   | 62    | 84,800   | 58    | 79,000   | 52    | 71,200   | 46    |  |       |  |       |
| 274    | 4600             | 8.64             | 97,900  | 74    | 94,600   | 72    | 91,000   | 68    | 86,500   | 64    | 80,500   | 58    | 59,300   | 42    |  |       |
| 286    | 4800             | 9.06             | 103,000   | 86    | 100,000  | 82    | 96,600   | 78    | 93,000   | 74    | 88,000   | 70    | 73,000   | 56    |  |       |
| 298    | 5000             | 9.48             | 108,000   | 98    | 106,000  | 96    | 103,000  | 92    | 99,200   | 88    | 95,300   | 82    | 83,500   | 70    | 61,500   | 52    |
| 313    | 5250             | 10.0             | 114,000   | 115   | 112,000  | 115   | 109,000  | 110   | 107,000  | 105   | 103,000  | 100   | 94,100   | 88    | 79,500   | 74    |
| 328    | 5500             | 10.5             | 120,000   | 130   | 118,000  | 130   | 116,000  | 125   | 114,000  | 125   | 111,000  | 120   | 103,000  | 105   | 92,500   | 94    |
| 343    | 5750             | 11.0             | 127,000   | 150   | 125,000  | 150   | 123,000  | 145   | 120,000  | 145   | 118,000  | 140   | 112,000  | 130   | 103,000  | 115   |
| 358    | 6000             | 11.6             | 133,000   | 170   | 131,000  | 170   | 129,000  | 170   | 127,000  | 165   | 125,000  | 160   | 119,000  | 150   | 112,000  | 140   |
| 373    | 6250             | 12.2             | 139,000   | 195   | 137,000  | 195   | 135,000  | 190   | 134,000  | 190   | 132,000  | 185   | 127,000  | 175   | 121,000  | 165   |
| 388    | 6500             | 12.8             |   |       | 143,000  | 220   | 142,000  | 220   | 140,000  | 215   | 138,000  | 210   | 134,000  | 200   | 128,000  | 190   |
| 403    | 6750             | 13.4             |   |       | 150,000  | 245   | 148,000  | 245   | 146,000  | 240   | 145,000  | 240   | 141,000  | 230   | 136,000  | 220   |
| 418    | 7000             | 14.0             |   |       | 155,000  | 275   | 154,000  | 275   | 153,000  | 270   | 151,000  | 270   | 147,000  | 260   | 143,000  | 250   |
| 448    | 7500             | 15.0             |   |       |  |       | 166,000  | 340   | 165,000  | 335   | 164,000  | 330   | 161,000  | 330   | 157,000  | 320   |
| 477    | 8000             | 16.0             |   |       |  |       |  |       | 177,000  | 410   | 176,000  | 405   | 174,000  | 400   | 170,000  | 395   |
| 507    | 8500             | 17.0             |   |       |  |       |  |       | 190,000  | 495   | 188,000  | 490   | 186,000  | 490   | 183,000  | 480   |
| 536    | 9000             | 18.0             |   |       |  |       |  |       |  |       | 200,000  | 595   | 198,000  | 580   | 196,000  | 575   |
| 567    | 9500             | 19.0             |   |       |  |       |  |       |  |       |  |       | 211,000  | 690   | 208,000  | 680   |
| 596    | 10000            | 20.0             |   |       |  |       |  |       |  |       |  |       | 222,000  | 805   | 220,000  | 795   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 3 1/4" Water 2.02 ozs. per sq. inch                       | H. P. | Static Pressure 4" Water 2.31 ozs. per sq. inch                          | H. P. | Static Pressure 5" Water 2.89 ozs. per sq. inch                          | H. P. | Static Pressure 6" Water 3.47 ozs. per sq. inch                          | H. P. | Static Pressure 7" Water 4.05 ozs. per sq. inch                          | H. P. | Static Pressure 8" Water 4.63 ozs. per sq. inch                          | H. P. | Static Pressure 9" Water 5.2 ozs. per sq. inch                           | H. P. |
| 328    | 5500             | 10.5             | 74,800  | 76    |  |       |  |       |  |       |  |       |  |       |  |       |
| 343    | 5750             | 11.0             | 90,500  | 105   | 60,200   | 78    |  |       |  |       |  |       |  |       |  |       |
| 358    | 6000             | 11.6             | 103,000   | 125   | 88,100   | 105   |  |       |  |       |  |       |  |       |  |       |
| 373    | 6250             | 12.2             | 113,000   | 150   | 102,000  | 135   |  |       |  |       |  |       |  |       |  |       |
| 388    | 6500             | 12.8             | 122,000   | 180   | 113,000  | 160   | 83,200   | 120   |  |       |  |       |  |       |  |       |
| 403    | 6750             | 13.4             | 130,000   | 205   | 123,000  | 190   | 101,000  | 155   |  |       |  |       |  |       |  |       |
| 418    | 7000             | 14.0             | 138,000   | 240   | 132,000  | 225   | 115,000  | 185   | 79,400   | 130   |  |       |  |       |  |       |
| 448    | 7500             | 15.0             | 153,000   | 305   | 148,000  | 285   | 136,000  | 260   | 117,000  | 210   |  |       |  |       |  |       |
| 477    | 8000             | 16.0             | 167,000   | 385   | 163,000  | 370   | 153,000  | 340   | 140,000  | 300   | 120,000  | 260   |  |       |  |       |
| 507    | 8500             | 17.0             | 180,000   | 470   | 177,000  | 460   | 169,000  | 430   | 159,000  | 400   | 145,000  | 350   | 125,000  | 305   |  |       |
| 536    | 9000             | 18.0             | 193,000   | 565   | 191,000  | 555   | 184,000  | 530   | 175,000  | 500   | 166,000  | 460   | 152,000  | 410   | 133,000  | 360   |
| 567    | 9500             | 19.0             | 206,000   | 675   | 204,000  | 665   | 198,000  | 640   | 191,000  | 610   | 183,000  | 575   | 172,000  | 530   | 159,000  | 480   |
| 596    | 10000            | 20.0             | 218,000   | 790   | 217,000  | 785   | 211,000  | 765   | 205,000  | 735   | 199,000  | 700   | 191,000  | 660   | 180,000  | 615   |

**Single Inlet      Size "M" Supervane Fan—Design 1      Single Width**  
**When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances**

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M. H. P. Static Pressure 1/2" Water .0722 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 3/4" Water .145 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1" Water .217 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1 1/4" Water .289 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1 1/2" Water .361 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1 3/4" Water .434 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 2" Water .506 ozs. per sq. inch |
|--------|------------------|------------------|--|---|---|---|---|---|---|
| 66     | 1010             | 1.76             | 9,430 .325   |   |   |   |   |   |   |
| 79     | 1200             | .249             | 18,000 .89   |   |   |   |   |   |   |
| 92     | 1400             | .338             | 23,300 1.60  |   |   |   |   |   |   |
| 105    | 1600             | .441             | 27,500 2.55  | 24,500 1.95   |   |   |   |   |   |
| 118    | 1800             | .559             | 32,100 3.75  | 28,600 3.20   | 20,100 2.2  |   |   |   |   |
| 132    | 2000             | .690             | 35,900 5.2   | 33,500 4.75   | 28,800 3.9  |   |   |   |   |
| 145    | 2200             | .835             | 40,300 7.  | 38,000 6.6  | 34,000 5.9  | 29,300 4.65   |   |   |   |
| 158    | 2400             | .964             |  | 42,400 8.8  | 39,800 8.2  | 36,200 7.2  | 29,300 5.7  |   |   |
| 171    | 2600             | 1.17             |  | 46,900 11.5   | 44,500 11.0   | 41,700 9.9  | 37,900 8.6  | 31,500 7.1  |   |
| 184    | 2800             | 1.35             |  | 50,600 14.5   | 48,500 13.5   | 46,600 13.0   | 43,800 12.0   | 39,900 10.5   | 33,500 8.8  |
| 197    | 3000             | 1.55             |  | 54,700 18.0   | 53,100 17.5   | 51,300 16.5   | 49,000 15.5   | 46,100 14.5   | 42,200 12.5   |
| 210    | 3200             | 1.77             |  | 58,600 21.5   | 57,300 21.5   | 55,600 20.5   | 53,800 19.5   | 51,500 18.5   | 48,600 17.  |
| 224    | 3400             | 2.00             |  |   | 61,300 26   | 60,000 25   | 58,400 24.5   | 56,400 23   | 54,400 22   |
| 237    | 3600             | 2.24             |  |   | 65,500 31   | 64,100 30   | 62,800 29   | 61,200 28   | 59,200 27   |
| 250    | 3800             | 2.49             |  |   | 69,400 36   | 68,300 36   | 67,000 35   | 65,500 34   | 63,900 33   |
| 263    | 4000             | 2.76             |  |   |   | 72,400 42   | 71,200 41   | 69,900 40   | 68,500 39   |
| 276    | 4200             | 3.01             |  |   |   | 76,400 49   | 75,400 48   | 74,200 47   | 73,000 47   |
| 290    | 4400             | 3.31             |  |   |   | 80,500 56   | 79,500 56   | 78,400 54   | 77,300 54   |
| 303    | 4600             | 3.65             |  |   |   |   | 83,500 64   | 82,500 64   | 81,500 62   |
| 316    | 4800             | 3.98             |  |   |   |   | 87,400 72   | 86,500 72   | 85,700 72   |
| 329    | 5000             | 4.31             |  |   |   |   | 91,500 82   | 90,800 82   | 89,800 82   |
| 345    | 5250             | 4.76             |  |   |   |   |   | 95,600 96   | 94,900 96   |
| 362    | 5500             | 5.22             |  |   |   |   |   | 101,000 110   | 99,000 110  |
| 378    | 5750             | 5.71             |  |   |   |   |   |   | 105,000 125   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 ozs. per sq. inch                        | Static Pressure 1 1/4" Water .723 ozs. per sq. inch                   | Static Pressure 1 1/2" Water .878 ozs. per sq. inch                 | Static Pressure 1 3/4" Water 1.01 ozs. per sq. inch                     | Static Pressure 2" Water 1.16 ozs. per sq. inch                         | Static Pressure 2 1/4" Water 1.43 ozs. per sq. inch                     | Static Pressure 2 1/2" Water 1.73 ozs. per sq. inch                 |
| 197    | 3000             | 1.55             | 36,200 11.0  |   |   |   |   |   |   |
| 210    | 3200             | 1.77             | 45,000 15.5  | 30,300 10.5   |   |   |   |   |   |
| 224    | 3400             | 2.00             | 51,500 20.5  | 42,900 16.5   |   |   |   |   |   |
| 237    | 3600             | 2.24             | 57,100 26  | 50,800 22   | 40,200 17.5   |   |   |   |   |
| 250    | 3800             | 2.49             | 62,100 32  | 57,400 28   | 50,300 24.5   | 37,000 18   |   |   |   |
| 263    | 4000             | 2.76             | 67,000 38  | 63,100 35   | 58,300 31   | 49,400 26   |   |   |   |
| 276    | 4200             | 3.04             | 71,500 45  | 68,300 42   | 64,500 39   | 57,900 34   | 48,800 29   |   |   |
| 290    | 4400             | 3.34             | 76,200 54  | 73,300 50   | 69,800 47   | 64,900 43   | 58,500 38   |   |   |
| 303    | 4600             | 3.65             | 80,500 62  | 77,900 58   | 74,800 55   | 71,200 52   | 66,100 47   |   |   |
| 316    | 4800             | 3.98             | 84,900 70  | 82,300 68   | 79,500 64   | 76,500 62   | 72,600 58   | 48,800 35   |   |
| 329    | 5000             | 4.31             | 89,000 80  | 86,900 78   | 84,300 76   | 81,800 72   | 78,400 68   | 60,000 40   |   |
| 345    | 5250             | 4.76             | 94,000 94  | 92,200 94   | 90,000 88   | 87,700 86   | 84,900 82   | 80,600 58   | 50,600 43   |
| 362    | 5500             | 5.22             | 99,100 110   | 97,500 105  | 95,600 105  | 93,400 100  | 90,900 98   | 84,500 88   | 65,400 60   |
| 378    | 5750             | 5.71             | 104,000 125  | 103,000 125   | 101,000 120   | 99,000 120  | 97,000 115  | 91,900 105  | 76,000 76   |
| 395    | 6000             | 6.21             | 109,000 140  | 108,000 140   | 106,000 140   | 105,000 135   | 103,000 135   | 98,000 125  | 84,800 94   |
| 411    | 6250             | 6.74             | 114,000 160  | 113,000 160   | 111,000 160   | 110,000 155   | 108,000 150   | 104,000 145   | 92,300 115  |
| 428    | 6500             | 7.29             | 118,000 180  | 117,000 180   | 115,000 175   | 114,000 175   | 112,000 165   | 109,000 155   | 99,100 135  |
| 444    | 6750             | 7.86             | 123,000 205  | 122,000 200   | 120,000 200   | 119,000 195   | 118,000 190   | 116,000 180   | 108,000 155   |
| 460    | 7000             | 8.45             |  | 128,000 225   | 127,000 225   | 126,000 225   | 124,000 220   | 121,000 215   | 112,000 180   |
| 494    | 7500             | 9.71             |  |   | 137,000 280   | 136,000 275   | 135,000 275   | 132,000 270   | 117,000 205   |
| 526    | 8000             | 11.04            |  |   |   | 146,000 340   | 145,000 335   | 143,000 330   | 129,000 260   |
| 560    | 8500             | 12.48            |  |   |   | 156,000 405   | 155,000 405   | 153,000 400   | 140,000 325   |
| 592    | 9000             | 14.00            |  |   |   |   | 165,000 480   | 163,000 480   | 150,000 395   |
| 625    | 9500             | 15.58            |  |   |   |   |   | 173,000 565   | 161,000 470   |
| 659    | 10000            | 17.27            |  |   |   |   |   | 183,000 660   | 171,000 560   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 3 1/4" Water 2.02 ozs. per sq. inch                    | Static Pressure 4" Water 2.31 ozs. per sq. inch                       | Static Pressure 5" Water 2.89 ozs. per sq. inch                     | Static Pressure 6" Water 3.47 ozs. per sq. inch                         | Static Pressure 7" Water 4.05 ozs. per sq. inch                         | Static Pressure 8" Water 4.63 ozs. per sq. inch                         | Static Pressure 9" Water 5.2 ozs. per sq. inch                      |
| 362    | 5500             | 5.22             | 61,500 62  |   |   |   |   |   |   |
| 378    | 5750             | 5.71             | 74,400 82  | 57,000 64   |   |   |   |   |   |
| 395    | 6000             | 6.21             | 81,300 100   | 72,500 88   |   |   |   |   |   |
| 411    | 6250             | 6.74             | 92,800 125   | 84,000 110  |   |   |   |   |   |
| 428    | 6500             | 7.29             | 100,000 145  | 93,200 130  | 68,400 98   |   |   |   |   |
| 444    | 6750             | 7.86             | 107,000 170  | 101,000 160   | 83,000 125  |   |   |   |   |
| 460    | 7000             | 8.45             | 114,000 195  | 109,000 185   | 94,200 155  | 65,400 110  |   |   |   |
| 494    | 7500             | 9.71             | 126,000 250  | 122,000 240   | 112,000 215   | 96,000 175  |   |   |   |
| 526    | 8000             | 11.04            | 137,000 315  | 134,000 305   | 125,000 280   | 115,000 250   | 98,900 210  |   |   |
| 560    | 8500             | 12.48            | 148,000 385  | 146,000 308   | 139,000 355   | 131,000 325   | 120,000 290   | 103,000 250   |   |
| 592    | 9000             | 14.00            | 159,000 465  | 157,000 455   | 151,000 435   | 144,000 410   | 136,000 380   | 125,000 335   | 109,000 295   |
| 625    | 9500             | 15.58            | 169,000 555  | 168,000 545   | 163,000 525   | 157,000 500   | 150,000 470   | 142,000 435   | 131,000 395   |
| 659    | 10000            | 17.27            | 180,000 650  | 178,000 645   | 174,000 630   | 169,000 605   | 163,000 575   | 157,000 545   | 148,000 505   |

**Single Inlet      Size "Q" Supervane Fan—Design 1      Single Width**  
**When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances**

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M. H. P. Static Pressure 1/2" Water .0722 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 3/4" Water .145 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1" Water .217 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1 1/4" Water .269 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1 1/2" Water .361 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1 3/4" Water .434 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 2" Water .506 ozs. per sq. inch |
|--------|------------------|------------------|--|---|---|---|---|---|---|
| 51     | 1010             | 1.76             | 16,200 0.56  |   |   |   |   |   |   |
| 60     | 1200             | 2.19             | 31,100 1.55  |   |   |   |   |   |   |
| 70     | 1400             | 3.38             | 40,000 2.75  |   |   |   |   |   |   |
| 80     | 1600             | 4.41             | 47,200 4.4   | 38,600 3.3  |   |   |   |   |   |
| 90     | 1800             | 5.59             | 55,100 6.4   | 49,000 5.5  | 34,000 3.75   |   |   |   |   |
| 100    | 2000             | 6.90             | 61,700 8.9   | 57,500 8.2  | 49,500 6.7  |   |   |   |   |
| 111    | 2200             | 8.35             | 69,200 12  | 65,400 11.5   | 59,900 10.0   | 50,300 8.0  |   |   |   |
| 121    | 2400             | 9.94             |  | 72,800 15.0   | 68,400 14.0   | 62,300 12.5   | 50,300 9.7  |   |   |
| 131    | 2600             | 1.17             |  | 80,600 19.5   | 76,400 18.5   | 71,700 17   | 65,000 15.0   | 54,100 12.5   |   |
| 141    | 2800             | 1.35             |  | 87,000 24.5   | 83,400 23.5   | 80,200 22   | 75,400 20.5   | 68,600 18.0   | 57,500 15   |
| 151    | 3000             | 1.55             |  | 94,000 31   | 91,200 30   | 88,100 28   | 81,200 27   | 79,200 21.5   | 72,600 22   |
| 161    | 3200             | 1.77             |  | 101,000 37  | 98,400 37   | 95,600 35   | 92,500 34   | 88,500 32   | 83,600 29   |
| 171    | 3400             | 2.00             |  |   | 105,000 44  | 103,000 43  | 100,000 42  | 96,900 40   | 93,500 38   |
| 181    | 3600             | 2.24             |  |   | 113,000 52  | 110,000 52  | 108,000 50  | 105,000 49  | 102,000 47  |
| 191    | 3800             | 2.49             |  |   | 119,000 62  | 117,000 62  | 115,000 60  | 113,000 58  | 110,000 56  |
| 201    | 4000             | 2.76             |  |   |   | 124,000 72  | 122,000 70  | 120,000 70  | 118,000 68  |
| 211    | 4200             | 3.04             |  |   |   | 131,000 84  | 130,000 82  | 128,000 82  | 125,000 80  |
| 221    | 4400             | 3.34             |  |   |   | 138,000 96  | 137,000 96  | 135,000 94  | 133,000 94  |
| 231    | 4600             | 3.65             |  |   |   |   | 144,000 110   | 142,000 110   | 140,000 110   |
| 241    | 4800             | 3.98             |  |   |   |   | 150,000 125   | 149,000 125   | 147,000 125   |
| 251    | 5000             | 4.31             |  |   |   |   | 157,000 140   | 156,000 140   | 154,000 140   |
| 264    | 5250             | 4.76             |  |   |   |   |   | 164,000 165   | 163,000 165   |
| 276    | 5500             | 5.22             |  |   |   |   |   | 173,000 190   | 172,000 190   |
| 289    | 5750             | 5.71             |  |   |   |   |   |   | 180,000 215   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 ozs. per sq. inch                        | Static Pressure 1 1/4" Water .723 ozs. per sq. inch                   | Static Pressure 1 1/2" Water .878 ozs. per sq. inch                 | Static Pressure 1 3/4" Water 1.01 ozs. per sq. inch                     | Static Pressure 2" Water 1.16 ozs. per sq. inch                         | Static Pressure 2 1/2" Water 1.45 ozs. per sq. inch                     | Static Pressure 3" Water 1.73 ozs. per sq. inch                     |
| 151    | 3000             | 1.55             | 62,200 19  |   |   |   |   |   |   |
| 161    | 3200             | 1.77             | 77,300 26  | 52,100 18   |   |   |   |   |   |
| 171    | 3400             | 2.00             | 88,400 35  | 73,600 29   |   |   |   |   |   |
| 181    | 3600             | 2.24             | 98,100 44  | 87,300 38   | 69,100 30   |   |   |   |   |
| 191    | 3800             | 2.49             | 107,000 54   | 98,600 49   | 86,500 42   | 63,500 31   |   |   |   |
| 201    | 4000             | 2.76             | 115,000 66   | 108,000 60  | 100,000 54  | 84,900 45   |   |   |   |
| 211    | 4200             | 3.04             | 123,000 78   | 117,000 72  | 111,000 66  | 99,500 58   | 84,000 50   |   |   |
| 221    | 4400             | 3.34             | 131,000 92   | 126,000 86  | 120,000 80  | 112,000 74  | 101,000 66  |   |   |
| 231    | 4600             | 3.65             | 138,000 105  | 134,000 100   | 128,000 96  | 122,000 90  | 114,000 80  | 83,800 60   |   |
| 241    | 4800             | 3.98             | 146,000 120  | 141,000 115   | 137,000 110   | 131,000 105   | 124,000 98  | 103,000 80  |   |
| 251    | 5000             | 4.31             | 153,000 140  | 149,000 135   | 145,000 130   | 140,000 125   | 135,000 115   | 118,000 98  | 86,900 74   |
| 264    | 5250             | 4.76             | 162,000 160  | 158,000 160   | 155,000 155   | 151,000 150   | 146,000 140   | 133,000 125   | 112,000 105   |
| 276    | 5500             | 5.22             | 170,000 185  | 167,000 185   | 164,000 180   | 160,000 175   | 156,000 170   | 145,000 150   | 131,000 130   |
| 289    | 5750             | 5.71             | 179,000 215  | 176,000 210   | 174,000 210   | 170,000 205   | 167,000 195   | 158,000 185   | 146,000 165   |
| 302    | 6000             | 6.21             | 188,000 245  | 185,000 240   | 183,000 240   | 180,000 235   | 176,000 230   | 169,000 215   | 159,000 195   |
| 314    | 6250             | 6.74             | 196,000 275  | 194,000 275   | 192,000 270   | 189,000 270   | 186,000 260   | 179,000 250   | 170,000 230   |
| 327    | 6500             | 7.29             |  | 202,000 310   | 200,000 305   | 198,000 305   | 195,000 300   | 189,000 285   | 181,000 270   |
| 339    | 6750             | 7.86             |  | 211,000 350   | 209,000 345   | 207,000 340   | 204,000 335   | 199,000 325   | 192,000 310   |
| 352    | 7000             | 8.45             |  | 220,000 390   | 218,000 385   | 216,000 385   | 214,000 380   | 208,000 365   | 202,000 355   |
| 377    | 7500             | 9.71             |  |   | 235,000 480   | 233,000 475   | 231,000 470   | 227,000 465   | 222,000 450   |
| 402    | 8000             | 11.04            |  |   |   | 250,000 580   | 248,000 575   | 245,000 570   | 241,000 555   |
| 427    | 8500             | 12.48            |  |   |   | 268,000 700   | 266,000 695   | 263,000 690   | 258,000 680   |
| 452    | 9000             | 14.00            |  |   |   |   | 283,000 830   | 280,000 825   | 277,000 810   |
| 478    | 9500             | 15.58            |  |   |   |   |   | 298,000 970   | 294,000 960   |
| 503    | 10000            | 17.27            |  |   |   |   |   | 314,000 1140  | 312,000 1125  |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 3 1/4" Water 2.02 ozs. per sq. inch                    | Static Pressure 4" Water 2.31 ozs. per sq. inch                       | Static Pressure 5" Water 2.89 ozs. per sq. inch                     | Static Pressure 6" Water 3.47 ozs. per sq. inch                         | Static Pressure 7" Water 4.05 ozs. per sq. inch                         | Static Pressure 8" Water 4.63 ozs. per sq. inch                         | Static Pressure 9" Water 5.2 ozs. per sq. inch                      |
| 276    | 5500             | 5.22             | 106,000 110  |   |   |   |   |   |   |
| 289    | 5750             | 5.71             | 128,000 140  | 97,800 110  |   |   |   |   |   |
| 302    | 6000             | 6.21             | 145,000 175  | 124,000 150   |   |   |   |   |   |
| 314    | 6250             | 6.74             | 160,000 210  | 144,000 190   |   |   |   |   |   |
| 327    | 6500             | 7.29             | 172,000 250  | 160,000 225   | 118,000 165   |   |   |   |   |
| 339    | 6750             | 7.86             | 184,000 290  | 174,000 270   | 143,000 220   |   |   |   |   |
| 352    | 7000             | 8.45             | 195,000 335  | 187,000 315   | 162,000 265   | 112,000 185   |   |   |   |
| 377    | 7500             | 9.71             | 216,000 435  | 210,000 415   | 192,000 370   | 165,000 300   |   |   |   |
| 402    | 8000             | 11.04            | 236,000 540  | 230,000 525   | 216,000 485   | 198,000 425   | 170,000 365   |   |   |
| 427    | 8500             | 12.48            | 255,000 665  | 250,000 650   | 239,000 610   | 225,000 560   | 205,000 495   | 177,000 430   |   |
| 452    | 9000             | 14.00            | 272,000 800  | 269,000 785   | 259,000 750   | 247,000 705   | 234,000 655   | 214,000 580   | 187,000 510   |
| 478    | 9500             | 15.58            | 291,000 950  | 288,000 940   | 280,000 905   | 269,000 860   | 258,000 810   | 243,000 745   | 225,000 680   |
| 503    | 10000            | 17.27            | 308,000 1120   | 306,000 1110  | 298,000 1080  | 290,000 1040  | 280,000 990   | 269,000 935   | 254,000 865   |

Single Inlet

## Size "R" Supervane Fan—Design 1

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.                                       | H. P.   | Volume C.F.M.                                       | H. P.   | Volume C.F.M.                                       | H. P.   | Volume C.F.M.                                       | H. P. | Volume C.F.M. | H. P. | Volume C.F.M. | H. P. | Volume C.F.M. | H. P. |
|--------|------------------|------------------|---|---|---|---|---|---|---|-------|---------------|-------|---------------|-------|---------------|-------|
|        |                  |                  | Static Pressure 1/4" Water .0722 ozs. per sq. inch  | Static Pressure 1/4" Water .145 ozs. per sq. inch   | Static Pressure 3/4" Water .217 ozs. per sq. inch   | Static Pressure 1 1/4" Water .289 ozs. per sq. inch | Static Pressure 1 1/2" Water .361 ozs. per sq. inch | Static Pressure 1 3/4" Water .434 ozs. per sq. inch | Static Pressure 2" Water .506 ozs. per sq. inch     |       |               |       |               |       |               |       |
| 46     | 1010             | 1.70             | 19,800  | 08  |   |   |   |   |   |       |               |       |               |       |               |       |
| 55     | 1200             | 2.49             | 37,900  | 1.85  |   |   |   |   |   |       |               |       |               |       |               |       |
| 64     | 1400             | 3.38             | 48,800  | 3.35  |   |   |   |   |   |       |               |       |               |       |               |       |
| 73     | 1600             | 4.41             | 57,600  | 5.3   | 47,000  | 4.0   |   |   |   |       |               |       |               |       |               |       |
| 82     | 1800             | 5.59             | 67,200  | 7.9   | 59,700  | 6.7   | 42,100  | 4.6   |   |       |               |       |               |       |               |       |
| 91     | 2000             | 6.90             | 75,300  | 11.0  | 70,100  | 10.0  | 60,400  | 8.1   |   |       |               |       |               |       |               |       |
| 100    | 2200             | 8.35             | 84,400  | 11.5  | 79,600  | 14.0  | 73,000  | 12.5  | 61,400  | 9.8   |               |       |               |       |               |       |
| 109    | 2400             | 9.94             |   |   | 88,800  | 18.5  | 83,400  | 17.0  | 75,900  | 15.0  | 61,400        | 12    |               |       |               |       |
| 118    | 2600             | 1.17             |   |   | 98,300  | 24  | 93,200  | 22.5  | 87,400  | 20.5  | 79,400        | 18    | 66,000        | 15    |               |       |
| 127    | 2800             | 1.35             |   |   | 106,000   | 30  | 102,000   | 29  | 97,800  | 27    | 91,900        | 25    | 83,600        | 22    | 70,100        | 18.5  |
| 136    | 3000             | 1.55             |   |   | 115,000   | 37  | 111,000   | 36  | 107,000   | 35    | 103,000       | 33    | 96,500        | 30    | 88,500        | 27    |
| 145    | 3200             | 1.77             |   |   | 123,000   | 45  | 120,000   | 45  | 117,000   | 43    | 113,000       | 41    | 108,000       | 39    | 102,000       | 36    |
| 155    | 3400             | 2.00             |   |   |   |   | 128,000   | 54  | 126,000   | 52    | 122,000       | 50    | 118,000       | 49    | 114,000       | 46    |
| 164    | 3600             | 2.24             |   |   |   |   | 137,000   | 64  | 134,000   | 64    | 132,000       | 62    | 128,000       | 60    | 124,000       | 56    |
| 173    | 3800             | 2.49             |   |   |   |   | 145,000   | 76  | 143,000   | 74    | 140,000       | 74    | 137,000       | 72    | 134,000       | 70    |
| 182    | 4000             | 2.76             |   |   |   |   |   |   | 152,000   | 88    | 149,000       | 86    | 147,000       | 84    | 144,000       | 82    |
| 191    | 4200             | 3.04             |   |   |   |   |   |   | 160,000   | 100   | 158,000       | 100   | 156,000       | 100   | 153,000       | 98    |
| 200    | 4400             | 3.34             |   |   |   |   |   |   | 169,000   | 120   | 167,000       | 115   | 164,000       | 115   | 162,000       | 115   |
| 209    | 4600             | 3.65             |   |   |   |   |   |   |   |       | 175,000       | 135   | 173,000       | 130   | 171,000       | 130   |
| 218    | 4800             | 3.98             |   |   |   |   |   |   |   |       | 183,000       | 155   | 181,000       | 150   | 180,000       | 150   |
| 228    | 5000             | 4.31             |   |   |   |   |   |   |   |       | 192,000       | 175   | 190,000       | 170   | 188,000       | 170   |
| 239    | 5250             | 4.76             |   |   |   |   |   |   |   |       |               |       | 200,000       | 200   | 199,000       | 200   |
| 250    | 5500             | 5.22             |   |   |   |   |   |   |   |       |               |       | 211,000       | 230   | 209,000       | 230   |
| 262    | 5750             | 5.71             |   |   |   |   |   |   |   |       |               |       |               |       | 220,000       | 265   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 ozs. per sq. inch     | Static Pressure 1 1/4" Water .723 ozs. per sq. inch | Static Pressure 1 1/2" Water .878 ozs. per sq. inch | Static Pressure 1 3/4" Water 1.01 ozs. per sq. inch | Static Pressure 2" Water 1.16 ozs. per sq. inch     | Static Pressure 2 1/4" Water 1.45 ozs. per sq. inch | Static Pressure 2 1/2" Water 1.73 ozs. per sq. inch |       |               |       |               |       |               |       |
| 136    | 3000             | 1.55             | 76,000  | 23  |   |   |   |   |   |       |               |       |               |       |               |       |
| 145    | 3200             | 1.77             | 91,200  | 32  | 63,500  | 22  |   |   |   |       |               |       |               |       |               |       |
| 155    | 3400             | 2.00             | 108,000   | 43  | 89,800  | 35  |   |   |   |       |               |       |               |       |               |       |
| 164    | 3600             | 2.24             | 120,000   | 54  | 106,000   | 46  | 84,200  |   |   |       |               |       |               |       |               |       |
| 173    | 3800             | 2.49             | 130,000   | 66  | 120,000   | 60  | 105,000   | 50  | 77,500  | 38    |               |       |               |       |               |       |
| 182    | 4000             | 2.76             | 140,000   | 80  | 132,000   | 74  | 122,000   | 66  | 104,000   | 56    |               |       |               |       |               |       |
| 191    | 4200             | 3.04             | 150,000   | 94  | 143,000   | 88  | 135,000   | 82  | 121,000   | 72    | 102,000       | 60    |               |       |               |       |
| 200    | 4400             | 3.34             | 160,000   | 110   | 154,000   | 105   | 146,000   | 98  | 126,000   | 80    | 123,000       | 80    |               |       |               |       |
| 209    | 4600             | 3.65             | 169,000   | 130   | 163,000   | 125   | 157,000   | 115   | 140,000   | 110   | 139,000       | 98    | 102,000       |       |               |       |
| 218    | 4800             | 3.98             | 178,000   | 150   | 173,000   | 140   | 167,000   | 135   | 150,000   | 130   | 152,000       | 120   | 126,000       | 96    |               |       |
| 228    | 5000             | 4.31             | 186,000   | 170   | 182,000   | 165   | 177,000   | 160   | 171,000   | 150   | 164,000       | 140   | 144,000       | 120   | 106,000       | 90    |
| 239    | 5250             | 4.76             | 197,000   | 195   | 198,000   | 195   | 189,000   | 185   | 184,000   | 180   | 178,000       | 170   | 162,000       | 150   | 137,000       | 125   |
| 250    | 5500             | 5.22             | 208,000   | 225   | 204,000   | 225   | 200,000   | 220   | 196,000   | 210   | 191,000       | 205   | 177,000       | 185   | 159,000       | 160   |
| 262    | 5750             | 5.71             | 218,000   | 260   | 215,000   | 260   | 212,000   | 255   | 208,000   | 245   | 203,000       | 240   | 193,000       | 225   | 178,000       | 200   |
| 272    | 6000             | 6.21             | 229,000   | 295   | 226,000   | 295   | 223,000   | 290   | 219,000   | 285   | 215,000       | 280   | 206,000       | 260   | 194,000       | 240   |
| 284    | 6250             | 6.74             | 239,000   | 340   | 237,000   | 335   | 234,000   | 330   | 230,000   | 325   | 227,000       | 320   | 218,000       | 305   | 208,000       | 280   |
| 296    | 6500             | 7.20             |   |   | 247,000   | 380   | 244,000   | 375   | 241,000   | 370   | 238,000       | 365   | 230,000       | 345   | 221,000       | 330   |
| 307    | 6750             | 7.86             |   |   | 258,000   | 425   | 255,000   | 420   | 252,000   | 415   | 249,000       | 410   | 242,000       | 395   | 234,000       | 380   |
| 318    | 7000             | 8.45             |   |   | 268,000   | 475   | 266,000   | 470   | 263,000   | 465   | 261,000       | 460   | 254,000       | 445   | 246,000       | 430   |
| 341    | 7500             | 9.71             |   |   |   |   | 286,000   | 585   | 284,000   | 580   | 282,000       | 575   | 277,000       | 565   | 270,000       | 550   |
| 364    | 8000             | 11.04            |   |   |   |   | 306,000   | 710   | 304,000   | 705   | 303,000       | 700   | 299,000       | 695   | 294,000       | 680   |
| 386    | 8500             | 12.48            |   |   |   |   | 326,000   | 850   | 324,000   | 845   | 324,000       | 845   | 320,000       | 840   | 315,000       | 825   |
| 409    | 9000             | 14.00            |   |   |   |   |   |   | 345,000   | 1010  |               |       | 342,000       | 1000  | 338,000       | 990   |
| 432    | 9500             | 15.58            |   |   |   |   |   |   |   |       |               |       | 363,000       | 1190  | 359,000       | 1170  |
| 455    | 10000            | 17.27            |   |   |   |   |   |   |   |       |               |       | 383,000       | 1390  | 380,000       | 1370  |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 3 1/4" Water 2.62 ozs. per sq. inch | Static Pressure 4" Water 2.31 ozs. per sq. inch     | Static Pressure 5" Water 2.59 ozs. per sq. inch     | Static Pressure 6" Water 3.47 ozs. per sq. inch     | Static Pressure 7" Water 4.05 ozs. per sq. inch     | Static Pressure 8" Water 4.63 ozs. per sq. inch     | Static Pressure 9" Water 5.2 ozs. per sq. inch      |       |               |       |               |       |               |       |
| 250    | 5500             | 5.22             | 129,000   | 130   |   |   |   |   |   |       |               |       |               |       |               |       |
| 262    | 5750             | 5.71             | 156,000   | 170   | 119,000   | 135   |   |   |   |       |               |       |               |       |               |       |
| 272    | 6000             | 6.21             | 177,000   | 215   | 152,000   | 185   |   |   |   |       |               |       |               |       |               |       |
| 284    | 6250             | 6.74             | 194,000   | 260   | 176,000   | 230   |   |   |   |       |               |       |               |       |               |       |
| 296    | 6500             | 7.29             | 210,000   | 305   | 195,000   | 275   | 143,000   | 205   |   |       |               |       |               |       |               |       |
| 307    | 6750             | 7.86             | 224,000   | 355   | 212,000   | 330   | 174,000   | 265   |   |       |               |       |               |       |               |       |
| 318    | 7000             | 8.45             | 238,000   | 410   | 228,000   | 385   | 197,000   | 320   | 137,000   | 230   |               |       |               |       |               |       |
| 341    | 7500             | 9.71             | 263,000   | 530   | 256,000   | 505   | 234,000   | 450   | 201,000   | 365   |               |       |               |       |               |       |
| 364    | 8000             | 11.04            | 287,000   | 660   | 280,000   | 640   | 264,000   | 590   | 242,000   | 520   |               |       |               |       |               |       |
| 386    | 8500             | 12.48            | 310,000   | 810   | 305,000   | 790   | 291,000   | 740   | 274,000   | 685   | 207,000       | 445   | 250,000       | 605   | 216,000       | 525   |
| 409    | 9000             | 14.00            | 332,000   | 975   | 328,000   | 955   | 316,000   | 915   | 302,000   | 855   | 286,000       | 795   | 281,000       | 705   | 228,000       | 620   |
| 432    | 9500             | 15.58            | 355,000   | 1160  | 351,000   | 1150  | 341,000   | 1110  | 328,000   | 1050  | 315,000       | 990   | 297,000       | 910   | 274,000       | 825   |
| 455    | 10000            | 17.27            | 376,000   | 1360  | 373,000   | 1350  | 364,000   | 1320  | 353,000   | 1260  | 342,000       | 1200  | 328,000       | 1140  | 310,000       | 1060  |

Single Inlet

## Size "S" Supervane Fan—Design 1

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                     | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                     | H. P. |
|--------|------------------|------------------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|
|        |                  |                  | Static Pressure 1/8" Water .0722 ozs. per sq. inch  |       | Static Pressure 1/4" Water .145 ozs. per sq. inch   |       | Static Pressure 3/8" Water .217 ozs. per sq. inch   |       | Static Pressure 1/2" Water .289 ozs. per sq. inch   |       | Static Pressure 5/8" Water .361 ozs. per sq. inch |       | Static Pressure 3/4" Water .434 ozs. per sq. inch   |       | Static Pressure 7/8" Water .506 ozs. per sq. inch |       |
| 42     | 1010             | 176              | 23,700  | 0.82  |   |       |   |       |   |       |   |       |   |       |   |       |
| 50     | 1200             | 219              | 45,500  | 2.25  |   |       |   |       |   |       |   |       |   |       |   |       |
| 58     | 1100             | 338              | 58,500  | 4.05  |   |       |   |       |   |       |   |       |   |       |   |       |
| 66     | 1600             | 411              | 69,000  | 6.4   | 56,100  | 4.85  |   |       |   |       |   |       |   |       |   |       |
| 75     | 1800             | 559              | 80,500  | 9.4   | 71,600  | 8.1   | 50,500  | 5.5   |   |       |   |       |   |       |   |       |
| 83     | 2000             | 690              | 90,100  | 13.0  | 81,000  | 12.0  | 72,400  | 9.7   |   |       |   |       |   |       |   |       |
| 91     | 2200             | 835              | 101,000   | 17.5  | 95,500  | 16.5  | 87,500  | 14.5  | 73,500  | 11.5  |   |       |   |       |   |       |
| 100    | 2400             | 991              |   |       | 106,000   | 22    | 99,900  | 20.5  | 91,000  | 18    | 73,500  | 11.0  |   |       |   |       |
| 108    | 2600             | 117              |   |       | 118,000   | 29    | 112,000   | 27    | 105,000   | 25    | 95,000  | 21.5  | 79,000  | 18    |   |       |
| 116    | 2800             | 135              |   |       | 127,000   | 36    | 122,000   | 34    | 117,000   | 32    | 110,000   | 30    | 100,000   | 26    | 84,000  | 22    |
| 125    | 3000             | 155              |   |       | 137,000   | 45    | 133,000   | 43    | 129,000   | 42    | 123,000   | 39    | 116,000   | 36    | 106,000   | 32    |
| 133    | 3200             | 177              |   |       | 147,000   | 51    | 144,000   | 54    | 140,000   | 52    | 135,000   | 49    | 129,000   | 46    | 122,000   | 43    |
| 141    | 3400             | 200              |   |       |   |       | 154,000   | 64    | 151,000   | 64    | 147,000   | 60    | 142,000   | 58    | 137,000   | 56    |
| 149    | 3600             | 224              |   |       |   |       | 165,000   | 76    | 161,000   | 76    | 158,000   | 74    | 154,000   | 72    | 149,000   | 66    |
| 158    | 3800             | 240              |   |       |   |       | 174,000   | 90    | 172,000   | 90    | 168,000   | 88    | 165,000   | 86    | 160,000   | 82    |
| 166    | 4000             | 276              |   |       |   |       |   |       | 182,000   | 105   | 179,000   | 105   | 176,000   | 100   | 172,000   | 98    |
| 174    | 4200             | 304              |   |       |   |       |   |       | 192,000   | 120   | 189,000   | 120   | 186,000   | 120   | 183,000   | 115   |
| 183    | 4400             | 334              |   |       |   |       |   |       | 202,000   | 110   | 200,000   | 140   | 197,000   | 140   | 194,000   | 135   |
| 191    | 4600             | 365              |   |       |   |       |   |       |   |       | 210,000   | 160   | 207,000   | 160   | 205,000   | 155   |
| 199    | 4800             | 398              |   |       |   |       |   |       |   |       | 219,000   | 185   | 217,000   | 180   | 215,000   | 180   |
| 208    | 5000             | 431              |   |       |   |       |   |       |   |       | 230,000   | 205   |   |       | 226,000   | 205   |
| 218    | 5250             | 476              |   |       |   |       |   |       |   |       |   |       | 240,000   | 240   | 238,000   | 210   |
| 228    | 5500             | 522              |   |       |   |       |   |       |   |       |   |       | 253,000   | 280   | 251,000   | 275   |
| 230    | 5750             | 571              |   |       |   |       |   |       |   |       |   |       |   |       | 263,000   | 315   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 ozs. per sq. inch     |       | Static Pressure 1 1/4" Water .723 ozs. per sq. inch |       | Static Pressure 1 1/2" Water .878 ozs. per sq. inch |       | Static Pressure 1 3/4" Water 1.01 ozs. per sq. inch |       | Static Pressure 2" Water 1.16 ozs. per sq. inch   |       | Static Pressure 2 1/2" Water 1.45 ozs. per sq. inch |       | Static Pressure 3" Water 1.73 ozs. per sq. inch   |       |
| 125    | 3000             | 155              | 91,000  | 27    |   |       |   |       |   |       |   |       |   |       |   |       |
| 133    | 3200             | 177              | 113,000   | 39    | 76,100  | 26    |   |       |   |       |   |       |   |       |   |       |
| 141    | 3400             | 200              | 129,000   | 52    | 108,000   | 42    |   |       |   |       |   |       |   |       |   |       |
| 149    | 3600             | 224              | 143,000   | 64    | 128,000   | 56    | 101,000   | 41    |   |       |   |       |   |       |   |       |
| 158    | 3800             | 240              | 156,000   | 80    | 144,000   | 72    | 126,000   | 60    | 92,800  | 46    |   |       |   |       |   |       |
| 166    | 4000             | 276              | 168,000   | 96    | 158,000   | 88    | 146,000   | 78    | 124,000   | 66    |   |       |   |       |   |       |
| 174    | 4200             | 304              | 180,000   | 115   | 172,000   | 105   | 162,000   | 98    | 145,000   | 86    | 123,000   | 72    |   |       |   |       |
| 183    | 4400             | 334              | 192,000   | 135   | 184,000   | 125   | 175,000   | 120   | 168,000   | 105   | 147,000   | 96    |   |       |   |       |
| 191    | 4600             | 365              | 202,000   | 155   | 196,000   | 150   | 186,000   | 140   | 179,000   | 130   | 166,000   | 120   | 123,000   | 88    |   |       |
| 199    | 4800             | 398              | 213,000   | 180   | 207,000   | 170   | 200,000   | 165   | 192,000   | 155   | 182,000   | 145   | 151,000   | 115   |   |       |
| 208    | 5000             | 431              | 223,000   | 205   | 218,000   | 195   | 212,000   | 190   | 205,000   | 180   | 197,000   | 170   | 172,000   | 145   | 127,000   | 105   |
| 218    | 5250             | 476              | 236,000   | 235   | 232,000   | 235   | 226,000   | 225   | 220,000   | 215   | 213,000   | 205   | 194,000   | 180   | 164,000   | 150   |
| 228    | 5500             | 522              | 249,000   | 270   | 245,000   | 270   | 240,000   | 265   | 234,000   | 255   | 228,000   | 245   | 212,000   | 220   | 191,000   | 195   |
| 230    | 5750             | 571              | 261,000   | 315   | 258,000   | 310   | 254,000   | 305   | 249,000   | 295   | 243,000   | 290   | 231,000   | 265   | 213,000   | 240   |
| 249    | 6000             | 621              | 274,000   | 355   | 271,000   | 355   | 267,000   | 350   | 268,000   | 340   | 258,000   | 335   | 246,000   | 315   | 232,000   | 290   |
| 260    | 6250             | 674              | 287,000   | 405   | 284,000   | 400   | 280,000   | 395   | 276,000   | 390   | 272,000   | 380   | 262,000   | 365   | 249,000   | 310   |
| 270    | 6500             | 729              |   |       | 296,000   | 455   | 293,000   | 445   | 289,000   | 445   | 286,000   | 435   | 276,000   | 415   | 265,000   | 395   |
| 280    | 6750             | 786              |   |       | 309,000   | 510   | 306,000   | 505   | 302,000   | 500   | 298,000   | 495   | 290,000   | 475   | 280,000   | 455   |
| 291    | 7000             | 845              |   |       | 321,000   | 570   | 318,000   | 565   | 315,000   | 560   | 312,000   | 555   | 304,000   | 535   | 295,000   | 515   |
| 312    | 7500             | 971              |   |       |   |       | 343,000   | 700   | 341,000   | 695   | 338,000   | 685   | 332,000   | 680   | 324,000   | 655   |
| 332    | 8000             | 1104             |   |       |   |       |   |       | 366,000   | 850   | 363,000   | 840   | 358,000   | 830   | 352,000   | 810   |
| 353    | 8500             | 1248             |   |       |   |       |   |       | 391,000   | 1020  | 389,000   | 1020  | 384,000   | 1010  | 378,000   | 990   |
| 374    | 9000             | 1400             |   |       |   |       |   |       |   |       | 413,000   | 1210  |   |       | 405,000   | 1190  |
| 394    | 9500             | 1558             |   |       |   |       |   |       |   |       |   |       | 435,000   | 1420  | 430,000   | 1400  |
| 415    | 10000            | 1727             |   |       |   |       |   |       |   |       |   |       | 459,000   | 1660  | 456,000   | 1640  |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 4 1/2" Water 2.62 ozs. per sq. inch |       | Static Pressure 4" Water 2.31 ozs. per sq. inch     |       | Static Pressure 5" Water 2.89 ozs. per sq. inch     |       | Static Pressure 6" Water 3.47 ozs. per sq. inch     |       | Static Pressure 7" Water 4.03 ozs. per sq. inch   |       | Static Pressure 8" Water 4.63 ozs. per sq. inch     |       | Static Pressure 9" Water 5.2 ozs. per sq. inch    |       |
| 228    | 5500             | 522              | 154,000   | 155   |   |       |   |       |   |       |   |       |   |       |   |       |
| 239    | 5750             | 571              | 187,000   | 205   | 143,000   | 160   |   |       |   |       |   |       |   |       |   |       |
| 249    | 6000             | 621              | 212,000   | 255   | 162,000   | 220   |   |       |   |       |   |       |   |       |   |       |
| 260    | 6250             | 674              | 233,000   | 310   | 211,000   | 275   |   |       |   |       |   |       |   |       |   |       |
| 270    | 6500             | 729              | 252,000   | 370   | 234,000   | 330   | 172,000   | 245   |   |       |   |       |   |       |   |       |
| 280    | 6750             | 786              | 269,000   | 425   | 254,000   | 395   | 208,000   | 320   |   |       |   |       |   |       |   |       |
| 291    | 7000             | 845              | 285,000   | 490   | 273,000   | 460   | 237,000   | 385   | 164,000   | 275   |   |       |   |       |   |       |
| 312    | 7500             | 971              | 315,000   | 635   | 306,000   | 605   | 281,000   | 540   | 241,000   | 440   |   |       |   |       |   |       |
| 332    | 8000             | 1104             | 344,000   | 790   | 336,000   | 765   | 316,000   | 705   | 290,000   | 625   | 248,000   | 535   |   |       |   |       |
| 353    | 8500             | 1248             | 372,000   | 970   | 366,000   | 950   | 349,000   | 890   | 328,000   | 820   | 300,000   | 730   | 259,000   | 630   |   |       |
| 374    | 9000             | 1400             | 398,000   | 1170  | 394,000   | 1150  | 379,000   | 1100  | 361,000   | 1030  | 342,000   | 955   | 313,000   | 845   | 274,000   | 745   |
| 394    | 9500             | 1558             | 425,000   | 1390  | 420,000   | 1370  | 408,000   | 1320  | 393,000   | 1260  | 378,000   | 1190  | 356,000   | 1090  | 328,000   | 990   |
| 415    | 10000            | 1727             | 451,000   | 1630  | 448,000   | 1620  | 436,000   | 1580  | 423,000   | 1520  | 410,000   | 1450  | 393,000   | 1370  | 372,000   | 1270  |

Single Inlet

## Size "T" Supervane Fan—Design 1

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M. H. P. Static Pressure 1/2" Water .0722 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1/2" Water .145 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 3/4" Water .217 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1" Water .289 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1 1/4" Water .361 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1 1/2" Water .434 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1 3/4" Water .506 ozs. per sq. inch |
|--------|------------------|------------------|--|---|---|---|---|---|---|
| 39     | 1010             | .176             | 28,000 0.97  |   |   |   |   |   |   |
| 46     | 1200             | .249             | 53,600 2.65  |   |   |   |   |   |   |
| 53     | 1400             | .338             | 89,000 4.8   |   |   |   |   |   |   |
| 61     | 1600             | .441             | 81,500 7.6   | 66,500 5.7  |   |   |   |   |   |
| 69     | 1800             | .559             | 95,100 11.0  | 84,600 9.6  | 59,600 6.5  |   |   |   |   |
| 76     | 2000             | .690             | 107,000 15.5   | 99,400 14.0   | 85,500 11.5   |   |   |   |   |
| 84     | 2200             | .835             | 120,000 21   | 113,000 19.5  | 103,000 17.5  | 86,000 11   |   |   |   |
| 92     | 2400             | .991             |  | 126,000 26  | 118,000 24  | 108,000 21  | 86,800 17   |   |   |
| 99     | 2600             | 1.17             |  | 139,000 34  | 132,000 32  | 124,000 29  | 112,000 26  | 93,400 21   |   |
| 107    | 2800             | 1.35             |  | 150,000 42  | 144,000 41  | 138,000 38  | 130,000 35  | 118,000 31  | 99,400 26   |
| 115    | 3000             | 1.55             |  | 162,000 52  | 157,000 52  | 152,000 49  | 145,000 46  | 137,000 42  | 125,000 38  |
| 122    | 3200             | 1.77             |  | 171,000 64  | 170,000 64  | 165,000 60  | 160,000 58  | 153,000 54  | 144,000 50  |
| 130    | 3400             | 2.00             |  |   | 182,000 76  | 178,000 74  | 173,000 72  | 167,000 68  | 161,000 66  |
| 138    | 3600             | 2.24             |  |   | 194,000 90  | 190,000 90  | 186,000 86  | 181,000 84  | 176,000 80  |
| 145    | 3800             | 2.49             |  |   | 206,000 105   | 203,000 105   | 199,000 105   | 194,000 100   | 190,000 98  |
| 153    | 4000             | 2.76             |  |   |   | 215,000 125   | 211,000 120   | 208,000 120   | 203,000 115   |
| 160    | 4200             | 3.04             |  |   |   | 227,000 145   | 224,000 145   | 220,000 140   | 217,000 140   |
| 168    | 4400             | 3.34             |  |   |   | 239,000 170   | 236,000 165   | 233,000 165   | 229,000 160   |
| 176    | 4600             | 3.65             |  |   |   |   | 248,000 190   | 245,000 185   | 242,000 185   |
| 183    | 4800             | 3.98             |  |   |   |   | 259,000 215   | 257,000 215   | 254,000 210   |
| 191    | 5000             | 4.31             |  |   |   |   | 271,000 245   | 269,000 245   | 266,000 240   |
| 201    | 5250             | 4.76             |  |   |   |   |   | 284,000 285   | 288,000 280   |
| 210    | 5500             | 5.22             |  |   |   |   |   | 299,000 330   | 296,000 325   |
| 220    | 5750             | 5.71             |  |   |   |   |   |   | 311,000 370   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 ozs. per sq. inch                        | Static Pressure 1 1/4" Water .723 ozs. per sq. inch                   | Static Pressure 1 1/2" Water .878 ozs. per sq. inch                   | Static Pressure 1 3/4" Water 1.01 ozs. per sq. inch                 | Static Pressure 2" Water 1.16 ozs. per sq. inch                         | Static Pressure 2 1/2" Water 1.45 ozs. per sq. inch                     | Static Pressure 3" Water 1.73 ozs. per sq. inch                         |
| 115    | 3000             | 1.55             | 108,000 32   |   |   |   |   |   |   |
| 122    | 3200             | 1.77             | 134,000 46   | 90,000 31   |   |   |   |   |   |
| 130    | 3400             | 2.00             | 153,000 60   | 127,000 49  |   |   |   |   |   |
| 138    | 3600             | 2.24             | 170,000 76   | 151,000 66  | 119,000 52  |   |   |   |   |
| 145    | 3800             | 2.49             | 184,000 94   | 170,000 84  | 149,000 72  | 110,000 54  |   |   |   |
| 153    | 4000             | 2.76             | 199,000 115  | 187,000 105   | 173,000 92  | 147,000 78  |   |   |   |
| 160    | 4200             | 3.04             | 212,000 135  | 203,000 125   | 192,000 115   | 172,000 100   | 145,000 86  |   |   |
| 168    | 4400             | 3.34             | 226,000 155  | 217,000 150   | 207,000 140   | 193,000 125   | 174,000 110   |   |   |
| 176    | 4600             | 3.65             | 239,000 185  | 231,000 175   | 222,000 165   | 211,000 155   | 196,000 140   |   |   |
| 183    | 4800             | 3.98             | 252,000 210  | 244,000 200   | 236,000 195   | 227,000 180   | 215,000 170   | 145,000 105   |   |
| 191    | 5000             | 4.31             | 264,000 240  | 258,000 235   | 250,000 225   | 242,000 215   | 232,000 200   | 204,000 170   | 150,000 125   |
| 201    | 5250             | 4.76             | 279,000 280  | 274,000 275   | 287,000 235   | 280,000 255   | 252,000 245   | 230,000 215   | 194,000 180   |
| 210    | 5500             | 5.22             | 294,000 320  | 289,000 315   | 284,000 310   | 277,000 300   | 270,000 290   | 251,000 260   | 226,000 230   |
| 220    | 5750             | 5.71             | 309,000 370  | 305,000 365   | 300,000 360   | 294,000 350   | 288,000 340   | 273,000 315   | 252,000 280   |
| 229    | 6000             | 6.21             | 324,000 420  | 320,000 415   | 316,000 415   | 310,000 405   | 305,000 395   | 291,000 370   | 274,000 340   |
| 239    | 6250             | 6.74             | 339,000 480  | 335,000 475   | 331,000 465   | 326,000 460   | 321,000 450   | 309,000 430   | 294,000 400   |
| 248    | 6500             | 7.29             |  | 350,000 535   | 346,000 530   | 342,000 525   | 337,000 515   | 326,000 490   | 313,000 465   |
| 258    | 6750             | 7.86             |  | 365,000 600   | 361,000 595   | 357,000 590   | 353,000 580   | 343,000 560   | 331,000 535   |
| 268    | 7000             | 8.45             |  | 379,000 670   |   | 372,000 660   | 369,000 655   | 359,000 635   | 349,000 610   |
| 286    | 7500             | 9.71             |  |   | 405,000 825   | 402,000 820   | 399,000 810   | 392,000 800   | 383,000 775   |
| 306    | 8000             | 11.01            |  |   |   | 433,000 1010  | 429,000 995   | 424,000 980   | 415,000 960   |
| 325    | 8500             | 12.48            |  |   |   | 462,000 1210  | 460,000 1200  | 454,000 1190  | 446,000 1170  |
| 344    | 9000             | 14.00            |  |   |   |   | 488,000 1430  | 484,000 1420  | 478,000 1400  |
| 363    | 9500             | 15.58            |  |   |   |   |   | 514,000 1680  | 508,000 1600  |
| 382    | 10000            | 17.27            |  |   |   |   |   | 542,000 1960  | 539,000 1940  |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 3 1/2" Water 2.02 ozs. per sq. inch                    | Static Pressure 4" Water 2.31 ozs. per sq. inch                       | Static Pressure 5" Water 2.89 ozs. per sq. inch                       | Static Pressure 6" Water 3.47 ozs. per sq. inch                     | Static Pressure 7" Water 4.05 ozs. per sq. inch                         | Static Pressure 8" Water 4.63 ozs. per sq. inch                         | Static Pressure 9" Water 5.2 ozs. per sq. inch                          |
| 210    | 5500             | 5.22             | 182,000 185  |   |   |   |   |   |   |
| 220    | 5750             | 5.71             | 221,000 215  | 169,000 190   |   |   |   |   |   |
| 229    | 6000             | 6.21             | 250,000 300  | 215,000 280   |   |   |   |   |   |
| 239    | 6250             | 6.74             | 275,000 365  | 249,000 325   |   |   |   |   |   |
| 248    | 6500             | 7.29             | 298,000 435  | 277,000 390   | 203,000 290   |   |   |   |   |
| 258    | 6750             | 7.86             | 318,000 505  | 301,000 470   | 246,000 375   |   |   |   |   |
| 268    | 7000             | 8.45             | 337,000 580  | 323,000 545   | 280,000 455   | 194,000 320   |   |   |   |
| 286    | 7500             | 9.71             | 372,000 750  | 362,000 715   | 332,000 635   | 285,000 520   |   |   |   |
| 306    | 8000             | 11.04            | 407,000 935  | 398,000 905   | 374,000 835   | 342,000 735   | 294,000 630   |   |   |
| 325    | 8500             | 12.48            | 440,000 1150   | 432,000 1120  | 412,000 1050  | 388,000 970   | 355,000 860   | 306,000 740   |   |
| 344    | 9000             | 14.00            | 470,000 1380   | 465,000 1350  | 448,000 1300  | 427,000 1210  | 405,000 1130  | 370,000 1000  | 323,000 880   |
| 363    | 9500             | 15.58            | 503,000 1640   | 497,000 1620  | 483,000 1560  | 465,000 1490  | 446,000 1400  | 420,000 1290  | 398,000 1170  |
| 382    | 10000            | 17.27            | 533,000 1930   | 520,000 1910  | 515,000 1860  | 500,000 1790  | 484,000 1710  | 465,000 1610  | 439,000 1500  |

| Single Inlet   |                  |                  | Size "U" Supervane Fan—Design 1  |   |   |   |   |   |   |  |  |  | Single Width |  |  |
|--|------------------|------------------|--|---|---|---|---|---|---|--|--|--|--------------|--|--|
| When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances |                  |                  |  |   |   |   |   |   |   |  |  |  |              |  |  |
| R.P.M.   | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M. H. P. Static Pressure 1/2" Water .0722 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 3/4" Water .145 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1" Water .217 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1 1/4" Water .289 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1 1/2" Water .361 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1 3/4" Water .434 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 2" Water .506 ozs. per sq. inch |  |  |  |              |  |  |
| 36   | 1010             | .176             | 32,800 1 15  |   |   |   |   |   |   |  |  |  |              |  |  |
| 42   | 1200             | .219             | 62,900 3.1   |   |   |   |   |   |   |  |  |  |              |  |  |
| 50   | 1100             | .338             | 81,000 5 6   |   |   |   |   |   |   |  |  |  |              |  |  |
| 57   | 1600             | .411             | 95,500 8.7   | 78,000 6 7  |   |   |   |   |   |  |  |  |              |  |  |
| 64   | 1800             | .559             | 111,000 13.0   | 99,100 11.0   | 69,900 7.6  |   |   |   |   |  |  |  |              |  |  |
| 71   | 2000             | .690             | 125,000 18.0   | 116,000 16 5  | 100,000 13.5  |   |   |   |   |  |  |  |              |  |  |
| 78   | 2200             | .835             | 110,000 24 5   | 132,000 23  | 121,000 20.5  | 102,000 16  |   |   |   |  |  |  |              |  |  |
| 85   | 2100             | .991             |  | 147,000 31  | 138,000 28  | 126,000 25  | 102,000 19 5  |   |   |  |  |  |              |  |  |
| 92   | 2600             | 1 17             |  | 163,000 39  | 155,000 38  | 145,000 34  | 132,000 30  | 109,000 25  |   |  |  |  |              |  |  |
| 99   | 2800             | 1 35             |  | 176,000 50  | 169,000 48  | 162,000 45  | 152,000 41  | 139,000 36  | 116,000 31  |  |  |  |              |  |  |
| 106  | 3000             | 1 55             |  | 190,000 62  | 184,000 60  | 178,000 58  | 170,000 54  | 160,000 50  | 147,000 44  |  |  |  |              |  |  |
| 113  | 3200             | 1 77             |  | 203,000 76  | 199,000 74  | 193,000 72  | 187,000 68  | 179,000 64  | 169,000 60  |  |  |  |              |  |  |
| 120  | 3400             | 2 00             |  |   | 213,000 90  | 209,000 88  | 203,000 84  | 196,000 80  | 189,000 76  |  |  |  |              |  |  |
| 128  | 3600             | 2 24             |  |   | 228,000 105   | 223,000 105   | 218,000 100   | 212,000 98  | 206,000 94  |  |  |  |              |  |  |
| 135  | 3800             | 2 49             |  |   | 241,000 125   | 237,000 125   | 232,000 125   | 228,000 120   | 222,000 115   |  |  |  |              |  |  |
| 142  | 4000             | 2 76             |  |   |   | 252,000 145   | 247,000 145   | 243,000 140   | 238,000 135   |  |  |  |              |  |  |
| 149  | 4200             | 3 04             |  |   |   | 266,000 170   | 262,000 165   | 258,000 165   | 254,000 160   |  |  |  |              |  |  |
| 156  | 4400             | 3 31             |  |   |   | 280,000 195   | 276,000 195   | 273,000 190   | 269,000 190   |  |  |  |              |  |  |
| 163  | 4600             | 3 65             |  |   |   |   | 290,000 225   | 287,000 220   | 283,000 220   |  |  |  |              |  |  |
| 170  | 4800             | 3 98             |  |   |   |   | 304,000 255   | 301,000 250   | 298,000 250   |  |  |  |              |  |  |
| 177  | 5000             | 4 31             |  |   |   |   | 318,000 285   | 315,000 285   | 312,000 285   |  |  |  |              |  |  |
| 186  | 5250             | 4 76             |  |   |   |   |   | 332,000 335   | 330,000 330   |  |  |  |              |  |  |
| 195  | 5500             | 5 22             |  |   |   |   |   | 350,000 385   | 347,000 380   |  |  |  |              |  |  |
| 201  | 5750             | 5 71             |  |   |   |   |   |   | 365,000 435   |  |  |  |              |  |  |
| R.P.M.   | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 ozs. per sq. inch                        | Static Pressure 1 1/4" Water .723 ozs. per sq. inch                   | Static Pressure 1 1/2" Water .878 ozs. per sq. inch                 | Static Pressure 1 3/4" Water 1.01 ozs. per sq. inch                     | Static Pressure 2" Water 1.16 ozs. per sq. inch                         | Static Pressure 2 1/4" Water 1.45 ozs. per sq. inch                     | Static Pressure 2 1/2" Water 1.73 ozs. per sq. inch                 |  |  |  |              |  |  |
| 106  | 3000             | 1 55             | 126,000 38   |   |   |   |   |   |   |  |  |  |              |  |  |
| 113  | 3200             | 1 77             | 156,000 54   | 105,000 37  |   |   |   |   |   |  |  |  |              |  |  |
| 120  | 3400             | 2 00             | 179,000 70   | 149,000 58  |   |   |   |   |   |  |  |  |              |  |  |
| 128  | 3600             | 2 24             | 198,000 90   | 177,000 78  | 140,000 60  |   |   |   |   |  |  |  |              |  |  |
| 135  | 3800             | 2 49             | 216,000 110  | 200,000 98  | 175,000 84  | 120,000 62  |   |   |   |  |  |  |              |  |  |
| 142  | 4000             | 2 76             | 232,000 135  | 219,000 120   | 202,000 110   | 172,000 92  |   |   |   |  |  |  |              |  |  |
| 149  | 4200             | 3 04             | 249,000 155  | 237,000 145   | 224,000 135   | 201,000 120   | 170,000 100   |   |   |  |  |  |              |  |  |
| 156  | 4400             | 3 34             | 265,000 185  | 254,000 175   | 242,000 165   | 226,000 150   | 204,000 130   |   |   |  |  |  |              |  |  |
| 163  | 4600             | 3 65             | 280,000 215  | 271,000 205   | 260,000 195   | 247,000 180   | 230,000 165   | 170,000 120   |   |  |  |  |              |  |  |
| 170  | 4800             | 3 98             | 295,000 245  | 286,000 235   | 276,000 225   | 266,000 215   | 252,000 200   | 209,000 160   |   |  |  |  |              |  |  |
| 177  | 5000             | 4 31             | 309,000 280  | 302,000 275   | 293,000 260   | 284,000 250   | 272,000 235   | 239,000 200   | 176,000 150   |  |  |  |              |  |  |
| 186  | 5250             | 4 76             | 327,000 325  | 320,000 325   | 313,000 310   | 305,000 300   | 295,000 285   | 269,000 250   | 227,000 210   |  |  |  |              |  |  |
| 195  | 5500             | 5 22             | 344,000 375  | 339,000 370   | 332,000 365   | 325,000 350   | 316,000 340   | 294,000 305   | 264,000 265   |  |  |  |              |  |  |
| 204  | 5750             | 5 71             | 362,000 435  | 357,000 430   | 351,000 420   | 344,000 410   | 337,000 400   | 319,000 370   | 295,000 330   |  |  |  |              |  |  |
| 213  | 6000             | 6 21             | 380,000 490  | 375,000 490   | 369,000 485   | 364,000 470   | 357,000 460   | 341,000 435   | 321,000 400   |  |  |  |              |  |  |
| 222  | 6250             | 6 74             | 397,000 560  | 393,000 555   | 387,000 545   | 382,000 540   | 376,000 530   | 362,000 505   | 345,000 470   |  |  |  |              |  |  |
| 230  | 6500             | 7 29             |  | 410,000 630   | 405,000 620   | 400,000 615   | 395,000 605   | 382,000 575   | 367,000 545   |  |  |  |              |  |  |
| 239  | 6750             | 7 86             |  | 427,000 705   | 423,000 695   | 418,000 690   | 413,000 680   | 402,000 660   | 388,000 625   |  |  |  |              |  |  |
| 248  | 7000             | 8 45             |  | 444,000 785   | 440,000 780   | 436,000 775   | 432,000 765   | 420,000 740   | 409,000 715   |  |  |  |              |  |  |
| 266  | 7500             | 9 71             |  |   | 475,000 970   | 471,000 960   | 468,000 950   | 460,000 940   | 449,000 910   |  |  |  |              |  |  |
| 283  | 8000             | 11 04            |  |   |   | 506,000 1180  | 503,000 1160  | 496,000 1150  | 487,000 1120  |  |  |  |              |  |  |
| 301  | 8500             | 12 48            |  |   |   | 542,000 1410  | 539,000 1405  | 531,000 1390  | 523,000 1370  |  |  |  |              |  |  |
| 319  | 9000             | 14 00            |  |   |   |   | 572,000 1670  | 566,000 1660  | 560,000 1640  |  |  |  |              |  |  |
| 336  | 9500             | 15 58            |  |   |   |   |   | 601,000 1970  | 595,000 1940  |  |  |  |              |  |  |
| 354  | 10000            | 17 27            |  |   |   |   |   | 635,000 2300  | 630,000 2280  |  |  |  |              |  |  |
| R.P.M.   | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 3 1/4" Water 2.02 ozs. per sq. inch                    | Static Pressure 4" Water 2.31 ozs. per sq. inch                       | Static Pressure 5" Water 2.89 ozs. per sq. inch                     | Static Pressure 6" Water 3.47 ozs. per sq. inch                         | Static Pressure 7" Water 4.05 ozs. per sq. inch                         | Static Pressure 8" Water 4.63 ozs. per sq. inch                         | Static Pressure 9" Water 5.2 ozs. per sq. inch                      |  |  |  |              |  |  |
| 195  | 5500             | 5 22             | 214,000 220  |   |   |   |   |   |   |  |  |  |              |  |  |
| 204  | 5750             | 5 71             | 250,000 285  | 198,000 220   |   |   |   |   |   |  |  |  |              |  |  |
| 213  | 6000             | 6 21             | 263,000 355  | 252,000 305   |   |   |   |   |   |  |  |  |              |  |  |
| 222  | 6250             | 6 74             | 322,000 430  | 292,000 380   |   |   |   |   |   |  |  |  |              |  |  |
| 230  | 6500             | 7 29             | 349,000 510  | 324,000 460   | 238,000 340   |   |   |   |   |  |  |  |              |  |  |
| 239  | 6750             | 7 86             | 372,000 590  | 352,000 550   | 288,000 440   |   |   |   |   |  |  |  |              |  |  |
| 248  | 7000             | 8 45             | 395,000 690  | 378,000 640   | 328,000 535   | 227,000 380   |   |   |   |  |  |  |              |  |  |
| 266  | 7500             | 9 71             | 436,000 875  | 424,000 840   | 389,000 745   | 334,000 605   |   |   |   |  |  |  |              |  |  |
| 283  | 8000             | 11 04            | 477,000 1100   | 465,000 1060  | 438,000 975   | 400,000 865   | 344,000 735   |   |   |  |  |  |              |  |  |
| 301  | 8500             | 12 48            | 515,000 1340   | 506,000 1310  | 483,000 1230  | 455,000 1140  | 415,000 1010  | 358,000 870   |   |  |  |  |              |  |  |
| 319  | 9000             | 14 00            | 551,000 1620   | 545,000 1590  | 525,000 1520  | 500,000 1420  | 474,000 1320  | 433,000 1170  | 379,000 1030  |  |  |  |              |  |  |
| 326  | 9500             | 15 58            | 589,000 1930   | 582,000 1900  | 565,000 1830  | 545,000 1740  | 523,000 1640  | 492,000 1510  | 455,000 1370  |  |  |  |              |  |  |
| 354  | 10000            | 17 27            | 625,000 2200   | 619,000 2240  | 604,000 2180  | 586,000 2100  | 567,000 2000  | 545,000 1890  | 515,000 1750  |  |  |  |              |  |  |



Single Inlet

## Size "V" Supervane Fan—Design 1

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.                                       | H. P.   | Volume C.F.M.                                       | H. P.   | Volume C.F.M.                                     | H. P.   | Volume C.F.M.                                       | H. P. | Volume C.F.M. | H. P. | Volume C.F.M. | H. P. | Volume C.F.M. | H. P. |
|--------|------------------|------------------|---|---|---|---|---|---|---|-------|---------------|-------|---------------|-------|---------------|-------|
|        |                  |                  | Static Pressure 1/2" Water .0722 ozs. per sq. inch  | Static Pressure 1/4" Water .145 ozs. per sq. inch   | Static Pressure 3/8" Water .217 ozs. per sq. inch   | Static Pressure 1/2" Water .289 ozs. per sq. inch   | Static Pressure 5/8" Water .361 ozs. per sq. inch | Static Pressure 3/4" Water .434 ozs. per sq. inch   | Static Pressure 7/8" Water .506 ozs. per sq. inch   |       |               |       |               |       |               |       |
| 33     | 1010             | .176             | 37,700  | 1.30  |   |   |   |   |   |       |               |       |               |       |               |       |
| 39     | 1200             | .249             | 72,400  | 3.55  |   |   |   |   |   |       |               |       |               |       |               |       |
| 46     | 1400             | .338             | 93,200  | 6.4   |   |   |   |   |   |       |               |       |               |       |               |       |
| 53     | 1600             | .441             | 110,000   | 10  | 89,800  | 7.7   |   |   |   |       |               |       |               |       |               |       |
| 59     | 1800             | .559             | 128,000   | 15  | 114,000   | 13  | 80,500  | 8.8   |   |       |               |       |               |       |               |       |
| 66     | 2000             | .690             | 144,000   | 21  | 134,000   | 19  | 115,000   | 15.5  |   |       |               |       |               |       |               |       |
| 72     | 2200             | .835             | 161,000   | 28  | 152,000   | 27  | 140,000   | 23.5  | 117,000   | 18.5  |               |       |               |       |               |       |
| 79     | 2400             | .994             |   |   | 170,000   | 35  | 159,000   | 33  | 145,000   | 27    | 117,000       | 22.5  |               |       |               |       |
| 86     | 2600             | 1.17             |   |   | 188,000   | 45  | 178,000   | 43  | 167,000   | 40    | 161,000       | 35    | 126,000       | 29    |               |       |
| 92     | 2800             | 1.35             |   |   | 203,000   | 58  | 194,000   | 54  | 187,000   | 52    | 175,000       | 48    | 160,000       | 42    | 134,000       | 35    |
| 99     | 3000             | 1.55             |   |   | 219,000   | 72  | 212,000   | 70  | 205,000   | 66    | 196,000       | 62    | 184,000       | 58    | 169,000       | 50    |
| 105    | 3200             | 1.77             |   |   | 234,000   | 86  | 229,000   | 86  | 223,000   | 82    | 215,000       | 78    | 203,000       | 74    | 194,000       | 68    |
| 112    | 3400             | 2.00             |   |   |   |   | 245,000   | 105   | 240,000   | 100   | 234,000       | 98    | 226,000       | 94    | 218,000       | 88    |
| 118    | 3600             | 2.24             |   |   |   |   | 262,000   | 120   | 256,000   | 120   | 251,000       | 115   | 245,000       | 115   | 237,000       | 110   |
| 125    | 3800             | 2.49             |   |   |   |   | 278,000   | 145   | 273,000   | 145   | 268,000       | 140   | 262,000       | 135   | 256,000       | 130   |
| 132    | 4000             | 2.76             |   |   |   |   |   |   | 289,000   | 170   | 285,000       | 165   | 280,000       | 160   | 274,000       | 160   |
| 138    | 4200             | 3.04             |   |   |   |   |   |   | 306,000   | 195   | 302,000       | 195   | 297,000       | 190   | 292,000       | 185   |
| 145    | 4400             | 3.34             |   |   |   |   |   |   | 322,000   | 225   | 318,000       | 225   | 314,000       | 220   | 309,000       | 215   |
| 151    | 4600             | 3.65             |   |   |   |   |   |   |   |       | 334,000       | 255   | 330,000       | 250   | 326,000       | 250   |
| 158    | 4800             | 3.98             |   |   |   |   |   |   |   |       | 350,000       | 290   | 346,000       | 290   | 343,000       | 285   |
| 164    | 5000             | 4.31             |   |   |   |   |   |   |   |       | 366,000       | 330   | 363,000       | 330   | 359,000       | 325   |
| 173    | 5250             | 4.76             |   |   |   |   |   |   |   |       |               |       | 382,000       | 385   | 379,000       | 380   |
| 181    | 5500             | 5.22             |   |   |   |   |   |   |   |       |               |       | 402,000       | 440   | 400,000       | 435   |
| 189    | 5750             | 5.71             |   |   |   |   |   |   |   |       |               |       |               |       | 420,000       | 500   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 ozs. per sq. inch     | Static Pressure 1 1/4" Water .723 ozs. per sq. inch | Static Pressure 1 1/2" Water .878 ozs. per sq. inch | Static Pressure 1 3/4" Water 1.01 ozs. per sq. inch | Static Pressure 2" Water 1.16 ozs. per sq. inch   | Static Pressure 2 1/4" Water 1.45 ozs. per sq. inch | Static Pressure 2 1/2" Water 1.73 ozs. per sq. inch |       |               |       |               |       |               |       |
| 99     | 3000             | 1.55             | 145,000   | 44  |   |   |   |   |   |       |               |       |               |       |               |       |
| 105    | 3200             | 1.77             | 180,000   | 62  | 121,000   | 42  |   |   |   |       |               |       |               |       |               |       |
| 112    | 3400             | 2.00             | 206,000   | 82  | 172,000   | 66  |   |   |   |       |               |       |               |       |               |       |
| 118    | 3600             | 2.24             | 228,000   | 105   | 203,000   | 88  | 161,000   | 70  |   |       |               |       |               |       |               |       |
| 125    | 3800             | 2.49             | 248,000   | 125   | 230,000   | 115   | 201,000   | 98  | 148,000   | 72    |               |       |               |       |               |       |
| 132    | 4000             | 2.76             | 268,000   | 155   | 252,000   | 140   | 233,000   | 125   | 198,000   | 105   |               |       |               |       |               |       |
| 138    | 4200             | 3.04             | 286,000   | 180   | 273,000   | 170   | 258,000   | 155   | 232,000   | 135   | 196,000       | 115   |               |       |               |       |
| 145    | 4400             | 3.34             | 305,000   | 210   | 293,000   | 200   | 279,000   | 190   | 260,000   | 170   | 234,000       | 150   |               |       |               |       |
| 151    | 4600             | 3.65             | 322,000   | 245   | 312,000   | 235   | 299,000   | 225   | 285,000   | 210   | 265,000       | 190   | 195,000       | 140   |               |       |
| 158    | 4800             | 3.98             | 340,000   | 285   | 329,000   | 270   | 318,000   | 260   | 306,000   | 245   | 280,000       | 230   | 240,000       | 185   |               |       |
| 161    | 5000             | 4.31             | 356,000   | 325   | 348,000   | 315   | 338,000   | 300   | 326,000   | 285   | 314,000       | 270   | 275,000       | 230   | 202,000       | 170   |
| 173    | 5250             | 4.76             | 376,000   | 375   | 369,000   | 375   | 360,000   | 355   | 351,000   | 345   | 340,000       | 330   | 310,000       | 290   | 261,000       | 240   |
| 181    | 5500             | 5.22             | 396,000   | 435   | 390,000   | 430   | 383,000   | 420   | 374,000   | 405   | 364,000       | 390   | 338,000       | 355   | 304,000       | 305   |
| 189    | 5750             | 5.71             | 416,000   | 500   | 411,000   | 490   | 405,000   | 485   | 396,000   | 470   | 388,000       | 460   | 367,000       | 425   | 339,000       | 380   |
| 197    | 6000             | 6.21             | 437,000   | 565   | 431,000   | 565   | 425,000   | 555   | 419,000   | 545   | 410,000       | 530   | 392,000       | 500   | 369,000       | 460   |
| 206    | 6250             | 6.74             | 457,000   | 645   | 452,000   | 640   | 445,000   | 630   | 440,000   | 620   | 433,000       | 610   | 416,000       | 580   | 398,000       | 540   |
| 214    | 6500             | 7.29             |   |   | 471,000   | 725   | 467,000   | 710   | 460,000   | 705   | 455,000       | 695   | 439,000       | 660   | 422,000       | 630   |
| 222    | 6750             | 7.86             |   |   | 492,000   | 810   | 487,000   | 800   | 481,000   | 795   | 475,000       | 785   | 462,000       | 755   | 446,000       | 720   |
| 230    | 7000             | 8.45             |   |   | 511,000   | 905   | 507,000   | 900   | 503,000   | 890   | 497,000       | 880   | 485,000       | 855   | 470,000       | 825   |
| 247    | 7500             | 9.71             |   |   |   |   | 547,000   | 1120  | 543,000   | 1110  | 539,000       | 1090  | 529,000       | 1080  | 518,000       | 1050  |
| 263    | 8000             | 11.04            |   |   |   |   |   |   | 583,000   | 1360  | 579,000       | 1340  | 571,000       | 1320  | 560,000       | 1290  |
| 280    | 8500             | 12.48            |   |   |   |   |   |   | 624,000   | 1620  | 620,000       | 1620  | 611,000       | 1610  | 601,000       | 1580  |
| 296    | 9000             | 14.00            |   |   |   |   |   |   |   |       | 659,000       | 1930  | 652,000       | 1920  | 645,000       | 1890  |
| 312    | 9500             | 15.58            |   |   |   |   |   |   |   |       |               |       | 692,000       | 2260  | 685,000       | 2240  |
| 329    | 10000            | 17.27            |   |   |   |   |   |   |   |       |               |       | 731,000       | 2650  | 725,000       | 2620  |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 3 1/2" Water 2.02 ozs. per sq. inch | Static Pressure 4" Water 2.31 ozs. per sq. inch     | Static Pressure 5" Water 2.89 ozs. per sq. inch     | Static Pressure 6" Water 3.47 ozs. per sq. inch     | Static Pressure 7" Water 4.05 ozs. per sq. inch   | Static Pressure 8" Water 4.63 ozs. per sq. inch     | Static Pressure 9" Water 5.2 ozs. per sq. inch      |       |               |       |               |       |               |       |
| 181    | 5500             | 5.22             | 246,000   | 250   |   |   |   |   |   |       |               |       |               |       |               |       |
| 189    | 5750             | 5.71             | 298,000   | 330   | 228,000   | 255   |   |   |   |       |               |       |               |       |               |       |
| 197    | 6000             | 6.21             | 337,000   | 410   | 290,000   | 350   |   |   |   |       |               |       |               |       |               |       |
| 206    | 6250             | 6.74             | 371,000   | 490   | 336,000   | 435   |   |   |   |       |               |       |               |       |               |       |
| 214    | 6500             | 7.29             | 401,000   | 585   | 373,000   | 530   | 274,000   | 390   |   |       |               |       |               |       |               |       |
| 222    | 6750             | 7.86             | 429,000   | 680   | 405,000   | 630   | 332,000   | 505   |   |       |               |       |               |       |               |       |
| 230    | 7000             | 8.45             | 454,000   | 785   | 435,000   | 735   | 377,000   | 615   | 262,000   | 435   |               |       |               |       |               |       |
| 247    | 7500             | 9.71             | 502,000   | 1010  | 487,000   | 965   | 447,000   | 860   | 384,000   | 700   |               |       |               |       |               |       |
| 263    | 8000             | 11.04            | 549,000   | 1260  | 535,000   | 1220  | 504,000   | 1130  | 461,000   | 995   | 396,000       | 850   |               |       |               |       |
| 280    | 8500             | 12.48            | 593,000   | 1540  | 582,000   | 1510  | 555,000   | 1420  | 523,000   | 1310  | 478,000       | 1160  | 412,000       | 1000  |               |       |
| 296    | 9000             | 14.00            | 634,000   | 1860  | 627,000   | 1820  | 603,000   | 1750  | 576,000   | 1640  | 545,000       | 1520  | 498,000       | 1350  | 436,000       | 1190  |
| 312    | 9500             | 15.58            | 678,000   | 2220  | 670,000   | 2190  | 650,000   | 2110  | 627,000   | 2010  | 601,000       | 1890  | 567,000       | 1740  | 524,000       | 1580  |
| 329    | 10000            | 17.27            | 718,000   | 2600  | 713,000   | 2580  | 695,000   | 2510  | 675,000   | 2410  | 653,000       | 2300  | 627,000       | 2180  | 592,000       | 2020  |



**When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances**

270

**Single Inlet      Size "X" Supervane Fan—Design 1      Single Width**  
**When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances**

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M. H.P. Static Pressure 1/2" Water .0722 ozs. per sq. inch | Volume C.F.M. H.P. Static Pressure 1/2" Water .145 ozs. per sq. inch | Volume C.F.M. H.P. Static Pressure 3/4" Water .217 ozs. per sq. inch | Volume C.F.M. H.P. Static Pressure 1" Water .289 ozs. per sq. inch | Volume C.F.M. H.P. Static Pressure 1 1/4" Water .361 ozs. per sq. inch | Volume C.F.M. H.P. Static Pressure 1 1/2" Water .434 ozs. per sq. inch | Volume C.F.M. H.P. Static Pressure 1 3/4" Water .506 ozs. per sq. inch |
|--------|------------------|------------------|---|--|--|--|--|--|--|
| 28     | 1010             | .176             | 54,000 1 9  |  |  |  |  |  |  |
| 33     | 1200             | .249             | 105,000 5.2   |  |  |  |  |  |  |
| 38     | 1400             | .338             | 136,000 9.4   |  |  |  |  |  |  |
| 44     | 1600             | .441             | 160,000 15  | 131,000 11   |  |  |  |  |  |
| 49     | 1800             | .559             | 187,000 22  | 166,000 19   | 117,000 13   |  |  |  |  |
| 55     | 2000             | .690             | 209,000 30  | 195,000 28   | 168,000 22   |  |  |  |  |
| 60     | 2200             | .835             | 235,000 41  | 222,000 39   | 203,000 34   | 171,000 27   |  |  |  |
| 65     | 2400             | .994             |   | 247,000 52   | 232,000 48   | 211,000 42   | 171,000 33   |  |  |
| 71     | 2600             | 1 17             |   | 273,000 66   | 250,000 64   | 243,000 58   | 220,000 50   | 183,000 42   |  |
| 76     | 2800             | 1 35             |   | 295,000 84   | 283,000 80   | 272,000 76   | 256,000 70   | 232,000 62   | 195,000 52   |
| 82     | 3000             | 1 55             |   | 319,000 105  | 309,000 100  | 299,000 96   | 286,000 90   | 268,000 84   | 240,000 74   |
| 87     | 3200             | 1 77             |   | 341,000 125  | 334,000 125  | 324,000 120  | 313,000 115  | 300,000 110  | 283,000 100  |
| 93     | 3400             | 2 00             |   |  | 357,000 150  | 350,000 145  | 340,000 140  | 328,000 135  | 317,000 130  |
| 98     | 3600             | 2 24             |   |  | 382,000 180  | 373,000 175  | 366,000 170  | 356,000 165  | 345,000 160  |
| 104    | 3800             | 2 49             |   |  | 404,000 210  | 398,000 210  | 390,000 205  | 382,000 200  | 372,000 190  |
| 109    | 4000             | 2 76             |   |  |  | 421,000 245  | 415,000 240  | 407,000 235  | 399,000 230  |
| 115    | 4200             | 3 04             |   |  |  | 445,000 285  | 440,000 280  | 432,000 275  | 425,000 270  |
| 120    | 4400             | 3 34             |   |  |  | 469,000 330  | 463,000 325  | 457,000 320  | 450,000 315  |
| 125    | 4600             | 3 65             |   |  |  |  | 486,000 375  | 480,000 370  | 474,000 365  |
| 131    | 4800             | 3 98             |   |  |  |  | 509,000 425  | 504,000 420  | 500,000 415  |
| 136    | 5000             | 4 31             |   |  |  |  | 532,000 480  | 529,000 480  | 523,000 475  |
| 143    | 5250             | 4 76             |   |  |  |  |  | 557,000 560  | 552,000 555  |
| 150    | 5500             | 5 22             |   |  |  |  |  | 586,000 645  | 582,000 635  |
| 157    | 5750             | 5 71             |   |  |  |  |  |  | 611,000 730  |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 ozs. per sq. inch                       | Static Pressure 1 1/4" Water .723 ozs. per sq. inch                  | Static Pressure 1 1/2" Water .878 ozs. per sq. inch                  | Static Pressure 1 3/4" Water 1.01 ozs. per sq. inch                | Static Pressure 2" Water 1.16 ozs. per sq. inch                        | Static Pressure 2 1/4" Water 1.48 ozs. per sq. inch                    | Static Pressure 2 3/4" Water 1.73 ozs. per sq. inch                    |
| 82     | 3000             | 1 55             | 211,000 64  |  |  |  |  |  |  |
| 87     | 3200             | 1 77             | 262,000 90  | 177,000 62   |  |  |  |  |  |
| 93     | 3400             | 2 00             | 300,000 120   | 250,000 96   |  |  |  |  |  |
| 98     | 3600             | 2 24             | 332,000 150   | 296,000 130  | 234,000 100  |  |  |  |  |
| 104    | 3800             | 2 49             | 362,000 185   | 334,000 165  | 293,000 140  | 217,000 105  |  |  |  |
| 109    | 4000             | 2 76             | 390,000 220   | 367,000 205  | 339,000 185  | 288,000 155  |  |  |  |
| 115    | 4200             | 3 04             | 417,000 260   | 398,000 245  | 376,000 225  | 337,000 200  | 285,000 170  |  |  |
| 120    | 4400             | 3 34             | 444,000 310   | 427,000 295  | 406,000 275  | 378,000 250  | 341,000 220  |  |  |
| 125    | 4600             | 3 65             | 469,000 360   | 453,000 345  | 435,000 325  | 415,000 300  | 385,000 275  | 284,000 205  |  |
| 131    | 4800             | 3 98             | 495,000 415   | 479,000 395  | 463,000 380  | 445,000 360  | 422,000 335  | 350,000 270  |  |
| 136    | 5000             | 4 31             | 518,000 470   | 508,000 455  | 491,000 440  | 475,000 420  | 456,000 395  | 400,000 335  | 294,000 260  |
| 143    | 5250             | 4 76             | 548,000 550   | 537,000 545  | 524,000 520  | 511,000 500  | 495,000 480  | 451,000 420  | 381,000 350  |
| 150    | 5500             | 5 22             | 578,000 635   | 568,000 625  | 557,000 610  | 544,000 590  | 530,000 570  | 492,000 515  | 443,000 450  |
| 157    | 5750             | 5 71             | 606,000 730   | 598,000 715  | 589,000 705  | 577,000 690  | 565,000 665  | 535,000 620  | 494,000 555  |
| 164    | 6000             | 6 21             | 636,000 825   | 628,000 820  | 619,000 810  | 610,000 790  | 598,000 775  | 571,000 725  | 538,000 670  |
| 171    | 6250             | 6 74             | 665,000 940   | 658,000 935  | 649,000 920  | 641,000 905  | 630,000 885  | 606,000 840  | 575,000 785  |
| 177    | 6500             | 7 29             |   | 686,000 1050   | 680,000 1040   | 671,000 1030   | 662,000 1010   | 640,000 960  | 615,000 915  |
| 184    | 6750             | 7 86             |   | 716,000 1180   | 709,000 1170   | 701,000 1150   | 692,000 1140   | 674,000 1100   | 650,000 1050   |
| 191    | 7000             | 8 45             |   | 745,000 1320   | 738,000 1310   | 731,000 1300   | 725,000 1280   | 705,000 1240   | 684,000 1200   |
| 205    | 7500             | 9 71             |   |  | 796,000 1620   | 790,000 1610   | 784,000 1590   | 770,000 1570   | 752,000 1530   |
| 218    | 8000             | 11 04            |   |  |  | 850,000 1980   | 842,000 1950   | 831,000 1930   | 816,000 1890   |
| 232    | 8500             | 12 48            |   |  |  | 908,000 2370   | 902,000 2360   | 890,000 2340   | 876,000 2300   |
| 246    | 9000             | 14 00            |   |  |  |  | 958,000 2810   | 949,000 2790   | 938,000 2750   |
| 259    | 9500             | 15 58            |   |  |  |  |  | 1,010,000 3300   | 998,000 3260   |
| 273    | 10000            | 17 27            |   |  |  |  |  | 1,070,000 3800   | 1,060,000 3810   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 3 1/4" Water 2.02 ozs. per sq. inch                   | Static Pressure 4" Water 2.31 ozs. per sq. inch                      | Static Pressure 5" Water 2.89 ozs. per sq. inch                      | Static Pressure 6" Water 3.47 ozs. per sq. inch                    | Static Pressure 7" Water 4.05 ozs. per sq. inch                        | Static Pressure 8" Water 4.63 ozs. per sq. inch                        | Static Pressure 9" Water 5.2 ozs. per sq. inch                         |
| 150    | 5500             | 5 22             | 358,000 365   |  |  |  |  |  |  |
| 157    | 5750             | 5 71             | 431,000 480   | 332,000 370  |  |  |  |  |  |
| 164    | 6000             | 6 21             | 491,000 595   | 422,000 510  |  |  |  |  |  |
| 171    | 6250             | 6 74             | 541,000 720   | 489,000 640  |  |  |  |  |  |
| 177    | 6500             | 7 29             | 585,000 855   | 513,000 770  | 398,000 570  |  |  |  |  |
| 184    | 6750             | 7 86             | 624,000 990   | 590,000 920  | 483,000 740  |  |  |  |  |
| 191    | 7000             | 8 45             | 662,000 1140  | 634,000 1070   | 549,000 895  | 381,000 635  |  |  |  |
| 205    | 7500             | 9 71             | 731,000 1470  | 710,000 1410   | 651,000 1250   | 560,000 1020   |  |  |  |
| 218    | 8000             | 11 04            | 799,000 1840  | 780,000 1780   | 734,000 1640   | 672,000 1450   | 576,000 1240   |  |  |
| 232    | 8500             | 12 48            | 863,000 2250  | 848,000 2200   | 809,000 2070   | 762,000 1900   | 696,000 1690   | 601,000 1460   |  |
| 246    | 9000             | 14 00            | 924,000 2710  | 913,000 2660   | 879,000 2550   | 839,000 2380   | 794,000 2220   | 726,000 1960   | 635,000 1730   |
| 259    | 9500             | 15 58            | 986,000 3230  | 975,000 3190   | 947,000 3070   | 913,000 2920   | 876,000 2750   | 826,000 2540   | 762,000 2300   |
| 273    | 10000            | 17 27            | 1,050,000 3790  | 1,040,000 3750   | 1,010,000 3660   | 981,000 3520   | 950,000 3350   | 913,000 3170   | 862,000 2940   |

### Single Width

**When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances**

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.<br>Static Pressure<br>$\frac{1}{8}$ " Water<br>.0722 ozs. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure<br>$\frac{1}{4}$ " Water<br>.145 ozs. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure<br>$\frac{3}{8}$ " Water<br>.217 ozs. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure<br>$\frac{1}{2}$ " Water<br>.289 ozs. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure<br>$\frac{5}{8}$ " Water<br>.361 ozs. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure<br>$\frac{3}{4}$ " Water<br>.434 ozs. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure<br>$\frac{7}{8}$ " Water<br>.506 ozs. per sq. inch | H. P. |
|--------|------------------|------------------|--|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|
| 25     | 1010             | 176              | 64,700   | 2 2   |   |       |   |       |   |       |   |       |   |       |   |       |
| 30     | 1200             | 219              | 123,000  | 6-1   |   |       |   |       |   |       |   |       |   |       |   |       |
| 35     | 1100             | 338              | 160,000  | 11 0  |   |       |   |       |   |       |   |       |   |       |   |       |
| 40     | 1600             | 441              | 189,000  | 17 5  | 154,000   | 13    |   |       |   |       |   |       |   |       |   |       |
| 45     | 1800             | 559              | 220,000  | 26    | 196,000   | 22    | 138,000   | 15    |   |       |   |       |   |       |   |       |
| 50     | 2000             | 690              | 216,000  | 36    | 230,000   | 33    | 198,000   | 27    |   |       |   |       |   |       |   |       |
| 55     | 2200             | 835              | 276,000  | 48    | 261,000   | 45    | 230,000   | 40    | 201,000   | 32    |   |       |   |       |   |       |
| 60     | 2400             | 991              |  |       | 291,000   | 60    | 273,000   | 56    | 249,000   | 49    | 201,000   | 39    |   |       |   |       |
| 65     | 2600             | 1 17             |  |       | 322,000   | 78    | 305,000   | 74    | 286,000   | 68    | 260,000   | 60    | 216,000   | 49    |   |       |
| 70     | 2800             | 1 35             |  |       | 347,000   | 98    | 333,000   | 94    | 320,000   | 88    | 301,000   | 82    | 274,000   | 72    | 230,000   | 60    |
| 75     | 3000             | 1 55             |  |       | 375,000   | 120   | 364,000   | 120   | 352,000   | 115   | 336,000   | 105   | 316,000   | 98    | 290,000   | 88    |
| 80     | 3200             | 1 77             |  |       | 402,000   | 150   | 393,000   | 145   | 382,000   | 140   | 369,000   | 135   | 353,000   | 125   | 324,000   | 115   |
| 85     | 3400             | 2 00             |  |       |   |       | 420,000   | 175   | 411,000   | 170   | 400,000   | 165   | 387,000   | 160   | 373,000   | 150   |
| 90     | 3600             | 2 24             |  |       |   |       | 450,000   | 210   | 440,000   | 210   | 431,000   | 200   | 420,000   | 195   | 400,000   | 185   |
| 95     | 3800             | 2 49             |  |       |   |       | 476,000   | 250   | 469,000   | 245   | 459,000   | 240   | 450,000   | 235   | 439,000   | 225   |
| 101    | 4000             | 2 76             |  |       |   |       |   |       | 490,000   | 290   | 488,000   | 285   | 480,000   | 280   | 470,000   | 270   |
| 106    | 4200             | 3 04             |  |       |   |       |   |       | 524,000   | 335   | 517,000   | 330   | 509,000   | 325   | 500,000   | 320   |
| 111    | 4400             | 3 34             |  |       |   |       |   |       | 552,000   | 385   | 545,000   | 385   | 538,000   | 375   | 530,000   | 370   |
| 116    | 4600             | 3 65             |  |       |   |       |   |       |   |       | 573,000   | 440   | 566,000   | 435   | 559,000   | 430   |
| 121    | 4800             | 3 98             |  |       |   |       |   |       |   |       | 599,000   | 500   | 594,000   | 495   | 588,000   | 490   |
| 126    | 5000             | 4 31             |  |       |   |       |   |       |   |       | 627,000   | 565   | 623,000   | 565   | 616,000   | 560   |
| 132    | 5250             | 4 76             |  |       |   |       |   |       |   |       |   |       | 656,000   | 655   | 650,000   | 655   |
| 138    | 5500             | 5 22             |  |       |   |       |   |       |   |       |   |       | 690,000   | 760   | 685,000   | 750   |
| 145    | 5750             | 5 71             |  |       |   |       |   |       |   |       |   |       |   |       | 720,000   | 860   |

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure<br>1" Water<br>.578 ozs. per sq. inch | Static Pressure<br>1 1/4" Water<br>.723 ozs. per sq. inch | Static Pressure<br>1 1/2" Water<br>.878 ozs. per sq. inch | Static Pressure<br>1 3/4" Water<br>1.01 ozs. per sq. inch | Static Pressure<br>2" Water<br>1.16 ozs. per sq. inch | Static Pressure<br>2 1/2" Water<br>1.45 ozs. per sq. inch | Static Pressure<br>3" Water<br>1.73 ozs. per sq. inch |
|--------|------------------|------------------|---|---|---|---|---|---|---|
| 75     | 3000             | 1 55             | 249,000   | 74  |   |   |   |   |   |
| 80     | 3200             | 1 77             | 308,000   | 105   | 208,000   | 72  |   |   |   |
| 85     | 3400             | 2 00             | 353,000   | 140   | 294,000   | 115   |   |   |   |
| 90     | 3600             | 2 24             | 392,000   | 175   | 348,000   | 150   | 276,000   | 120   |   |
| 95     | 3800             | 2 49             | 426,000   | 215   | 394,000   | 195   | 345,000   | 165   | 254,000   |
| 101    | 4000</           |                  |   |   |   |   |   |   |   |

Double Inlet

## Size "A" Supervane Fan—Design 1

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. |
|--------|------------------|------------------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|
|        |                  |                  | Static Pressure 1/2" Water .0722 ozs. per sq. inch  |       | Static Pressure 1/2" Water .145 ozs. per sq. inch   |       | Static Pressure 3/4" Water .217 ozs. per sq. inch   |       | Static Pressure 1" Water .289 ozs. per sq. inch     |       | Static Pressure 1 1/4" Water .361 ozs. per sq. inch |       | Static Pressure 1 1/2" Water .434 ozs. per sq. inch |       | Static Pressure 1 3/4" Water .506 ozs. per sq. inch |       |
| 293    | 1000             | 0.171            | 658   | 0.024 |   |       |   |       |   |       |   |       |   |       |   |       |
| 352    | 1200             | 0.216            | 1,080   | 0.062 |   |       |   |       |   |       |   |       |   |       |   |       |
| 411    | 1400             | 0.334            | 1,410   | 0.115 |   |       |   |       |   |       |   |       |   |       |   |       |
| 469    | 1600             | 0.436            | 1,750   | 0.195 | 891   | 0.065 |   |       |   |       |   |       |   |       |   |       |
|        |                  |                  | 1,310   | 0.135 |   |       |   |       |   |       |   |       |   |       |   |       |
| 528    | 1800             | 0.552            | 2,060   | 0.295 | 1,720   | 0.225 | 1,300   | 0.160 |   |       |   |       |   |       |   |       |
| 586    | 2000             | 0.682            |   |       | 2,060   | 0.345 | 1,720   | 0.275 | 1,320   | 0.195 |   |       |   |       |   |       |
| 645    | 2200             | 0.825            |   |       | 2,390   | 0.495 | 2,100   | 0.415 | 1,750   | 0.33  | 1,370   | 0.245 |   |       |   |       |
| 704    | 2400             | 0.981            |   |       | 2,700   | 0.67  | 2,440   | 0.58  | 2,170   | 0.50  | 1,850   | 0.415 | 1,470   | 0.31  |   |       |
| 763    | 2600             | 1.15             |   |       |   |       | 2,770   | 0.79  | 2,530   | 0.70  | 2,260   | 0.61  | 1,970   | 0.51  | 1,610   | 0.40  |
| 821    | 2800             | 1.34             |   |       | 3,000   | 0.89  | 3,080   | 1.05  | 2,870   | 0.94  | 2,640   | 0.84  | 2,380   | 0.74  | 2,110   | 0.64  |
| 880    | 3000             | 1.54             |   |       |   |       | 3,390   | 1.35  | 3,190   | 1.20  | 3,000   | 1.10  | 2,770   | 1.00  | 2,520   | 0.89  |
| 939    | 3200             | 1.75             |   |       |   |       | 3,690   | 1.7   | 3,520   | 1.55  | 3,330   | 1.45  | 3,120   | 1.30  | 2,900   | 1.20  |
| 998    | 3400             | 1.97             |   |       |   |       |   |       | 3,820   | 1.95  | 3,650   | 1.8   | 3,470   | 1.65  | 3,270   | 1.55  |
| 1058   | 3600             | 2.21             |   |       |   |       |   |       | 4,120   | 2.35  | 3,980   | 2.2   | 3,800   | 2.10  | 3,610   | 1.95  |
| 1114   | 3800             | 2.46             |   |       |   |       |   |       | 4,410   | 2.8   | 4,260   | 2.7   | 4,110   | 2.55  | 3,960   | 2.40  |
| 1173   | 4000             | 2.73             |   |       |   |       |   |       |   |       | 4,560   | 3.2   | 4,420   | 3.05  | 4,270   | 2.90  |
| 1231   | 4200             | 3.01             |   |       |   |       |   |       |   |       | 4,800   | 3.8   | 4,730   | 3.65  | 4,580   | 3.50  |
| 1290   | 4400             | 3.30             |   |       |   |       |   |       |   |       |   |       | 5,040   | 4.3   | 4,900   | 4.10  |
| 1350   | 4600             | 3.61             |   |       |   |       |   |       |   |       |   |       | 5,330   | 5     | 5,210   | 4.85  |
| 1409   | 4800             | 3.93             |   |       |   |       |   |       |   |       |   |       |   |       | 5,500   | 5.6   |
|        |                  |                  |   |       |   |       |   |       |   |       |   |       |   |       |   |       |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 ozs. per sq. inch     |       | Static Pressure 1 1/4" Water .723 ozs. per sq. inch |       | Static Pressure 1 1/2" Water .878 ozs. per sq. inch |       | Static Pressure 1 3/4" Water 1.01 ozs. per sq. inch |       | Static Pressure 2" Water 1.16 ozs. per sq. inch     |       | Static Pressure 2 1/4" Water 1.45 ozs. per sq. inch |       | Static Pressure 2 1/2" Water 1.73 ozs. per sq. inch |       |
| 821    | 2800             | 1.34             | 1,790   | 0.52  |   |       |   |       |   |       |   |       |   |       |   |       |
| 880    | 3000             | 1.54             | 2,270   | 0.79  | 1,460   | 0.485 |   |       |   |       |   |       |   |       |   |       |
| 939    | 3200             | 1.75             | 2,680   | 1.10  | 2,180   | 0.84  |   |       |   |       |   |       |   |       |   |       |
| 998    | 3400             | 1.97             | 3,080   | 1.45  | 2,630   | 1.20  | 2,100   | 0.89  |   |       |   |       |   |       |   |       |
| 1058   | 3600             | 2.21             | 3,430   | 1.80  | 3,040   | 1.55  | 2,610   | 1.30  | 2,020   | 0.95  |   |       |   |       |   |       |
| 1114   | 3800             | 2.46             | 3,790   | 2.25  | 3,430   | 2.0   | 3,040   | 1.70  | 2,600   | 1.40  | 1,850   | 0.98  |   |       |   |       |
| 1173   | 4000             | 2.73             | 4,130   | 2.75  | 3,810   | 2.5   | 3,450   | 2.20  | 3,070   | 1.90  | 2,630   | 1.55  |   |       |   |       |
| 1231   | 4200             | 3.01             | 4,450   | 3.30  | 4,150   | 3.0   | 3,830   | 2.70  | 3,480   | 2.40  | 3,100   | 2.10  |   |       |   |       |
| 1290   | 4400             | 3.30             | 4,760   | 3.95  | 4,480   | 3.6   | 4,200   | 3.30  | 3,880   | 3.00  | 3,510   | 2.65  | 2,750   | 1.95  |   |       |
| 1350   | 4600             | 3.61             | 5,090   | 4.65  | 4,810   | 4.3   | 4,550   | 3.95  | 4,260   | 3.65  | 3,940   | 3.30  | 3,270   | 2.65  |   |       |
| 1409   | 4800             | 3.93             | 5,380   | 5.4   | 5,150   | 5.0   | 4,870   | 4.65  | 4,620   | 4.35  | 4,340   | 4.00  | 3,720   | 3.3   | 2,940   | 2.50  |
| 1469   | 5000             | 4.26             | 5,700   | 6.3   | 5,460   | 5.8   | 5,210   | 5.5   | 4,970   | 5.1   | 4,700   | 4.75  | 4,130   | 4.1   | 3,480   | 3.30  |
| 1540   | 5250             | 4.70             | 6,060   | 7.4   | 5,850   | 7.0   | 5,630   | 6.6   | 5,380   | 6.2   | 5,160   | 5.8   | 4,610   | 5.1   | 4,050   | 4.35  |
| 1614   | 5500             | 5.16             |   |       | 6,230   | 8.2   | 6,000   | 7.8   | 5,810   | 7.4   | 5,590   | 7.0   | 5,090   | 6.2   | 4,550   | 5.4   |
| 1689   | 5750             | 5.64             |   |       | 6,600   | 9.6   | 6,400   | 9.2   | 6,190   | 8.7   | 5,990   | 8.3   | 5,520   | 7.5   | 5,060   | 6.6   |
| 1761   | 6000             | 6.14             |   |       | 6,970   | 11    | 6,780   | 10.5  | 6,600   | 10.0  | 6,400   | 9.8   | 5,990   | 8.9   | 5,540   | 8.0   |
| 1834   | 6250             | 6.66             |   |       |   |       | 7,150   | 12.5  | 6,990   | 12.0  | 6,780   | 11.5  | 6,400   | 10.5  | 5,990   | 9.5   |
| 1908   | 6500             | 7.20             |   |       |   |       | 7,530   | 14    | 7,350   | 13.5  | 7,170   | 13    | 6,820   | 12.0  | 6,420   | 11.0  |
| 1980   | 6750             | 7.76             |   |       |   |       |   |       | 8,730   | 15.5  | 7,570   | 15    | 7,210   | 14.0  | 6,850   | 13.0  |
| 2055   | 7000             | 8.85             |   |       |   |       |   |       | 8,100   | 17.5  |   |       | 7,600   | 16.0  | 7,270   | 15.0  |
| 2200   | 7500             | 9.59             |   |       |   |       |   |       |   |       | 8,700   | 22    | 8,380   | 20.5  | 8,070   | 19.5  |
| 2345   | 8000             | 10.91            |   |       |   |       |   |       |   |       |   |       | 9,150   | 26    | 8,850   | 24.5  |
| 2495   | 8500             | 12.32            |   |       |   |       |   |       |   |       |   |       | 9,880   | 32    | 9,620   | 30    |
| 2640   | 9000             | 13.81            |   |       |   |       |   |       |   |       |   |       |   |       | 10,400  | 37    |
| 2788   | 9500             | 15.40            |   |       |   |       |   |       |   |       |   |       |   |       | 11,100  | 45    |
| 2940   | 10000            | 17.05            |   |       |   |       |   |       |   |       |   |       |   |       |   |       |
|        |                  |                  |   |       |   |       |   |       |   |       |   |       |   |       |   |       |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 3 1/2" Water 2.02 ozs. per sq. inch |       | Static Pressure 4" Water 2.31 ozs. per sq. inch     |       | Static Pressure 5" Water 2.89 ozs. per sq. inch     |       | Static Pressure 6" Water 3.47 ozs. per sq. inch     |       | Static Pressure 7" Water 4.05 ozs. per sq. inch     |       | Static Pressure 8" Water 4.63 ozs. per sq. inch     |       | Static Pressure 9" Water 5.2 ozs. per sq. inch      |       |
| 1540   | 5250             | 4.70             | 3,300   | 3.35  |   |       |   |       |   |       |   |       |   |       |   |       |
| 1614   | 5500             | 5.16             | 3,990   | 4.55  | 3,290   | 3.6   |   |       |   |       |   |       |   |       |   |       |
| 1689   | 5750             | 5.64             | 4,530   | 5.8   | 3,960   | 4.9   |   |       |   |       |   |       |   |       |   |       |
| 1761   | 6000             | 6.14             | 5,010   | 7.1   | 4,530   | 6.2   | 2,880   | 3.85  |   |       |   |       |   |       |   |       |
| 1834   | 6250             | 6.66             | 5,550   | 8.6   | 5,070   | 7.7   | 3,960   | 5.7   |   |       |   |       |   |       |   |       |
| 1908   | 6500             | 7.20             | 6,010   | 10.0  | 5,560   | 9.3   | 4,590   | 7.4   |   |       |   |       |   |       |   |       |
| 1980   | 6750             | 7.76             | 6,460   | 12.0  | 6,050   | 11.0  | 5,150   | 9.1   | 4,050   | 6.8   |   |       |   |       |   |       |
| 2055   | 7000             | 8.85             | 6,830   | 13.5  | 6,520   | 12.5  | 5,690   | 11    | 4,740   | 8.7   |   |       |   |       |   |       |
| 2200   | 7500             | 9.59             | 7,750   | 18    | 7,410   | 17    | 6,680   | 15    | 5,870   | 13.0  | 4,950   | 10.5  |   |       |   |       |
| 2345   | 8000             | 10.91            | 8,560   | 23    | 8,250   | 22    | 7,620   | 20    | 6,900   | 17.5  | 6,150   | 15.0  | 5,260   | 12.5  |   |       |
| 2495   | 8500             | 12.32            | 9,350   | 29    | 9,060   | 27    | 8,480   | 25    | 7,840   | 23    | 7,160   | 20.5  | 6,440   | 18    | 5,600   | 15.0  |
| 2640   | 9000             | 13.81            | 10,100  | 35    | 9,850   | 34    | 9,300   | 32    | 8,750   | 29    | 8,160   | 27    | 7,500   | 24    | 6,800   | 21.5  |
| 2788   | 9500             | 15.40            | 10,900  | 43    | 10,600  | 41    | 10,100  | 39    | 9,600   | 36    | 9,080   | 33    | 8,500   | 31    | 7,850   | 28    |
| 2940   | 10000            | 17.05            | 11,600  | 50    | 11,400  | 50    | 10,900  | 47    | 10,400  | 44    | 9,830   | 41    | 9,300   | 38    | 8,840   | 35    |

### Single Width

**When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances**

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M. H. P. Static Pressure 1/4" Water .0722 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1/2" Water .145 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 3/4" Water .217 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1" Water .289 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1 1/4" Water .361 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1 1/2" Water .434 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1 3/4" Water .506 ozs. per sq. inch |
|--------|------------------|------------------|--|---|---|---|---|---|---|
| 239    | 1000             | 0 171            | .997   | 0.037   |   |   |   |   |   |
| 287    | 1200             | 0 216            | 1.610  | 0 095   |   |   |   |   |   |
| 335    | 1400             | 0 334            | 2.180  | 0 175   | 1.350   | 0.098   |   |   |   |
| 382    | 1600             | 0 436            | 2.660  | 0 295   | 2.030   | 0.205   |   |   |   |
| 430    | 1800             | 0 552            | 3.130  | 0 415   | 2.610   | 0 345   | 1.980   | 0.245   |   |
| 477    | 2000             | 0 682            |  |   | 3.130   | 0 52  | 2.615   | 0.415   |   |
| 525    | 2200             | 0 825            |  |   | 3.620   | 0 75  | 3.190   | 0 63  |   |
| 573    | 2400             | 0 981            |  |   | 4.080   | 1 00  | 3.690   | 0.88  |   |
| 621    | 2600             | 1 15             |  |   | 4.540   | 1.35  | 4.200   | 1 25  |   |
| 668    | 2800             | 1 31             |  |   |   |   | 4.680   | 1 6   |   |
| 717    | 3000             | 1 54             |  |   |   |   | 5.140   | 2 0   |   |
| 761    | 3200             | 1 75             |  |   |   |   | 5.600   | 2 6   |   |
| 811    | 3400             | 1 97             |  |   |   |   | 5.330   | 2 35  |   |
| 860    | 3600             | 2 21             |  |   |   |   | 5.790   | 2 90  |   |
| 909    | 3800             | 2 46             |  |   |   |   | 6.210   | 3 55  |   |
| 955    | 4000             | 2 73             |  |   |   |   | 6.690   | 4 3   |   |
| 1002   | 4200             | 3 01             |  |   |   |   |   |   |   |
| 1051   | 4400             | 3 30             |  |   |   |   |   |   |   |
| 1099   | 4600             | 3 61             |  |   |   |   |   |   |   |
| 1148   | 4800             | 3 93             |  |   |   |   |   |   |   |
| 608    | 2800             | 1.34             | 2.710  | 0.79  |   |   |   |   |   |
| 717    | 3000             | 1.54             | 3.440  | 1.20  | 2.220   | 0.73  |   |   |   |
| 764    | 3200             | 1.75             | 4.000  | 1.65  | 3.310   | 1.25  |   |   |   |
| 811    | 3400             | 1.97             | 4.680  | 2.15  | 3.990   | 1.80  | 3.190   | 1.35  |   |
| 860    | 3600             | 2.21             | 5.200  | 2.75  | 4.620   | 2.35  | 3.950   | 1.95  |   |
| 909    | 3800             | 2.46             | 5.740  | 3.4   | 5.200   | 3.00  | 4.600   | 2.6   |   |
| 955    | 4000             | 2.73             | 6.250  | 4.2   | 5.770   | 3.75  | 5.230   | 3.3   |   |
| 1002   | 4200             | 3.01             | 6.740  | 5.0   | 6.290   | 4.55  | 5.800   | 4.1   |   |
| 1051   | 4400             | 3.30             | 7.220  | 6.0   | 6.800   | 5.5   | 6.370   | 5.0   |   |
| 1099   | 4600             | 3.61             | 7.710  | 7.0   | 7.310   | 6.5   | 6.890   | 6.0   |   |
| 1148   | 4800             | 3.93             | 8.150  | 8.2   | 7.800   | 7.6   | 7.390   | 7.1   |   |
| 1195   | 5000             | 4.26             | 8.630  | 9.5   | 8.290   | 8.9   | 7.900   | 8.3   |   |
| 1254   | 5250             | 4.70             | 9.190  | 11.5  | 8.880   | 10.5  | 8.530   | 10.0  |   |
| 1313   | 5500             | 5.16             |  |   | 9.450   | 12.5  | 9.110   | 12.0  |   |
| 1374   | 5750             | 5.64             |  |   | 10.000  | 14.5  | 9.710   | 14.0  |   |
| 1432   | 6000             | 6.14             |  |   | 10.600  | 17  | 10.300  | 16.0  |   |
| 1492   | 6250             | 6.66             |  |   |   |   | 10.800  | 18.5  |   |
| 1552   | 6500             | 7.20             |  |   |   |   | 11.400  | 21.5  |   |
| 1610   | 6750             | 7.76             |  |   |   |   |   |   |   |
| 1671   | 7000             | 8.85             |  |   |   |   |   |   |   |
| 1791   | 7500             | 9.59             |  |   |   |   |   |   |   |
| 1910   | 8000             | 10.91            |  |   |   |   |   |   |   |
| 2030   | 8500             | 12.32            |  |   |   |   |   |   |   |
| 2150   | 9000             | 13.81            |  |   |   |   |   |   |   |
| 2270   | 9500             | 15.40            |  |   |   |   |   |   |   |
| 2390   | 10000            | 17.05            |  |   |   |   |   |   |   |
| 1254   | 5250             | 4.70             | 5.000  | 5.1   |   |   |   |   |   |
| 1313   | 5500             | 5.16             | 6.050  | 7.0   | 4.990   | 5.5   |   |   |   |
| 1374   | 5750             | 5.64             | 6.860  | 8.8   | 6.000   | 7.5   |   |   |   |
| 1432   | 6000             | 6.14             | 7.640  | 11.0  | 6.860   | 9.5   | 4.370   | 5.8   |   |
| 1492   |                  |                  |  |   |   |   |   |   |   |

Double Inlet

## Size "C" Supervane Fan—Design 1

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.  | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. |
|--------|------------------|------------------|--|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|
|        |                  |                  | Static Pressure 1 1/2" Water .0722 ozs. per sq. inch |       | Static Pressure 1 1/2" Water .145 ozs. per sq. inch |       | Static Pressure 1 1/2" Water .217 ozs. per sq. inch |       | Static Pressure 1 1/2" Water .289 ozs. per sq. inch |       | Static Pressure 1 1/2" Water .361 ozs. per sq. inch |       | Static Pressure 1 1/2" Water .434 ozs. per sq. inch |       | Static Pressure 1 1/2" Water .506 ozs. per sq. inch |       |
| 201    | 1000             | 0 171            | 1,410  | 0.053 |   |       |   |       |   |       |   |       |   |       |   |       |
| 241    | 1200             | 0 246            | 2,320  | 0 135 |   |       |   |       |   |       |   |       |   |       |   |       |
| 281    | 1400             | 0 334            | 3,070  | 0 250 | 1,910   | 0 140 |   |       |   |       |   |       |   |       |   |       |
| 322    | 1600             | 0 436            | 3,750  | 0 415 | 2,870   | 0 290 |   |       |   |       |   |       |   |       |   |       |
| 362    | 1800             | 0 552            | 4,410  | 0 63  | 3,680   | 0 485 | 2,790   | 0 345 |   |       |   |       |   |       |   |       |
| 402    | 2000             | 0 682            |  |       | 4,420   | 0 74  | 3,680   | 0 58  | 2,820   | 0 42  |   |       |   |       |   |       |
| 442    | 2200             | 0 825            |  |       | 5,110   | 1.05  | 4,500   | 0 88  | 3,760   | 0 71  | 2,940   | 0 53  |   |       |   |       |
| 482    | 2400             | 0 981            |  |       | 5,770   | 1 45  | 5,220   | 1 25  | 4,640   | 1 05  | 3,960   | 0 88  | 3,140   | 0 66  |   |       |
| 522    | 2600             | 1 15             |  |       | 6,410   | 1 9   | 5,930   | 1 70  | 5,420   | 1 50  | 4,830   | 1 30  | 4,210   | 1 10  | 3,450   | 0 80  |
| 563    | 2800             | 1 31             |  |       |   |       | 6,600   | 2 25  | 6,150   | 2 00  | 5,680   | 1 80  | 5,090   | 1 60  | 4,520   | 1 35  |
| 604    | 3000             | 1 54             |  |       |   |       | 7,250   | 2 85  | 6,830   | 2 60  | 6,410   | 2 35  | 5,930   | 2 15  | 5,380   | 1 90  |
| 644    | 3200             | 1 75             |  |       |   |       | 7,910   | 3 65  | 7,520   | 3 30  | 7,130   | 3 05  | 6,700   | 2 80  | 6,210   | 2 55  |
| 684    | 3400             | 1 97             |  |       |   |       |   |       | 8,160   | 4 15  | 7,820   | 3 85  | 7,420   | 3 55  | 7,000   | 3 30  |
| 724    | 3600             | 2 21             |  |       |   |       |   |       | 8,810   | 5 0   | 8,480   | 4 75  | 8,140   | 4 45  | 7,740   | 4 15  |
| 764    | 3800             | 2 46             |  |       |   |       |   |       | 9,440   | 6 1   | 9,110   | 5 8   | 8,800   | 5 4   | 8,470   | 5 1   |
| 804    | 4000             | 2 73             |  |       |   |       |   |       |   |       | 9,790   | 6 9   | 9,460   | 6 6   | 9,160   | 6 2   |
| 845    | 4200             | 3 01             |  |       |   |       |   |       |   |       | 10,400  | 8 2   | 10,100  | 7 8   | 9,820   | 7 4   |
| 885    | 4400             | 3 30             |  |       |   |       |   |       |   |       |   |       | 10,800  | 9 2   | 10,500  | 8 8   |
| 925    | 4600             | 3 61             |  |       |   |       |   |       |   |       |   |       | 11,400  | 10 5  | 11,200  | 10 5  |
| 965    | 4800             | 3 93             |  |       |   |       |   |       |   |       |   |       |   |       | 11,800  | 12    |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1 1/2" Water .578 ozs. per sq. inch  |       | Static Pressure 1 1/2" Water .723 ozs. per sq. inch |       | Static Pressure 1 1/2" Water .878 ozs. per sq. inch |       | Static Pressure 1 1/2" Water 1.01 ozs. per sq. inch |       | Static Pressure 1 1/2" Water 1.16 ozs. per sq. inch |       | Static Pressure 1 1/2" Water 1.48 ozs. per sq. inch |       | Static Pressure 1 1/2" Water 1.73 ozs. per sq. inch |       |
| 563    | 2800             | 1 34             | 3,820  | 1 10  |   |       |   |       |   |       |   |       |   |       |   |       |
| 604    | 3000             | 1 54             | 4,850  | 1 70  | 3,130   | 1 05  |   |       |   |       |   |       |   |       |   |       |
| 644    | 3200             | 1 75             | 5,730  | 2 30  | 4,680   | 1 80  |   |       |   |       |   |       |   |       |   |       |
| 684    | 3400             | 1 97             | 6,590  | 3 05  | 5,640   | 2 55  | 4,500   | 1 90  |   |       |   |       |   |       |   |       |
| 724    | 3600             | 2 21             | 7,350  | 3 9   | 6,520   | 3 35  | 5,580   | 2 75  | 4,310   | 2 05  |   |       |   |       |   |       |
| 764    | 3800             | 2 46             | 8,110  | 4 8   | 7,350   | 4 25  | 6,500   | 3 65  | 5,560   | 3 05  | 3,960   | 2 10  |   |       |   |       |
| 804    | 4000             | 2 73             | 8,830  | 5 9   | 8,150   | 5 3   | 7,390   | 4 7   | 6,570   | 4 05  | 5,630   | 3 35  |   |       |   |       |
| 845    | 4200             | 3 01             | 9,520  | 7 1   | 8,890   | 6 5   | 8,190   | 5 8   | 7,450   | 5 2   | 6,650   | 4 5   |   |       |   |       |
| 885    | 4400             | 3 30             | 10,200   | 8 4   | 9,600   | 7 7   | 8,990   | 7 1   | 8,300   | 6 4   | 7,500   | 5 7   | 5,870   | 4 2   |   |       |
| 925    | 4600             | 3 61             | 10,900   | 10 0  | 10,300  | 9 2   | 9,740   | 8 5   | 9,120   | 7 8   | 8,440   | 7 1   | 6,990   | 5 6   |   |       |
| 965    | 4800             | 3 93             | 11,500   | 11 5  | 11,000  | 11 0  | 10,400  | 10 0  | 9,900   | 9 3   | 9,290   | 8 5   | 7,950   | 7 1   | 6,290   | 5 3   |
| 1005   | 5000             | 4 26             | 12,200   | 13 5  | 11,700  | 12 5  | 11,200  | 11 5  | 10,600  | 11 0  | 10,000  | 10 2  | 8,840   | 8 7   | 7,440   | 7 0   |
| 1055   | 5250             | 4 70             | 13,000   | 16    | 12,500  | 15 0  | 12,000  | 14 0  | 11,500  | 13 5  | 11,000  | 12 5  | 9,880   | 11 0  | 8,660   | 9 3   |
| 1106   | 5500             | 5 16             |  |       | 13,300  | 17 5  | 12,900  | 16 5  | 12,400  | 16 0  | 11,900  | 15 0  | 10,900  | 13 5  | 9,750   | 11 5  |
| 1155   | 5750             | 5 64             |  |       | 14,100  | 20 5  | 13,700  | 19 5  | 13,300  | 18 5  | 12,800  | 17 5  | 11,900  | 16    | 10,800  | 14 0  |
| 1205   | 6000             | 6 14             |  |       | 14,900  | 24    | 14,500  | 23    | 14,100  | 22    | 13,700  | 21    | 12,800  | 19    | 11,800  | 17 0  |
| 1258   | 6250             | 6 66             |  |       |   |       | 15,300  | 26    | 15,000  | 26    | 14,500  | 24    | 13,700  | 22    | 12,800  | 20 5  |
| 1307   | 6500             | 7 20             |  |       |   |       | 16,100  | 30    | 15,700  | 29    | 15,300  | 28    | 14,600  | 26    | 13,700  | 24    |
| 1358   | 6750             | 7 76             |  |       |   |       |   |       | 16,500  | 33    | 16,200  | 32    | 15,400  | 30    | 14,700  | 28    |
| 1408   | 7000             | 8 85             |  |       |   |       |   |       | 17,400  | 38    | 17,000  | 37    | 16,300  | 34    | 15,500  | 32    |
| 1509   | 7500             | 9 59             |  |       |   |       |   |       |   |       | 18,900  | 47    | 18,000  | 44    | 17,300  | 41    |
| 1609   | 8000             | 10 91            |  |       |   |       |   |       |   |       |   |       | 19,600  | 56    | 19,000  | 52    |
| 1710   | 8500             | 12 32            |  |       |   |       |   |       |   |       |   |       | 21,100  | 68    | 20,600  | 66    |
| 1810   | 9000             | 13 81            |  |       |   |       |   |       |   |       |   |       |   |       | 22,200  | 80    |
| 1910   | 9500             | 15 40            |  |       |   |       |   |       |   |       |   |       |   |       | 23,800  | 96    |
| 2010   | 10000            | 17 05            |  |       |   |       |   |       |   |       |   |       |   |       |   |       |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 3 1/2" Water 2.02 ozs. per sq. inch  |       | Static Pressure 4" Water 2.31 ozs. per sq. inch     |       | Static Pressure 5" Water 2.89 ozs. per sq. inch     |       | Static Pressure 6" Water 3.47 ozs. per sq. inch     |       | Static Pressure 7" Water 4.05 ozs. per sq. inch     |       | Static Pressure 8" Water 4.63 ozs. per sq. inch     |       | Static Pressure 9" Water 5.2 ozs. per sq. inch      |       |
| 1055   | 5250             | 4 70             | 7,060  | 7 2   |   |       |   |       |   |       |   |       |   |       |   |       |
| 1106   | 5500             | 5 16             | 8,530  | 9 9   | 7,040   | 7 8   |   |       |   |       |   |       |   |       |   |       |
| 1155   | 5750             | 5 64             | 9,710  | 12 5  | 8,460   | 10 5  |   |       |   |       |   |       |   |       |   |       |
| 1205   | 6000             | 6 14             | 10,800   | 15 5  | 9,680   | 13 5  | 6,160   | 8 2   |   |       |   |       |   |       |   |       |
| 1258   | 6250             | 6 66             | 11,900   | 18 5  | 10,800  | 16 5  | 8,450   | 12 0  |   |       |   |       |   |       |   |       |
| 1307   | 6500             | 7 20             | 12,900   | 22    | 11,900  | 20    | 9,820   | 16 0  |   |       |   |       |   |       |   |       |
| 1358   | 6750             | 7 76             | 13,800   | 26    | 12,900  | 24    | 11,000  | 19 5  | 8,660   | 14 5  |   |       |   |       |   |       |
| 1408   | 7000             | 8 85             | 14,800   | 30    | 13,900  | 28    | 12,200  | 23 5  | 10,100  | 18 5  |   |       |   |       |   |       |
| 1509   | 7500             | 9 59             | 16,600   | 39    | 15,900  | 37    | 14,300  | 32    | 12,600  | 27    | 10,600  | 22 5  |   |       |   |       |
| 1609   | 8000             | 10 91            | 18,300   | 50    | 17,700  | 47    | 16,300  | 42    | 14,800  | 37    | 13,100  | 32    | 11,300  | 27    |   |       |
| 1710   | 8500             | 12 32            | 20,000   | 62    | 19,400  | 60    | 18,200  | 54    | 16,800  | 49    | 15,300  | 44    | 13,800  | 38    | 12,000  | 32    |
| 1810   | 9000             | 13 81            | 21,600   | 76    | 21,100  | 74    | 19,900  | 68    | 18,700  | 62    | 17,400  | 56    | 16,000  | 52    | 14,500  | 46    |
| 1910   | 9500             | 15 40            | 23,300   | 92    | 22,800  | 90    | 21,700  | 84    | 20,500  | 76    | 19,400  | 72    | 18,200  | 66    | 16,800  | 60    |
| 2010   | 10000            | 17 05            | 24,800   | 110   | 24,400  | 105   | 23,400  | 100   | 22,300  | 94    | 21,200  | 88    | 20,100  | 82    | 18,900  | 76    |

# Double Inlet Size "D" Supervane Fan—Design 1 Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M. H. P. Static Pressure 1/2" Water .0722 oza. per sq. inch | Volume C.F.M. H. P. Static Pressure 3/4" Water .145 oza. per sq. inch | Volume C.F.M. H. P. Static Pressure 1" Water .217 oza. per sq. inch | Volume C.F.M. H. P. Static Pressure 1 1/4" Water .289 oza. per sq. inch | Volume C.F.M. H. P. Static Pressure 1 1/2" Water .361 oza. per sq. inch | Volume C.F.M. H. P. Static Pressure 1 3/4" Water .434 oza. per sq. inch | Volume C.F.M. H. P. Static Pressure 2" Water .506 oza. per sq. inch |
|--------|------------------|------------------|--|---|---|---|---|---|---|
| 173    | 1000             | 0.171            | 1,890 0.070  |   |   |   |   |   |   |
| 208    | 1200             | 0.216            | 3,110 0.180  |   |   |   |   |   |   |
| 242    | 1400             | 0.334            | 4,120 0.335  | 2,560 0.185   |   |   |   |   |   |
| 278    | 1600             | 0.436            | 5,030 0.55   | 3,850 0.385   |   |   |   |   |   |
| 312    | 1800             | 0.552            | 5,920 0.84   | 4,940 0.65  | 3,740 0.465   |   |   |   |   |
| 347    | 2000             | 0.682            |  | 5,920 0.99  | 4,940 0.78  | 3,780 0.56  |   |   |   |
| 382    | 2200             | 0.825            |  | 6,850 1.40  | 6,040 1.20  | 5,030 0.95  | 3,950 0.70  |   |   |
| 417    | 2400             | 0.981            |  | 7,740 1.95  | 7,000 1.65  | 6,230 1.45  | 5,310 1.20  | 4,210 0.80  |   |
| 451    | 2600             | 1.15             |  | 8,600 2.6   | 7,950 2.25  | 7,270 2.00  | 6,480 1.75  | 5,640 1.45  | 4,620 1.15  |
| 486    | 2800             | 1.34             |  |   | 8,850 3.0   | 8,260 2.70  | 7,600 2.4   | 6,840 2.10  | 6,060 1.85  |
| 520    | 3000             | 1.51             |  |   | 9,730 3.8   | 9,160 3.50  | 8,600 3.2   | 7,950 2.85  | 7,220 2.55  |
| 555    | 3200             | 1.75             |  |   | 10,600 4.9  | 10,100 4.45   | 9,550 4.1   | 8,990 3.75  | 8,310 3.40  |
| 590    | 3400             | 1.97             |  |   |   | 11,000 5.6  | 10,500 5.2  | 9,960 4.8   | 9,400 4.45  |
| 625    | 3600             | 2.21             |  |   |   | 11,800 6.8  | 11,400 6.3  | 10,900 6.0  | 10,400 5.6  |
| 659    | 3800             | 2.46             |  |   |   | 12,600 8.1  | 12,200 7.7  | 11,800 7.3  | 11,400 6.8  |
| 695    | 4000             | 2.73             |  |   |   |   | 13,100 9.2  | 12,700 8.8  | 12,300 8.3  |
| 730    | 4200             | 3.01             |  |   |   |   | 14,000 11   | 13,600 10.5   | 13,200 10.0   |
| 764    | 4400             | 3.30             |  |   |   |   |   | 14,500 12.5   | 14,100 12.0   |
| 799    | 4600             | 3.61             |  |   |   |   |   | 15,300 14.5   | 15,000 14.0   |
| 833    | 4800             | 3.93             |  |   |   |   |   |   | 15,800 16.0   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 oza. per sq. inch                        | Static Pressure 1 1/4" Water .723 oza. per sq. inch                   | Static Pressure 1 1/2" Water .875 oza. per sq. inch                 | Static Pressure 1 3/4" Water 1.01 oza. per sq. inch                     | Static Pressure 2" Water 1.16 oza. per sq. inch                         | Static Pressure 2 1/2" Water 1.45 oza. per sq. inch                     | Static Pressure 3" Water 1.73 oza. per sq. inch                     |
| 486    | 2800             | 1.34             | 5,130 1.50   |   |   |   |   |   |   |
| 520    | 3000             | 1.54             | 6,500 2.25   | 4,190 1.40  |   |   |   |   |   |
| 555    | 3200             | 1.75             | 7,690 3.1  | 6,200 2.40  |   |   |   |   |   |
| 590    | 3400             | 1.97             | 8,840 4.1  | 7,540 3.40  | 6,040 2.55  |   |   |   |   |
| 625    | 3600             | 2.21             | 9,860 5.2  | 8,740 4.45  | 7,480 3.7   |   |   |   |   |
| 659    | 3800             | 2.46             | 10,900 6.5   | 9,860 5.7   | 8,710 4.9   | 5,780 2.70  |   |   |   |
| 695    | 4000             | 2.73             | 11,800 7.9   | 10,900 7.1  | 9,910 6.3   | 7,450 4.05  | 5,310 2.8   |   |   |
| 730    | 4200             | 3.01             | 12,800 9.5   | 11,900 8.6  | 11,000 7.8  | 8,800 5.5   | 7,550 4.5   |   |   |
| 764    | 4400             | 3.30             | 13,700 11.5  | 12,900 10.5   | 12,000 9.5  | 10,000 6.9  | 8,900 6.0   |   |   |
| 799    | 4600             | 3.61             | 14,600 13.5  | 13,800 12.5   | 13,000 11.5   | 11,100 8.6  | 10,100 7.6  | 7,870 5.6   |   |
| 833    | 4800             | 3.93             | 15,400 15.5  | 14,800 14.5   | 14,000 13.5   | 12,200 10.5   | 11,300 9.5  | 9,360 7.6   |   |
| 868    | 5000             | 4.26             | 16,400 18.0  | 15,700 17.0   | 15,000 15.5   | 13,300 12.5   | 12,400 11.5   | 10,700 9.5  | 8,430 7.1   |
| 911    | 5250             | 4.70             | 17,400 21.5  | 16,800 20.0   | 16,100 19.0   | 14,300 14.5   | 13,500 13.5   | 11,900 11.5   | 9,980 9.4   |
| 955    | 5500             | 5.16             |  | 17,900 23.5   | 17,300 22.5   | 15,400 17.5   | 14,800 16.5   | 13,200 14.5   | 11,600 12.5   |
| 998    | 5750             | 5.64             |  | 18,900 28   | 18,400 26   | 16,700 21.5   | 16,000 20   | 14,600 18   | 13,100 15.5   |
| 1041   | 6000             | 6.14             |  | 20,000 32   | 19,500 31   | 17,800 25   | 17,200 24   | 15,900 21   | 14,500 19   |
| 1086   | 6250             | 6.66             |  |   | 20,500 35   | 18,000 29   | 18,400 28   | 17,200 25   | 15,900 23   |
| 1129   | 6500             | 7.20             |  |   | 21,600 41   | 20,000 34   | 19,500 33   | 18,400 30   | 17,200 27   |
| 1171   | 6750             | 7.76             |  |   |   | 21,100 39   | 20,600 38   | 19,600 35   | 18,400 32   |
| 1215   | 7000             | 8.85             |  |   |   | 22,200 44   | 21,700 43   | 20,700 40   | 19,700 37   |
| 1302   | 7500             | 9.59             |  |   |   | 23,200 50   | 22,800 49   | 21,800 46   | 20,900 43   |
| 1390   | 8000             | 10.91            |  |   |   |   | 25,000 62   | 24,100 58   | 23,200 56   |
| 1475   | 8500             | 12.32            |  |   |   |   |   | 26,300 74   | 25,400 70   |
| 1561   | 9000             | 13.81            |  |   |   |   |   | 28,300 92   | 27,600 88   |
| 1650   | 9500             | 15.40            |  |   |   |   |   |   | 29,700 105  |
| 1735   | 10000            | 17.05            |  |   |   |   |   |   | 31,800 130  |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 3 1/2" Water 2.02 oza. per sq. inch                    | Static Pressure 4" Water 2.31 oza. per sq. inch                       | Static Pressure 5" Water 2.89 oza. per sq. inch                     | Static Pressure 6" Water 3.47 oza. per sq. inch                         | Static Pressure 7" Water 4.05 oza. per sq. inch                         | Static Pressure 8" Water 4.63 oza. per sq. inch                         | Static Pressure 9" Water 5.2 oza. per sq. inch                      |
| 911    | 5250             | 4.70             | 9,460 9.7  |   |   |   |   |   |   |
| 955    | 5500             | 5.16             | 11,500 13.5  | 9,440 10.5  |   |   |   |   |   |
| 998    | 5750             | 5.64             | 13,000 16.5  | 11,400 14   |   |   |   |   |   |
| 1041   | 6000             | 6.14             | 14,500 20.5  | 13,000 18   | 8,260 11.0  |   |   |   |   |
| 1086   | 6250             | 6.66             | 15,900 24.5  | 14,500 22   | 11,400 16.5   |   |   |   |   |
| 1129   | 6500             | 7.20             | 17,300 29  | 16,000 27   | 13,200 21   |   |   |   |   |
| 1171   | 6750             | 7.76             | 18,500 34  | 17,400 32   | 14,800 26   | 11,600 19.5   |   |   |   |
| 1215   | 7000             | 8.85             | 19,800 40  | 18,700 37   | 16,300 31   | 13,600 25   |   |   |   |
| 1302   | 7500             | 9.59             | 22,200 52  | 21,300 49   | 19,200 43   | 16,800 37   | 14,200 30   |   |   |
| 1390   | 8000             | 10.91            | 24,600 66  | 23,700 64   | 21,900 56   | 19,800 50   | 17,600 43   | 15,100 36   |   |
| 1475   | 8500             | 12.32            | 26,800 84  | 26,000 80   | 24,300 72   | 22,500 66   | 20,600 58   | 18,500 52   | 16,100 44   |
| 1561   | 9000             | 13.81            | 29,000 100   | 28,300 98   | 26,700 90   | 25,100 84   | 23,400 76   | 21,500 68   | 19,500 60   |
| 1650   | 9500             | 15.40            | 31,200 125   | 30,500 120  | 29,100 110  | 27,000 105  | 26,000 96   | 24,400 88   | 22,500 80   |
| 1735   | 10000            | 17.05            | 33,300 150   | 32,600 145  | 31,400 135  | 29,900 125  | 28,500 115  | 27,000 110  | 25,400 100  |

# Double Inlet Size "E" Supervane Fan—Design 1 Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M. H. P. Static Pressure 1/2" Water .0722 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1/4" Water .145 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 3/8" Water .217 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1/2" Water .289 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 5/8" Water .361 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 3/4" Water .434 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 7/8" Water .506 ozs. per sq. inch |
|--------|------------------|------------------|--|---|---|---|---|---|---|
| 153    | 1000             | 0.171            | 2,440 0.091  |   |   |   |   |   |   |
| 184    | 1200             | 0.246            | 4,020 0.230  |   |   |   |   |   |   |
| 214    | 1400             | 0.334            | 5,320 0.435  | 3,310 0.24  |   |   |   |   |   |
| 245    | 1600             | 0.436            | 6,510 0.72   | 4,970 0.50  |   |   |   |   |   |
| 276    | 1800             | 0.552            | 7,650 1.1  | 6,390 0.84  | 4,830 0.60  |   |   |   |   |
| 306    | 2000             | 0.682            |  | 7,650 1.30  | 6,390 1.00  | 4,880 0.73  |   |   |   |
| 337    | 2200             | 0.825            |  | 8,850 1.85  | 7,800 1.55  | 6,500 1.25  | 5,100 0.91  |   |   |
| 367    | 2400             | 0.981            |  | 10,000 2.50   | 9,010 2.15  | 8,040 1.85  | 6,800 1.55  | 5,430 1.15  |   |
| 398    | 2600             | 1.15             |  | 11,100 3.35   | 10,300 2.95   | 9,400 2.6   | 8,370 2.25  | 7,280 1.90  | 5,970 1.50  |
| 428    | 2800             | 1.31             |  |   | 11,400 3.85   | 10,700 3.5  | 9,820 3.1   | 8,820 2.75  | 7,840 2.35  |
| 459    | 3000             | 1.54             |  |   | 12,600 4.95   | 11,800 4.5  | 11,100 4.1  | 10,300 3.70   | 9,340 3.3   |
| 490    | 3200             | 1.75             |  |   | 13,700 6.3  | 13,000 5.7  | 12,300 5.3  | 11,600 4.85   | 10,700 4.4  |
| 520    | 3400             | 1.97             |  |   |   | 14,100 7.2  | 13,600 6.7  | 12,900 6.2  | 12,100 5.7  |
| 551    | 3600             | 2.21             |  |   |   | 15,300 8.7  | 14,700 8.2  | 14,100 7.7  | 13,400 7.2  |
| 581    | 3800             | 2.46             |  |   |   | 16,400 10.5   | 15,800 10   | 15,200 9.4  | 14,700 8.8  |
| 612    | 4000             | 2.73             |  |   |   |   | 16,900 12   | 16,400 11.5   | 15,800 10.5   |
| 643    | 4200             | 3.01             |  |   |   |   | 18,100 14   | 17,500 13.5   | 17,000 13.0   |
| 673    | 4400             | 3.30             |  |   |   |   |   | 18,700 16.0   | 18,200 15.0   |
| 704    | 4600             | 3.61             |  |   |   |   |   | 19,800 18.5   | 19,300 18.0   |
| 735    | 4800             | 3.93             |  |   |   |   |   |   | 20,400 20.5   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 ozs. per sq. inch                        | Static Pressure 1 1/4" Water .723 ozs. per sq. inch                   | Static Pressure 1 1/2" Water .878 ozs. per sq. inch                   | Static Pressure 1 3/4" Water 1.01 ozs. per sq. inch                   | Static Pressure 2" Water 1.16 ozs. per sq. inch                       | Static Pressure 2 1/2" Water 1.45 ozs. per sq. inch                   | Static Pressure 3" Water 1.73 ozs. per sq. inch                       |
| 428    | 2800             | 1.34             | 6,620 1.95   |   |   |   |   |   |   |
| 459    | 3000             | 1.54             | 8,400 2.9  | 5,420 1.80  |   |   |   |   |   |
| 490    | 3200             | 1.75             | 9,940 4.0  | 8,100 3.10  |   |   |   |   |   |
| 520    | 3400             | 1.97             | 11,400 5.3   | 9,760 4.35  | 7,800 3.3   |   |   |   |   |
| 551    | 3600             | 2.21             | 12,700 6.7   | 11,300 5.8  | 9,670 4.8   | 7,460 3.5   |   |   |   |
| 581    | 3800             | 2.46             | 14,000 8.3   | 12,700 7.3  | 11,300 6.4  | 9,640 5.3   | 6,860 3.65  |   |   |
| 612    | 4000             | 2.73             | 15,300 10.0  | 14,100 9.2  | 12,800 8.1  | 11,400 7.0  | 9,750 5.8   |   |   |
| 643    | 4200             | 3.01             | 16,500 12.5  | 15,400 11.0   | 14,200 10.0   | 12,900 8.9  | 11,500 7.8  |   |   |
| 673    | 4400             | 3.30             | 17,700 14.5  | 16,600 13.5   | 15,600 12.0   | 14,400 11.0   | 13,000 9.8  | 10,200 7.3  |   |
| 704    | 4600             | 3.61             | 18,900 17.5  | 17,900 16.0   | 16,900 14.5   | 15,800 13.5   | 14,600 12.0   | 12,100 9.7  |   |
| 735    | 4800             | 3.93             | 20,000 20  | 19,100 18.5   | 18,100 17.5   | 17,100 16   | 16,100 15.0   | 13,800 12.5   | 10,900 9.2  |
| 765    | 5000             | 4.26             | 21,100 23  | 20,200 21.5   | 19,300 20.0   | 18,400 19   | 17,400 17.5   | 15,300 15.0   | 12,900 12.0   |
| 804    | 5250             | 4.70             | 22,200 28  | 21,700 26   | 20,900 24.5   | 20,000 23   | 19,100 21.5   | 17,100 18.5   | 15,000 16.0   |
| 842    | 5500             | 5.16             |  | 23,100 31   | 22,300 29   | 21,500 28   | 20,700 26   | 18,000 23   | 16,900 20.0   |
| 880    | 5750             | 5.64             |  | 24,400 36   | 23,700 34   | 22,900 32   | 22,200 31   | 20,500 28   | 18,800 24.5   |
| 919    | 6000             | 6.14             |  | 25,800 41   | 25,200 40   | 24,400 38   | 23,700 36   | 22,200 33   | 20,500 30   |
| 956    | 6250             | 6.66             |  |   | 26,500 46   | 25,900 44   | 25,100 42   | 23,700 39   | 22,200 36   |
| 995    | 6500             | 7.20             |  |   | 27,900 52   | 27,200 50   | 26,600 48   | 25,300 45   | 23,800 42   |
| 1053   | 6750             | 7.76             |  |   |   | 28,600 58   | 28,100 56   | 26,700 52   | 25,400 48   |
| 1071   | 7000             | 8.85             |  |   |   | 30,000 66   | 29,400 64   | 28,200 58   | 26,900 56   |
| 1149   | 7500             | 9.59             |  |   |   |   | 32,200 80   | 31,000 76   | 29,900 72   |
| 1223   | 8000             | 10.91            |  |   |   |   |   | 33,900 96   | 32,800 92   |
| 1300   | 8500             | 12.32            |  |   |   |   |   | 36,000 120  | 35,600 115  |
| 1378   | 9000             | 13.81            |  |   |   |   |   |   | 38,400 140  |
| 1454   | 9500             | 15.40            |  |   |   |   |   |   | 41,100 165  |
| 1531   | 10000            | 17.05            |  |   |   |   |   |   |   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 3 1/2" Water 2.62 ozs. per sq. inch                    | Static Pressure 4" Water 2.31 ozs. per sq. inch                       | Static Pressure 5" Water 2.89 ozs. per sq. inch                       | Static Pressure 6" Water 3.47 ozs. per sq. inch                       | Static Pressure 7" Water 4.05 ozs. per sq. inch                       | Static Pressure 8" Water 4.63 ozs. per sq. inch                       | Static Pressure 9" Water 5.2 ozs. per sq. inch                        |
| 804    | 5250             | 4.70             | 12,200 12.5  |   |   |   |   |   |   |
| 842    | 5500             | 5.16             | 14,800 17.0  | 12,200 13.5   |   |   |   |   |   |
| 880    | 5750             | 5.64             | 16,800 21.5  | 14,700 18.5   |   |   |   |   |   |
| 919    | 6000             | 6.14             | 18,700 26  | 16,800 23.5   | 10,700 14.5   |   |   |   |   |
| 956    | 6250             | 6.66             | 20,500 32  | 18,800 29   | 14,700 21   |   |   |   |   |
| 995    | 6500             | 7.20             | 22,300 38  | 20,600 35   | 17,000 27   |   |   |   |   |
| 1053   | 6750             | 7.76             | 23,900 44  | 22,400 41   | 19,100 33   | 15,000 25   |   |   |   |
| 1071   | 7000             | 8.85             | 25,500 52  | 24,200 48   | 21,100 40   | 17,600 32   |   |   |   |
| 1149   | 7500             | 9.59             | 28,700 68  | 27,500 64   | 24,800 56   | 21,800 47   | 18,400 39   |   |   |
| 1223   | 8000             | 10.91            | 31,800 86  | 30,600 82   | 28,200 74   | 25,600 64   | 22,800 56   | 19,500 47   |   |
| 1300   | 8500             | 12.32            | 34,800 110   | 33,600 105  | 31,400 94   | 28,100 84   | 26,000 76   | 23,800 66   | 20,000 56   |
| 1378   | 9000             | 13.81            | 37,500 130   | 36,500 125  | 34,500 115  | 32,400 110  | 30,300 98   | 27,800 88   | 25,200 78   |
| 1454   | 9500             | 15.40            | 40,400 160   | 39,400 155  | 37,000 145  | 35,600 135  | 33,600 125  | 31,600 115  | 29,100 105  |
| 1531   | 10000            | 17.05            | 43,100 190   | 42,200 185  | 40,500 175  | 38,700 160  | 36,800 150  | 34,900 140  | 32,800 130  |



# Double Inlet      Size "F" Supervane Fan—Design 1      Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M. H. P. Static Pressure 1 1/2" Water .0722 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1 1/4" Water .145 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1 1/2" Water .217 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1 1/2" Water .289 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1 1/2" Water .361 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1 1/2" Water .434 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1 1/2" Water .506 ozs. per sq. inch |
|--------|------------------|------------------|--|---|---|---|---|---|---|
| 136    | 1000             | 0 171            | 3,050 0 115  |   |   |   |   |   |   |
| 164    | 1200             | 0 246            | 5,030 0 29   |   |   |   |   |   |   |
| 191    | 1400             | 0 331            | 6,660 0 51   | 4,140 0 30  |   |   |   |   |   |
| 218    | 1600             | 0 436            | 8,150 0 90   | 6,210 0 63  |   |   |   |   |   |
| 246    | 1800             | 0 552            | 9,580 1 35   | 8,000 1 05  | 6,050 0 75  |   |   |   |   |
| 273    | 2000             | 0 682            |  | 9,580 1 60  | 8,000 1 25  | 6,110 0 91  |   |   |   |
| 300    | 2200             | 0 825            |  | 11,109 2 30   | 9,770 1 9   | 8,150 1 55  | 6,390 1 15  |   |   |
| 328    | 2400             | 0 981            |  | 12,500 3 15   | 11,300 2 7  | 10,100 2 30   | 8,600 1 9   | 6,800 1 15  |   |
| 355    | 2600             | 1 15             |  | 13,900 4 15   | 12,900 3 7  | 11,800 3 25   | 10,500 2 8  | 9,110 2 35  | 7,170 1 85  |
| 382    | 2800             | 1 34             |  |   | 14,300 4 8  | 13,400 4 35   | 12,300 3 9  | 11,000 3 40   | 9,800 2 95  |
| 410    | 3000             | 1 54             |  |   | 15,600 6 2  | 14,800 5 6  | 13,900 5 1  | 12,900 4 65   | 11,700 4 15   |
| 437    | 3200             | 1 75             |  |   | 17,200 7 9  | 16,300 7 2  | 15,400 6 6  | 14,500 6 1  | 13,500 5 5  |
| 464    | 3400             | 1 97             |  |   |   | 17,700 9  | 17,000 8 3  | 16,100 7 7  | 15,200 7 2  |
| 491    | 3600             | 2 21             |  |   |   | 19,100 11   | 18,400 10 0   | 17,600 9 7  | 16,800 9 0  |
| 519    | 3800             | 2 46             |  |   |   | 20,500 13   | 19,800 12 5   | 19,100 12 0   | 18,400 11 0   |
| 546    | 4000             | 2 73             |  |   |   |   | 21,200 15 0   | 20,500 14 0   | 19,800 13 5   |
| 573    | 4200             | 3 01             |  |   |   |   | 22,600 17 5   | 22,000 17 0   | 21,300 16 0   |
| 600    | 4400             | 3 30             |  |   |   |   |   | 23,400 20 0   | 22,800 19 0   |
| 628    | 4600             | 3 61             |  |   |   |   |   | 24,700 23 5   | 24,200 22 5   |
| 655    | 4800             | 3 93             |  |   |   |   |   |   | 25,500 26   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1 1/2" Water .578 ozs. per sq. inch                      | Static Pressure 1 1/4" Water .723 ozs. per sq. inch                     | Static Pressure 1 1/2" Water .878 ozs. per sq. inch                     | Static Pressure 1 1/2" Water 1.01 ozs. per sq. inch                     | Static Pressure 2" Water 1.16 ozs. per sq. inch                         | Static Pressure 2 1/2" Water 1.45 ozs. per sq. inch                     | Static Pressure 3" Water 1.73 ozs. per sq. inch                         |
| 382    | 2800             | 1 34             | 8,300 2 40   |   |   |   |   |   |   |
| 410    | 3000             | 1 54             | 10,500 3 65  | 6,790 2 25  |   |   |   |   |   |
| 437    | 3200             | 1 75             | 12,400 5 0   | 10,100 3 9  |   |   |   |   |   |
| 464    | 3400             | 1 97             | 14,300 6 6   | 12,200 5 5  | 9,770 4 15  |   |   |   |   |
| 491    | 3600             | 2 21             | 15,900 8 4   | 14,100 7 2  | 12,100 6 0  | 9,350 4 4   |   |   |   |
| 519    | 3800             | 2 46             | 17,600 10 5  | 15,900 9 2  | 14,100 8 0  | 12,100 6 6  | 8,600 4 55  |   |   |
| 546    | 4000             | 2 73             | 19,200 13 0  | 17,700 11 5   | 16,000 10 0   | 14,300 8 8  | 12,200 7 3  |   |   |
| 573    | 4200             | 3 01             | 20,600 15 5  | 19,300 14 0   | 17,800 12 5   | 16,200 11 0   | 14,400 9 8  |   |   |
| 600    | 4400             | 3 30             | 22,100 18 5  | 20,800 17 0   | 19,500 15 5   | 18,000 14 0   | 16,300 12 5   | 15,200 12 0   |   |
| 628    | 4600             | 3 61             | 23,600 21 5  | 22,400 20 0   | 21,100 18 5   | 19,800 17 0   | 18,300 15 5   | 17,200 15 5   | 13,700 11 5   |
| 655    | 4800             | 3 93             | 25,000 25  | 23,900 23 5   | 22,600 21 5   | 21,400 20 0   | 20,100 18 5   |   |   |
| 682    | 5000             | 4 26             | 26,400 29  | 25,400 27   | 24,200 25   | 23,100 23 5   | 21,800 22   | 19,200 19 0   | 16,100 15 5   |
| 716    | 5250             | 4 70             | 28,100 34  | 27,100 32   | 26,100 31   | 25,000 29   | 24,000 27   | 21,400 23 5   | 18,800 20   |
| 750    | 5500             | 5 16             |  | 29,000 38   | 27,900 36   | 27,000 35   | 25,900 33   | 23,600 29   | 21,200 25   |
| 785    | 5750             | 5 64             |  | 30,800 45   | 29,700 43   | 28,700 40   | 27,800 38   | 25,700 35   | 23,400 31   |
| 819    | 6000             | 6 14             |  | 32,400 52   | 31,400 50   | 30,600 47   | 29,700 45   | 27,800 41   | 25,700 37   |
| 854    | 6250             | 6 66             |  |   | 33,200 58   | 32,400 56   | 31,500 52   | 29,700 49   | 27,800 44   |
| 887    | 6500             | 7 20             |  |   | 35,000 66   | 34,100 62   | 33,300 60   | 31,700 55   | 29,800 52   |
| 921    | 6750             | 7 76             |  |   |   | 35,900 72   | 35,200 70   | 33,400 64   | 31,800 60   |
| 955    | 7000             | 8 85             |  |   |   | 37,600 82   | 36,900 80   | 35,300 74   | 33,800 70   |
| 1021   | 7500             | 9 59             |  |   |   |   | 40,300 100  | 38,900 96   | 37,400 90   |
| 1091   | 8000             | 10 91            |  |   |   |   |   | 42,500 120  | 41,000 115  |
| 1160   | 8500             | 12 32            |  |   |   |   |   | 45,800 150  | 44,700 140  |
| 1229   | 9000             | 13 81            |  |   |   |   |   |   | 48,100 175  |
| 1298   | 9500             | 15 40            |  |   |   |   |   |   | 51,500 210  |
| 1364   | 10000            | 17 05            |  |   |   |   |   |   |   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 3 1/2" Water 2.02 ozs. per sq. inch                      | Static Pressure 4" Water 2.31 ozs. per sq. inch                         | Static Pressure 5" Water 2.89 ozs. per sq. inch                         | Static Pressure 6" Water 3.47 ozs. per sq. inch                         | Static Pressure 7" Water 4.05 ozs. per sq. inch                         | Static Pressure 8" Water 4.63 ozs. per sq. inch                         | Static Pressure 9" Water 5.2 ozs. per sq. inch                          |
| 716    | 5250             | 4 70             | 15,300 15 5  |   |   |   |   |   |   |
| 750    | 5500             | 5 16             | 18,500 21 5  | 15,300 17   |   |   |   |   |   |
| 785    | 5750             | 5 64             | 21,000 27  | 18,400 23   |   |   |   |   |   |
| 819    | 6000             | 6 14             | 23,400 33  | 21,000 29   | 13,400 18   |   |   |   |   |
| 854    | 6250             | 6 66             | 25,700 40  | 23,500 36   | 18,400 27   |   |   |   |   |
| 887    | 6500             | 7 20             | 27,900 47  | 25,800 43   | 21,300 34   |   |   |   |   |
| 921    | 6750             | 7 76             | 30,000 56  | 28,100 52   | 23,900 42   | 18,800 31   |   |   |   |
| 955    | 7000             | 8 85             | 32,000 64  | 30,200 60   | 26,400 50   | 22,000 41   |   |   |   |
| 1021   | 7500             | 9 59             | 35,000 84  | 34,400 80   | 31,000 70   | 27,300 60   | 23,000 48   |   |   |
| 1091   | 8000             | 10 91            | 39,600 110   | 38,300 105  | 35,400 92   | 32,000 82   | 28,500 70   | 24,400 58   |   |
| 1160   | 8500             | 12 32            | 43,300 135   | 42,000 130  | 39,400 115  | 36,100 105  | 33,000 94   | 29,900 84   | 26,000 70   |
| 1229   | 9000             | 13 81            | 46,900 165   | 45,700 160  | 43,100 145  | 40,600 135  | 37,900 125  | 34,800 110  | 31,500 98   |
| 1298   | 9500             | 15 40            | 50,500 200   | 49,300 195  | 47,100 180  | 44,000 165  | 42,100 155  | 39,400 140  | 36,400 130  |
| 1364   | 10000            | 17 05            | 53,900 240   | 52,900 230  | 50,600 215  | 48,400 200  | 46,100 190  | 43,500 175  | 41,000 165  |

### Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| Table No. 1.—Static Pressures Against Continuously Maintained Resistances |                  |                  |  |       |   |       |   |       |   |       |   |       |   |       |   |       |
|---|------------------|------------------|--|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|
| R.P.M.  | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.<br>Static Pressure<br>$\frac{1}{8}$ " Water<br>.0722 ozs. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure<br>$\frac{1}{4}$ " Water<br>.145 ozs. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure<br>$\frac{3}{8}$ " Water<br>.217 ozs. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure<br>$\frac{1}{2}$ " Water<br>.289 ozs. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure<br>$\frac{5}{8}$ " Water<br>.361 ozs. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure<br>$\frac{3}{4}$ " Water<br>.434 ozs. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure<br>$\frac{7}{8}$ " Water<br>.506 ozs. per sq. inch | H. P. |
| 119   | 1000             | 0 171            | 3,980  | 0 145 |   |       |   |       |   |       |   |       |   |       |   |       |
| 143   | 1200             | 0 246            | 6,500  | 0 375 |   |       |   |       |   |       |   |       |   |       |   |       |
| 167   | 1400             | 0 334            | 8,680  | 0 71  | 5,390   | 0 39  |   |       |   |       |   |       |   |       |   |       |
| 191   | 1600             | 0 436            | 10,600   | 1 15  | 8,110   | 0 81  |   |       |   |       |   |       |   |       |   |       |
| 215   | 1800             | 0 552            | 12,500   | 1 8   | 10,400  | 1 35  | 7,890   | 0 98  |   |       |   |       |   |       |   |       |
| 238   | 2000             | 0 682            |  |       | 12,500  | 2 1   | 10,400  | 1 65  | 7,960   | 1 20  |   |       |   |       |   |       |
| 262   | 2200             | 0 825            |  |       | 14,400  | 3 0   | 12,700  | 2 5   | 10,000  | 2 00  | 8,320   | 1 50  |   |       |   |       |
| 286   | 2400             | 0 981            |  |       | 16,300  | 4 1   | 14,700  | 3 5   | 13,100  | 3 00  | 11,200  | 2 50  | 8,760   | 1 90  |   |       |
| 310   | 2600             | 1 15             |  |       | 18,100  | 5 4   | 16,800  | 4 8   | 15,300  | 4 25  | 13,700  | 3 65  | 11,900  | 3 10  | 9,750   | 2 40  |
| 334   | 2800             | 1 34             |  |       |   |       | 18,700  | 6 3   | 17,400  | 5 7   | 16,000  | 5 1   | 14,400  | 4 45  | 12,800  | 3 85  |
| 358   | 3000             | 1 54             |  |       |   |       | 20,500  | 8 1   | 19,300  | 7 3   | 18,100  | 6 7   | 16,800  | 6 1   | 15,200  | 5 4   |
| 382   | 3200             | 1 75             |  |       |   |       | 22,400  | 10 5  | 21,300  | 9 3   | 20,100  | 8 6   | 18,900  | 7 9   | 17,000  | 7 2   |
| 406   | 3400             | 1 97             |  |       |   |       |   |       | 23,100  | 11 5  | 22,100  | 11 0  | 21,000  | 10 0  | 19,800  | 9 3   |
| 430   | 3600             | 2 21             |  |       |   |       |   |       | 24,900  | 14    | 21,000  | 13 5  | 23,000  | 12 5  | 21,900  | 12 0  |
| 453   | 3800             | 2 46             |  |       |   |       |   |       | 26,700  | 17    | 25,800  | 16 5  | 24,900  | 15 5  | 23,900  | 14 5  |
| 477   | 4000             | 2 73             |  |       |   |       |   |       |   |       | 27,600  | 19 5  | 26,800  | 18 5  | 25,900  | 17 5  |
| 501   | 4200             | 3 01             |  |       |   |       |   |       |   |       | 29,500  | 23    | 28,600  | 22    | 27,800  | 21    |
| 525   | 4400             | 3 30             |  |       |   |       |   |       |   |       |   |       | 30,400  | 26    | 29,700  | 25    |
| 549   | 4600             | 3 61             |  |       |   |       |   |       |   |       |   |       | 32,200  | 30    | 31,500  | 29    |
| 572   | 4800             | 3 93             |  |       |   |       |   |       |   |       |   |       |   |       | 33,300  | 34    |
| R.P.M.  | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure<br>1" Water<br>.578 ozs. per sq. inch                                |       | Static Pressure<br>1½" Water<br>.723 ozs. per sq. inch                              |       | Static Pressure<br>2" Water<br>.878 ozs. per sq. inch                               |       | Static Pressure<br>2½" Water<br>1.01 ozs. per sq. inch                              |       | Static Pressure<br>3" Water<br>1.16 ozs. per sq. inch                               |       | Static Pressure<br>3½" Water<br>1.45 ozs. per sq. inch                              |       | Static Pressure<br>4" Water<br>1.73 ozs. per sq. inch                               |       |
| 334   | 2800             | 1 34             | 10,800   | 3 15  |   |       |   |       |   |       |   |       |   |       |   |       |
| 358   | 3000             | 1 54             | 13,700   | 4 75  | 8,850   | 2 95  |   |       |   |       |   |       |   |       |   |       |
| 382   | 3200             | 1 75             | 16,200   | 6 5   | 13,200  | 5 1   |   |       |   |       |   |       |   |       |   |       |
| 406   | 3400             | 1 97             | 18,600   | 8 7   | 15,900  | 7 1   | 12,700  | 5 4   |   |       |   |       |   |       |   |       |
| 430   | 3600             | 2 21             | 20,800   | 11 0  | 18,400  | 9 4   | 15,800  | 7 8   | 12,200  | 5 7   |   |       |   |       |   |       |
| 453   | 3800             | 2 46             | 22,900   | 13 5  | 20,800  | 12    | 18,400  | 10 5  | 15,700  | 8 6   | 11,200  | 5 9   |   |       |   |       |
| 477   | 4000             | 2 73             | 25,000   | 16 5  | 23,000  | 15    | 20,900  | 13 0  | 18,600  | 11 5  | 15,900  | 9 5   |   |       |   |       |
| 501   | 4200             | 3 01             | 27,000   | 20    | 25,100  | 18    | 23,200  | 16 5  | 21,100  | 14 5  | 18,800  | 12    |   |       |   |       |



Double Inlet

## Size "J" Supervane Fan—Design 1

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M. H. P. Static Pressure 1/2" Water .0722 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 3/4" Water .145 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1" Water .217 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1 1/4" Water .289 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1 1/2" Water .361 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1 3/4" Water .434 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 2" Water .506 ozs. per sq. inch |
|--------|------------------|------------------|--|---|---|---|---|---|---|
| 95     | 1000             | 0 171            | 6,220 0 235  |   |   |   |   |   |   |
| 115    | 1200             | 0 246            | 10,300 0 59  |   |   |   |   |   |   |
| 134    | 1400             | 0 334            | 13,600 1 10  | 8,440 0 61  |   |   |   |   |   |
| 153    | 1600             | 0 436            | 16,600 1 85  | 12,700 1 30   |   |   |   |   |   |
| 172    | 1800             | 0 552            | 19,500 2 8   | 16,300 2 15   | 12,300 1 55   |   |   |   |   |
| 191    | 2000             | 0 682            |  | 19,500 3 25   | 16,300 2 6  | 12,500 1 85   |   |   |   |
| 210    | 2200             | 0 825            |  | 22,600 4 05   | 19,900 3 9  | 16,600 3 15   | 13,000 2 3  |   |   |
| 229    | 2400             | 0 981            |  | 25,500 4 4  | 23,000 5 5  | 20,500 4 75   | 17,500 3 9  | 13,900 2 95   |   |
| 248    | 2600             | 1 15             |  | 28,400 8 5  | 26,200 7 5  | 24,000 6 6  | 21,300 5 7  | 18,600 4 85   | 15,200 3 8  |
| 268    | 2800             | 1 34             |  |   | 29,200 9 9  | 27,200 8 9  | 25,000 8 0  | 22,500 7 0  | 20,000 6 0  |
| 287    | 3000             | 1 54             |  |   | 32,000 12 5   | 30,200 11 5   | 28,400 10 5   | 26,200 9 5  | 23,800 8 5  |
| 306    | 3200             | 1 75             |  |   | 35,000 16   | 33,200 14 5   | 31,500 13 5   | 29,000 12 5   | 27,400 11 5   |
| 325    | 3400             | 1 97             |  |   |   | 36,100 18 5   | 34,600 17   | 32,800 16 0   | 31,000 14 5   |
| 344    | 3600             | 2 21             |  |   |   | 39,000 22 5   | 37,500 21   | 36,000 19 5   | 34,200 18 5   |
| 363    | 3800             | 2 46             |  |   |   | 41,700 27   | 40,300 25   | 38,900 24   | 37,500 22 5   |
| 382    | 4000             | 2 73             |  |   |   |   | 43,200 30   | 41,900 29   | 40,500 27   |
| 401    | 4200             | 3 01             |  |   |   |   | 46,100 36   | 44,800 35   | 43,100 33   |
| 420    | 4400             | 3 30             |  |   |   |   |   | 47,600 41   | 46,400 39   |
| 440    | 4600             | 3 61             |  |   |   |   |   | 50,500 47   | 49,300 46   |
| 459    | 4800             | 3 93             |  |   |   |   |   |   | 52,100 54   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 ozs. per sq. inch                        | Static Pressure 1 1/4" Water .723 ozs. per sq. inch                   | Static Pressure 1 1/2" Water .878 ozs. per sq. inch                 | Static Pressure 1 3/4" Water 1.01 ozs. per sq. inch                     | Static Pressure 2" Water 1.16 ozs. per sq. inch                         | Static Pressure 2 1/4" Water 1.48 ozs. per sq. inch                     | Static Pressure 2 1/2" Water 1.73 ozs. per sq. inch                 |
| 268    | 2800             | 1 34             | 16,900 4 9   |   |   |   |   |   |   |
| 287    | 3000             | 1 54             | 21,400 7 4   | 13,800 4 6  |   |   |   |   |   |
| 306    | 3200             | 1 75             | 25,400 10 0  | 20,700 8 0  |   |   |   |   |   |
| 325    | 3400             | 1 97             | 29,200 13 5  | 21,900 11 0   | 19,900 8 5  |   |   |   |   |
| 344    | 3600             | 2 21             | 32,500 17 0  | 28,800 14 5   | 24,700 12 0   | 19,100 9 0  |   |   |   |
| 363    | 3800             | 2 46             | 35,800 21 5  | 32,500 19 0   | 28,800 16 0   | 24,600 13 5   | 17,500 9 3  |   |   |
| 382    | 4000             | 2 73             | 39,000 26  | 36,000 23 5   | 32,700 20 5   | 29,100 18   | 24,900 15   |   |   |
| 401    | 4200             | 3 01             | 42,100 31  | 39,300 29   | 36,200 26   | 33,300 23   | 29,400 20   |   |   |
| 420    | 4400             | 3 30             | 45,100 37  | 42,400 34   | 39,800 31   | 36,700 28   | 33,200 25   | 26,000 18 5   |   |
| 440    | 4600             | 3 61             | 48,100 44  | 45,600 41   | 43,000 37   | 40,300 35   | 37,300 31   | 30,900 25   |   |
| 459    | 4800             | 3 93             | 50,900 52  | 48,800 48   | 46,100 44   | 43,700 41   | 41,000 38   | 35,100 31   | 27,800 23 5   |
| 478    | 5000             | 4 26             | 53,900 60  | 51,700 56   | 49,400 52   | 47,100 48   | 44,400 45   | 39,000 39   | 32,900 31   |
| 501    | 5250             | 4 70             | 57,400 70  | 55,400 66   | 53,200 62   | 51,000 58   | 48,700 54   | 43,600 48   | 38,400 41   |
| 525    | 5500             | 5 16             |  | 59,000 78   | 56,900 74   | 55,000 70   | 52,800 66   | 48,100 60   | 43,100 52   |
| 549    | 5750             | 5 64             |  | 62,400 92   | 60,600 88   | 58,500 82   | 56,600 78   | 52,400 70   | 47,800 62   |
| 574    | 6000             | 6 14             |  | 66,000 105  | 64,100 100  | 62,400 96   | 60,500 92   | 56,600 84   | 52,400 76   |
| 597    | 6250             | 6 66             |  |   | 67,600 115  | 66,000 115  | 64,100 105  | 60,500 98   | 56,600 90   |
| 621    | 6500             | 7 20             |  |   | 71,300 135  | 69,500 130  | 67,800 125  | 64,500 115  | 60,600 105  |
| 645    | 6750             | 7 76             |  |   |   | 73,100 145  | 71,500 140  | 68,100 130  | 64,700 120  |
| 669    | 7000             | 8 85             |  |   |   | 76,600 165  | 75,000 160  | 72,000 150  | 68,700 140  |
| 716    | 7500             | 9 59             |  |   |   |   | 82,100 205  | 79,200 195  | 76,300 185  |
| 764    | 8000             | 10 91            |  |   |   |   |   | 86,500 245  | 83,700 230  |
| 812    | 8500             | 12 32            |  |   |   |   |   | 93,400 300  | 91,000 285  |
| 860    | 9000             | 13 81            |  |   |   |   |   |   | 98,100 350  |
| 908    | 9500             | 15 40            |  |   |   |   |   |   | 105,000 425   |
| 955    | 10000            | 17 05            |  |   |   |   |   |   |   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 3 1/2" Water 2.62 ozs. per sq. inch                    | Static Pressure 4" Water 2.31 ozs. per sq. inch                       | Static Pressure 5" Water 2.89 ozs. per sq. inch                     | Static Pressure 6" Water 3.47 ozs. per sq. inch                         | Static Pressure 7" Water 4.05 ozs. per sq. inch                         | Static Pressure 8" Water 4.63 ozs. per sq. inch                         | Static Pressure 9" Water 5.2 ozs. per sq. inch                      |
| 501    | 5250             | 4 70             | 31,200 32  |   |   |   |   |   |   |
| 525    | 5500             | 5 16             | 37,800 44  | 31,100 35   |   |   |   |   |   |
| 549    | 5750             | 5 64             | 42,900 56  | 37,400 47   |   |   |   |   |   |
| 574    | 6000             | 6 14             | 47,700 68  | 42,800 60   | 27,300 36   |   |   |   |   |
| 597    | 6250             | 6 66             | 52,400 82  | 47,900 72   | 37,400 54   |   |   |   |   |
| 621    | 6500             | 7 20             | 56,900 96  | 52,600 88   | 43,400 70   |   |   |   |   |
| 645    | 6750             | 7 76             | 61,000 115   | 57,300 105  | 48,600 86   | 38,200 64   |   |   |   |
| 669    | 7000             | 8 85             | 65,100 130   | 61,600 120  | 53,800 105  | 44,800 82   |   |   |   |
| 716    | 7500             | 9 59             | 73,200 170   | 70,000 160  | 63,100 140  | 55,500 120  | 46,900 98   |   |   |
| 764    | 8000             | 10 91            | 81,000 220   | 78,000 210  | 72,000 185  | 65,300 165  | 58,100 140  | 49,700 120  |   |
| 812    | 8500             | 12 32            | 88,400 275   | 85,600 260  | 80,100 240  | 74,100 215  | 67,800 195  | 60,900 170  | 53,000 145  |
| 860    | 9000             | 13 81            | 95,600 340   | 93,200 325  | 88,000 300  | 82,600 275  | 77,100 250  | 70,900 225  | 64,200 200  |
| 908    | 9500             | 15 40            | 103,000 410  | 100,000 395   | 96,000 365  | 91,000 340  | 85,900 315  | 80,300 290  | 74,200 265  |
| 955    | 10000            | 17 05            | 110,000 490  | 108,000 470   | 103,000 440   | 98,600 410  | 94,000 385  | 88,900 360  | 83,500 335  |











# Double Inlet      Size "P" Supervane Fan—Design 1      Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.<br>Static Pressure 1/4" Water .0722 ozs. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure 1/4" Water .145 ozs. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure 1/4" Water .217 ozs. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure 1/4" Water .289 ozs. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure 1/4" Water .361 ozs. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure 1/4" Water .434 ozs. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure 1/4" Water .506 ozs. per sq. inch | H. P. |
|--------|------------------|------------------|---|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|
| 54     | 1000             | 0 171            | 19,100  | 0.71  |  |       |  |       |  |       |  |       |  |       |  |       |
| 65     | 1200             | 0 246            | 31,500  | 1 8   |  |       |  |       |  |       |  |       |  |       |  |       |
| 76     | 1400             | 0 334            | 41,700  | 3 4   | 25,000   | 1 9   |  |       |  |       |  |       |  |       |  |       |
| 87     | 1600             | 0 436            | 51,000  | 5 6   | 38,900   | 3 9   |  |       |  |       |  |       |  |       |  |       |
| 98     | 1800             | 0 552            | 59,900  | 8.5   | 50,000   | 6 6   | 37,900   | 4.7   |  |       |  |       |  |       |  |       |
| 109    | 2000             | 0 682            |   |       | 59,900   | 10 0  | 50,000   | 7 9   | 38,200   | 5.7   |  |       |  |       |  |       |
| 120    | 2200             | 0 825            |   |       | 69,400   | 14 5  | 61,100   | 12    | 51,000   | 9 6   | 40,000   | 7.1   |  |       |  |       |
| 131    | 2400             | 0 981            |   |       | 78,400   | 19 5  | 70,900   | 17    | 63,000   | 14.5  | 53,800   | 12.0  | 42,600   | 9.0   |  |       |
| 142    | 2600             | 1 15             |   |       | 87,100   | 26    | 80,500   | 23    | 73,600   | 20.5  | 65,600   | 17.5  | 57,100   | 15.0  | 46,800   | 11.5  |
| 153    | 2800             | 1 34             |   |       |  |       | 89,600   | 30    | 83,500   | 27    | 77,000   | 21.5  | 69,100   | 21.5  | 61,300   | 18.5  |
| 164    | 3000             | 1 54             |   |       |  |       | 98,500   | 39    | 92,800   | 35    | 87,100   | 32    | 80,500   | 29    | 73,100   | 26    |
| 174    | 3200             | 1 75             |   |       |  |       | 107,000  | 50    | 102,000  | 45    | 96,800   | 41    | 90,900   | 38    | 84,300   | 35    |
| 185    | 3400             | 1 97             |   |       |  |       |  |       | 111,000  | 56    | 106,000  | 52    | 101,000  | 48    | 95,100   | 45    |
| 196    | 3600             | 2 21             |   |       |  |       |  |       | 120,000  | 68    | 115,000  | 64    | 110,000  | 60    | 105,000  | 56    |
| 207    | 3800             | 2 46             |   |       |  |       |  |       | 128,000  | 82    | 124,000  | 78    | 119,000  | 74    | 115,000  | 70    |
| 218    | 4000             | 2 73             |   |       |  |       |  |       |  |       | 133,000  | 94    | 129,000  | 90    | 124,000  | 84    |
| 229    | 4200             | 3 01             |   |       |  |       |  |       |  |       | 142,000  | 110   | 138,000  | 105   | 133,000  | 100   |
| 240    | 4400             | 3 30             |   |       |  |       |  |       |  |       |  |       | 146,000  | 125   | 143,000  | 120   |
| 251    | 4600             | 3 61             |   |       |  |       |  |       |  |       |  |       | 155,000  | 145   | 151,000  | 140   |
| 262    | 4800             | 3 93             |   |       |  |       |  |       |  |       |  |       |  |       | 160,000  | 165   |
|        |                  |                  |   |       |  |       |  |       |  |       |  |       |  |       |  |       |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 ozs. per sq. inch                     |       | Static Pressure 1 1/4" Water .723 ozs. per sq. inch                |       | Static Pressure 1 1/2" Water .878 ozs. per sq. inch                |       | Static Pressure 1 3/4" Water 1.01 ozs. per sq. inch                |       | Static Pressure 2" Water 1.16 ozs. per sq. inch                    |       | Static Pressure 2 1/4" Water 1.45 ozs. per sq. inch                |       | Static Pressure 2 1/2" Water 1.73 ozs. per sq. inch                |       |
| 153    | 2800             | 1 34             | 52,000  | 15    |  |       |  |       |  |       |  |       |  |       |  |       |
| 164    | 3000             | 1 54             | 65,900  | 23    | 42,500   | 14 0  |  |       |  |       |  |       |  |       |  |       |
| 174    | 3200             | 1 75             | 77,900  | 31    | 63,500   | 24 5  |  |       |  |       |  |       |  |       |  |       |
| 185    | 3400             | 1 97             | 89,500  | 42    | 76,500   | 34    | 61,100   | 26    |  |       |  |       |  |       |  |       |
| 196    | 3600             | 2 21             | 99,700  | 52    | 88,500   | 45    | 75,800   | 38    | 58,500   | 28    |  |       |  |       |  |       |
| 207    | 3800             | 2 46             | 110,000   | 66    | 99,900   | 58    | 88,000   | 50    | 75,500   | 41    | 53,800   | 29    |  |       |  |       |
| 218    | 4000             | 2 73             | 120,000   | 80    | 111,000  | 72    | 100,000  | 64    | 89,200   | 56    | 76,500   | 46    |  |       |  |       |
| 229    | 4200             | 3 01             | 129,000   | 96    | 121,000  | 88    | 111,000  | 78    | 101,000  | 70    | 90,200   | 62    |  |       |  |       |
| 240    | 4400             | 3 30             | 139,000   | 115   | 130,000  | 105   | 122,000  | 96    | 113,000  | 86    | 102,000  | 78    | 79,800   | 56    |  |       |
| 251    | 4600             | 3 61             | 148,000   | 135   | 140,000  | 125   | 132,000  | 115   | 124,000  | 105   | 114,000  | 96    | 95,000   | 76    |  |       |
| 262    | 4800             | 3 93             | 159,000   | 155   | 150,000  | 145   | 142,000  | 135   | 134,000  | 125   | 126,000  | 115   | 108,000  | 96    | 85,500   | 72    |
| 273    | 5000             | 4 26             | 166,000   | 180   | 159,000  | 170   | 152,000  | 160   | 144,000  | 150   | 136,000  | 140   | 120,000  | 120   | 101,000  | 96    |
| 286    | 5250             | 4 70             | 176,000   | 215   | 170,000  | 205   | 164,000  | 190   | 156,000  | 180   | 150,000  | 170   | 134,000  | 145   | 118,000  | 125   |
| 300    | 5500             | 5 16             |   |       | 181,000  | 240   | 175,000  | 225   | 169,000  | 215   | 162,000  | 205   | 148,000  | 180   | 132,000  | 160   |
| 314    | 5750             | 5 64             |   |       | 192,000  | 280   | 186,000  | 270   | 180,000  | 255   | 174,000  | 240   | 161,000  | 215   | 147,000  | 195   |
| 327    | 6000             | 6 14             |   |       | 202,000  | 325   | 197,000  | 310   | 191,000  | 295   | 186,000  | 285   | 174,000  | 255   | 161,000  | 235   |
| 341    | 6250             | 6 66             |   |       |  |       | 208,000  | 360   | 203,000  | 350   | 197,000  | 330   | 186,000  | 300   | 174,000  | 275   |
| 354    | 6500             | 7 20             |   |       |  |       | 219,000  | 410   | 213,000  | 395   | 208,000  | 380   | 198,000  | 350   | 186,000  | 325   |
| 368    | 6750             | 7 76             |   |       |  |       |  |       | 224,000  | 450   | 220,000  | 435   | 209,000  | 405   | 199,000  | 375   |
| 382    | 7000             | 8 85             |   |       |  |       |  |       | 235,000  | 510   | 231,000  | 495   | 221,000  | 460   | 211,000  | 430   |
| 400    | 7500             | 9 59             |   |       |  |       |  |       |  |       | 253,000  | 635   | 244,000  | 595   | 234,000  | 500   |
| 436    | 8000             | 10 91            |   |       |  |       |  |       |  |       |  |       | 266,000  | 750   | 257,000  | 715   |
| 464    | 8500             | 12 32            |   |       |  |       |  |       |  |       |  |       | 287,000  | 920   | 280,000  | 885   |
| 490    | 9000             | 13 81            |   |       |  |       |  |       |  |       |  |       |  |       | 302,000  | 1080  |
| 518    | 9500             | 15 40            |   |       |  |       |  |       |  |       |  |       |  |       | 322,000  | 1300  |
| 545    | 10000            | 17 05            |   |       |  |       |  |       |  |       |  |       |  |       |  |       |
|        |                  |                  |   |       |  |       |  |       |  |       |  |       |  |       |  |       |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 3 1/2" Water 2.02 ozs. per sq. inch                 |       | Static Pressure 4" Water 2.31 ozs. per sq. inch                    |       | Static Pressure 5" Water 2.89 ozs. per sq. inch                    |       | Static Pressure 6" Water 3.47 ozs. per sq. inch                    |       | Static Pressure 7" Water 4.05 ozs. per sq. inch                    |       | Static Pressure 8" Water 4.63 ozs. per sq. inch                    |       | Static Pressure 9" Water 5.2 ozs. per sq. inch                     |       |
| 286    | 5250             | 4 70             | 96,000  | 98    |  |       |  |       |  |       |  |       |  |       |  |       |
| 300    | 5500             | 5 16             | 116,000   | 135   | 95,500   | 105   |  |       |  |       |  |       |  |       |  |       |
| 314    | 5750             | 5 64             | 132,000   | 170   | 115,000  | 145   |  |       |  |       |  |       |  |       |  |       |
| 327    | 6000             | 6 14             | 146,000   | 205   | 132,000  | 180   | 83,800   | 110   |  |       |  |       |  |       |  |       |
| 341    | 6250             | 6 66             | 161,000   | 250   | 147,000  | 225   | 115,000  | 165   |  |       |  |       |  |       |  |       |
| 354    | 6500             | 7 20             | 175,000   | 295   | 162,000  | 270   | 133,000  | 215   |  |       |  |       |  |       |  |       |
| 368    | 6750             | 7 76             | 188,000   | 350   | 176,000  | 320   | 150,000  | 265   | 118,000  | 195   |  |       |  |       |  |       |
| 382    | 7000             | 8 85             | 200,000   | 400   | 189,000  | 375   | 165,000  | 315   | 138,000  | 255   |  |       |  |       |  |       |
| 400    | 7500             | 9 59             | 225,000   | 530   | 215,000  | 500   | 194,000  | 435   | 171,000  | 370   | 144,000  | 300   | 178,000  | 435   | 153,000  | 365   |
| 436    | 8000             | 10 91            | 249,000   | 675   | 240,000  | 640   | 221,000  | 575   | 201,000  | 510   | 178,000  | 435   | 218,000  | 695   | 197,000  | 620   |
| 464    | 8500             | 12 32            | 271,000   | 845   | 264,000  | 805   | 246,000  | 735   | 228,000  | 665   | 208,000  | 590   | 247,000  | 890   | 228,000  | 810   |
| 490    | 9000             | 13 81            | 294,000   | 1040  | 286,000  | 995   | 270,000  | 915   | 254,000  | 845   | 237,000  | 770   | 273,000  | 1100  | 257,000  | 1020  |
| 518    | 9500             | 15 40            | 316,000   | 1290  | 309,000  | 1210  | 294,000  | 1130  | 279,000  | 1040  | 264,000  | 970   | 297,000  | 1300  |  |       |
| 545    | 10000            | 17 05            | 337,000   | 1500  | 331,000  | 1450  | 318,000  | 1360  | 303,000  | 1270  | 288,000  | 1190  |  |       |  |       |

Double Inlet

## Size "Q" Supervane Fan—Design 1

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                     | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. |
|--------|------------------|------------------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|
|        |                  |                  | Static Pressure 1/2" Water .0722 ozs. per sq. inch  |       | Static Pressure 1/2" Water .145 ozs. per sq. inch   |       | Static Pressure 1/2" Water .217 ozs. per sq. inch   |       | Static Pressure 1/2" Water .289 ozs. per sq. inch   |       | Static Pressure 1/2" Water .361 ozs. per sq. inch |       | Static Pressure 1/2" Water .434 ozs. per sq. inch   |       | Static Pressure 1/2" Water .506 ozs. per sq. inch   |       |
| 50     | 1000             | 0.171            | 22,500  | 0.81  |   |       |   |       |   |       |   |       |   |       |   |       |
| 60     | 1200             | 0.246            | 37,100  | 2.15  |   |       |   |       |   |       |   |       |   |       |   |       |
| 70     | 1400             | 0.334            | 49,100  | 4.0   | 30,500  | 2.2   |   |       |   |       |   |       |   |       |   |       |
| 80     | 1600             | 0.436            | 60,000  | 6.6   | 45,800  | 4.6   |   |       |   |       |   |       |   |       |   |       |
| 90     | 1800             | 0.552            | 70,600  | 10    | 59,000  | 7.8   | 44,000  | 5.5   |   |       |   |       |   |       |   |       |
| 100    | 2000             | 0.682            |   |       | 70,600  | 12    | 59,000  | 9.4   | 45,000  | 6.7   |   |       |   |       |   |       |
| 111    | 2200             | 0.825            |   |       | 81,700  | 17    | 72,000  | 14    | 60,100  | 11.5  | 47,100  | 8.4   |   |       |   |       |
| 121    | 2400             | 0.981            |   |       | 92,400  | 23    | 83,400  | 20    | 74,300  | 17    | 63,400  | 11.0  | 50,100  | 10.5  |   |       |
| 131    | 2600             | 1.15             |   |       | 103,000   | 31    | 94,800  | 27    | 86,700  | 24    | 77,200  | 20.5  | 67,300  | 17.5  | 55,100  | 13.5  |
| 141    | 2800             | 1.34             |   |       |   |       | 106,000   | 36    | 98,500  | 32    | 90,600  | 29    | 81,500  | 25    | 72,300  | 22    |
| 151    | 3000             | 1.54             |   |       |   |       | 116,000   | 46    | 109,000   | 42    | 103,000   | 38    | 94,800  | 34    | 86,100  | 31    |
| 161    | 3200             | 1.75             |   |       |   |       | 126,000   | 58    | 120,000   | 52    | 114,000   | 49    | 107,000   | 45    | 99,300  | 41    |
| 171    | 3400             | 1.97             |   |       |   |       |   |       | 131,000   | 66    | 125,000   | 62    | 119,000   | 56    | 112,000   | 52    |
| 181    | 3600             | 2.21             |   |       |   |       |   |       | 141,000   | 80    | 136,000   | 76    | 130,000   | 72    | 124,000   | 66    |
| 191    | 3800             | 2.46             |   |       |   |       |   |       | 151,000   | 96    | 146,000   | 92    | 141,000   | 86    | 135,000   | 82    |
| 201    | 4000             | 2.73             |   |       |   |       |   |       |   |       | 156,000   | 110   | 152,000   | 105   | 146,000   | 100   |
| 211    | 4200             | 3.01             |   |       |   |       |   |       |   |       | 167,000   | 130   |   |       | 162,000   | 125   |
| 221    | 4400             | 3.30             |   |       |   |       |   |       |   |       |   |       | 172,000   | 145   | 168,000   | 140   |
| 231    | 4600             | 3.61             |   |       |   |       |   |       |   |       |   |       | 183,000   | 170   | 178,000   | 165   |
| 241    | 4800             | 3.93             |   |       |   |       |   |       |   |       |   |       |   |       | 188,000   | 190   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 ozs. per sq. inch     |       | Static Pressure 1 1/4" Water .723 ozs. per sq. inch |       | Static Pressure 1 1/2" Water .878 ozs. per sq. inch |       | Static Pressure 1 3/4" Water 1.01 ozs. per sq. inch |       | Static Pressure 2" Water 1.16 ozs. per sq. inch   |       | Static Pressure 2 1/4" Water 1.45 ozs. per sq. inch |       | Static Pressure 2 1/2" Water 1.73 ozs. per sq. inch |       |
| 141    | 2800             | 1.34             | 61,100  | 18    |   |       |   |       |   |       |   |       |   |       |   |       |
| 151    | 3000             | 1.54             | 77,500  | 27    | 50,000  | 16.5  |   |       |   |       |   |       |   |       |   |       |
| 161    | 3200             | 1.75             | 91,800  | 37    | 74,800  | 29    |   |       |   |       |   |       |   |       |   |       |
| 171    | 3400             | 1.97             | 105,000   | 49    | 90,100  | 40    | 72,000  | 31    |   |       |   |       |   |       |   |       |
| 181    | 3600             | 2.21             | 118,000   | 62    | 104,000   | 54    | 89,300  | 44    | 69,000  | 32    |   |       |   |       |   |       |
| 191    | 3800             | 2.46             | 130,000   | 76    | 118,000   | 68    | 104,000   | 58    | 89,000  | 48    | 63,400  | 34    |   |       |   |       |
| 201    | 4000             | 2.73             | 141,000   | 94    | 130,000   | 84    | 118,000   | 74    | 105,000   | 66    | 90,000  | 54    |   |       |   |       |
| 211    | 4200             | 3.01             | 152,000   | 115   | 142,000   | 105   | 131,000   | 92    | 119,000   | 82    | 106,000   | 72    |   |       |   |       |
| 221    | 4400             | 3.30             | 163,000   | 135   | 153,000   | 125   | 144,000   | 115   | 133,000   | 100   | 120,000   | 90    | 94,000  | 68    |   |       |
| 231    | 4600             | 3.61             | 174,000   | 160   | 165,000   | 145   | 156,000   | 135   | 146,000   | 125   | 135,000   | 115   | 112,000   | 90    | 101,000   | 86    |
| 241    | 4800             | 3.93             | 184,000   | 185   | 179,000   | 170   | 167,000   | 160   | 158,000   | 150   | 148,000   | 135   | 127,000   | 115   |   |       |
| 251    | 5000             | 4.26             | 195,000   | 215   | 187,000   | 200   | 178,000   | 185   | 170,000   | 175   | 160,000   | 160   | 141,000   | 140   | 119,000   | 115   |
| 264    | 5250             | 4.70             | 208,000   | 250   | 200,000   | 240   | 193,000   | 225   | 184,000   | 210   | 176,000   | 200   | 158,000   | 175   | 130,000   | 150   |
| 276    | 5500             | 5.16             |   |       | 213,000   | 280   | 206,000   | 270   | 199,000   | 255   | 191,000   | 240   | 174,000   | 215   | 156,000   | 185   |
| 289    | 5750             | 5.64             |   |       | 226,000   | 330   | 219,000   | 315   | 212,000   | 300   | 205,000   | 285   | 189,000   | 255   | 173,000   | 225   |
| 302    | 6000             | 6.14             |   |       | 238,000   | 380   | 232,000   | 365   | 226,000   | 350   | 219,000   | 335   | 205,000   | 305   | 190,000   | 275   |
| 314    | 6250             | 6.66             |   |       |   |       | 239,000   | 410   | 239,000   | 410   | 232,000   | 390   | 219,000   | 355   | 205,000   | 325   |
| 327    | 6500             | 7.20             |   |       |   |       | 258,000   | 485   | 252,000   | 465   | 245,000   | 445   | 233,000   | 415   | 220,000   | 380   |
| 339    | 6750             | 7.76             |   |       |   |       |   |       | 265,000   | 530   | 259,000   | 515   | 246,000   | 475   | 234,000   | 440   |
| 352    | 7000             | 8.85             |   |       |   |       |   |       | 278,000   | 600   |   | 585   | 260,000   | 545   | 249,000   | 510   |
| 377    | 7500             | 9.59             |   |       |   |       |   |       |   |       | 297,000   | 745   | 287,000   | 700   | 276,000   | 660   |
| 402    | 8000             | 10.91            |   |       |   |       |   |       |   |       |   |       | 313,000   | 880   | 303,000   | 840   |
| 427    | 8500             | 12.32            |   |       |   |       |   |       |   |       |   |       | 338,000   | 1090  | 329,000   | 1040  |
| 452    | 9000             | 13.81            |   |       |   |       |   |       |   |       |   |       |   |       | 355,000   | 1280  |
| 478    | 9500             | 15.40            |   |       |   |       |   |       |   |       |   |       |   |       | 379,000   | 1530  |
| 503    | 10000            | 17.05            |   |       |   |       |   |       |   |       |   |       |   |       |   |       |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 3 1/2" Water 2.02 ozs. per sq. inch |       | Static Pressure 4" Water 2.31 ozs. per sq. inch     |       | Static Pressure 5" Water 2.89 ozs. per sq. inch     |       | Static Pressure 6" Water 3.47 ozs. per sq. inch     |       | Static Pressure 7" Water 4.05 ozs. per sq. inch   |       | Static Pressure 8" Water 4.63 ozs. per sq. inch     |       | Static Pressure 9" Water 5.2 ozs. per sq. inch      |       |
| 264    | 5250             | 4.70             | 113,000   | 115   |   |       |   |       |   |       |   |       |   |       |   |       |
| 276    | 5500             | 5.16             | 137,000   | 160   | 113,000   | 125   |   |       |   |       |   |       |   |       |   |       |
| 289    | 5750             | 5.64             | 155,000   | 200   | 135,000   | 170   |   |       |   |       |   |       |   |       |   |       |
| 302    | 6000             | 6.14             | 172,000   | 245   | 155,000   | 215   | 98,000  | 130   |   |       |   |       |   |       |   |       |
| 314    | 6250             | 6.66             | 190,000   | 295   | 173,000   | 265   | 135,000   | 195   |   |       |   |       |   |       |   |       |
| 327    | 6500             | 7.20             | 206,000   | 350   | 190,000   | 320   | 157,000   | 250   |   |       |   |       |   |       |   |       |
| 339    | 6750             | 7.76             | 221,000   | 410   | 207,000   | 375   | 176,000   | 310   | 138,000   | 230   |   |       |   |       |   |       |
| 352    | 7000             | 8.85             | 236,000   | 475   | 223,000   | 440   | 194,000   | 370   | 162,000   | 300   |   |       |   |       |   |       |
| 377    | 7500             | 9.59             | 265,000   | 625   | 253,000   | 585   | 228,000   | 515   | 201,000   | 440   | 170,000   | 355   |   |       |   |       |
| 402    | 8000             | 10.91            | 293,000   | 795   | 282,000   | 755   | 261,000   | 680   | 236,000   | 595   | 210,000   | 515   | 180,000   | 430   |   |       |
| 427    | 8500             | 12.32            | 321,000   | 995   | 310,000   | 950   | 290,000   | 865   | 268,000   | 780   | 245,000   | 695   | 220,000   | 615   | 192,000   | 520   |
| 452    | 9000             | 13.81            | 346,000   | 1220  | 337,000   | 1170  | 318,000   | 1080  | 299,000   | 995   | 279,000   | 910   | 256,000   | 815   | 232,000   | 730   |
| 478    | 9500             | 15.40            | 372,000   | 1480  | 364,000   | 1420  | 347,000   | 1330  | 329,000   | 1230  | 310,000   | 1140  | 290,000   | 1050  | 269,000   | 955   |
| 503    | 10000            | 17.05            | 397,000   | 1760  | 390,000   | 1710  | 374,000   | 1600  | 357,000   | 1490  | 340,000   | 1400  | 321,000   | 1300  | 302,000   | 1200  |

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| R.P.M. | Tip<br>Speed<br>F.P.M. | S.N.D.<br>in<br>inches | Static Pressure<br>1" Water<br>.578 ozs. per<br>sq. inch | Static Pressure<br>1 1/4" Water<br>.723 ozs. per<br>sq. inch | Static Pressure<br>1 1/2" Water<br>.878 ozs. per<br>sq. inch | Static Pressure<br>1 3/4" Water<br>1.01 ozs. per<br>sq. inch | Static Pressure<br>2" Water<br>1.16 ozs. per<br>sq. inch | Static Pressure<br>2 1/2" Water<br>1.45 ozs. per<br>sq. inch | Static Pressure<br>3" Water<br>1.73 ozs. per<br>sq. inch |
|--------|------------------------|------------------------|--|--|--|--|--|--|--|
| 127    | 2400                   | 1.34                   | 74,600   | 21.5   |  |  |  |  |  |
| 136    | 3000                   | 1.54                   | 94,500   | 33   | 61,000   | 20   |  |  |  |
| 145    | 3200                   | 1.75                   | 112,000  | 45   | 91,100   | 35   |  |  |  |
| 155    | 3400                   | 1.97                   | 128,000  | 60   | 110,000  | 49   | 87,900   | 37   |  |
| 164    | 3600                   | 2.21                   | 143,000  | 76   | 127,000  | 64   | 109,000  | 54   |  |
| 173    | 3800                   | 2.46                   | 158,000  | 94   | 143,000  | 82   | 127,000  | 72   |  |
| 182    | 4000                   | 2.73                   | 172,000  | 115  | 159,000  | 105  | 144,000  | 92   |  |
| 191    | 4200                   | 3.01                   | 186,000  | 140  | 174,000  | 125  | 160,000  | 115  |  |
| 200    | 4400                   | 3.30                   | 199,000  | 165  | 187,000  | 150  | 175,000  | 140  |  |
| 209    | 4600                   | 3.61                   | 212,000  | 195  | 201,000  | 180  | 190,000  | 165  |  |
| 218    | 4800                   | 3.93                   | 225,000  | 225  | 215,000  | 210  | 208,000  | 195  |  |
| 228    | 5000                   | 4.26                   | 238,000  | 260  | 228,000  | 245  | 218,000  | 230  |  |
| 239    | 5250                   | 4.70                   | 253,000  | 310  | 244,000  | 290  | 235,000  | 275  |  |
| 250    | 5500                   | 5.16                   |  |  | 260,000  | 345  | 251,000  | 325  |  |
| 262    | 5750                   | 5.64                   |  |  | 275,000  | 400  | 267,000  | 385  |  |
| 273    | 6000                   | 6.14                   |  |  | 291,000  | 465  | 283,000  | 445  |  |
| 284    | 6250                   | 6.66                   |  |  |  |  | 298,000  | 515  |  |
| 296    | 6500                   | 7.20                   |  |  |  |  | 314,000  | 590  |  |
| 307    | 6750                   | 7.76                   |  |  |  |  |  |  |  |
| 318    | 7000                   | 8.85                   |  |  |  |  | 323,000  | 645  |  |
| 341    | 7500                   | 9.59                   |  |  |  |  | 338,000  | 735  |  |
| 364    | 8000                   | 10.91                  |  |  |  |  |  |  |  |
| 386    | 8500                   | 12.32                  |  |  |  |  | 331,000  | 710  |  |
| 409    | 9000                   | 13.81                  |  |  |  |  | 363,000  | 910  |  |
| 432    | 9500                   | 15.40                  |  |  |  |  |  |  |  |
| 455    | 10000                  | 17.05                  |  |  |  |  |  |  |  |

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## Double Inlet

## Size "S" Supervane Fan—Design 1

## Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. |
|--------|------------------|------------------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|
|        |                  |                  | Static Pressure 1/2" Water .0722 ozs. per sq. inch  |       | Static Pressure 1/2" Water .145 ozs. per sq. inch   |       | Static Pressure 3/4" Water .217 ozs. per sq. inch   |       | Static Pressure 1" Water .289 ozs. per sq. inch     |       | Static Pressure 1 1/4" Water .361 ozs. per sq. inch |       | Static Pressure 1 1/2" Water .434 ozs. per sq. inch |       | Static Pressure 1 3/4" Water .506 ozs. per sq. inch |       |
| 41     | 1000             | 0 171            | 32,000  | 1 25  |   |       |   |       |   |       |   |       |   |       |   |       |
| 50     | 1200             | 0 246            | 54,200  | 3 1   |   |       |   |       |   |       |   |       |   |       |   |       |
| 58     | 1400             | 0 334            | 71,900  | 5 8   | 44,600  | 3 25  |   |       |   |       |   |       |   |       |   |       |
| 66     | 1600             | 0 436            | 87,900  | 9 7   | 67,100  | 6 8   |   |       |   |       |   |       |   |       |   |       |
| 75     | 1800             | 0 552            | 103,000   | 14 5  | 86,200  | 11 5  | 65,200  | 8 1   |   |       |   |       |   |       |   |       |
| 83     | 2000             | 0 682            |   |       | 103,000   | 17 0  | 86,100  | 13 5  | 65,800  | 9 8   |   |       |   |       |   |       |
| 91     | 2200             | 0 825            |   |       | 120,000   | 21 5  | 105,000   | 20 5  | 87,700  | 16 5  | 68,800  | 12 5  |   |       |   |       |
| 100    | 2400             | 0 981            |   |       | 135,000   | 34    | 122,000   | 29    | 108,000   | 25    | 92,600  | 20 5  | 73,400  | 15 5  |   |       |
| 108    | 2600             | 1 15             |   |       | 150,000   | 45    | 139,000   | 40    | 127,000   | 35    | 113,000   | 30    | 98,300  | 26    | 80,600  | 20    |
| 116    | 2800             | 1 34             |   |       |   |       | 154,000   | 52    | 144,000   | 47    | 133,000   | 42    | 119,000   | 37    | 106,000   | 32    |
| 125    | 3000             | 1 54             |   |       |   |       | 169,000   | 66    | 160,000   | 60    | 150,000   | 56    | 139,000   | 50    | 126,000   | 45    |
| 133    | 3200             | 1 75             |   |       |   |       | 185,000   | 86    | 176,000   | 78    | 167,000   | 72    | 157,000   | 66    | 145,000   | 60    |
| 141    | 3400             | 1 97             |   |       |   |       |   |       | 191,000   | 96    | 183,000   | 90    | 174,000   | 84    | 161,000   | 78    |
| 149    | 3600             | 2 21             |   |       |   |       |   |       | 206,000   | 120   | 198,000   | 110   | 190,000   | 105   | 181,000   | 98    |
| 158    | 3800             | 2 46             |   |       |   |       |   |       | 221,000   | 140   | 213,000   | 135   | 206,000   | 125   | 198,000   | 120   |
| 166    | 4000             | 2 73             |   |       |   |       |   |       |   |       | 229,000   | 160   | 221,000   | 155   | 214,000   | 145   |
| 174    | 4200             | 3 01             |   |       |   |       |   |       |   |       | 244,000   | 190   | 237,000   | 185   | 230,000   | 175   |
| 183    | 4400             | 3 30             |   |       |   |       |   |       |   |       |   |       | 252,000   | 215   | 246,000   | 205   |
| 191    | 4600             | 3 61             |   |       |   |       |   |       |   |       |   |       | 267,000   | 250   | 261,000   | 240   |
| 199    | 4800             | 3 93             |   |       |   |       |   |       |   |       |   |       |   |       | 276,000   | 280   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 ozs. per sq. inch     |       | Static Pressure 1 1/4" Water .723 ozs. per sq. inch |       | Static Pressure 1 1/2" Water .878 ozs. per sq. inch |       | Static Pressure 1 3/4" Water 1.01 ozs. per sq. inch |       | Static Pressure 2" Water 1.16 ozs. per sq. inch     |       | Static Pressure 2 1/2" Water 1.45 ozs. per sq. inch |       | Static Pressure 3" Water 1.73 ozs. per sq. inch     |       |
| 116    | 2800             | 1 34             | 89,400  | 26    |   |       |   |       |   |       |   |       |   |       |   |       |
| 125    | 3000             | 1 54             | 113,000   | 39    | 73,100  | 24    |   |       |   |       |   |       |   |       |   |       |
| 133    | 3200             | 1 75             | 134,000   | 51    | 109,000   | 42    |   |       |   |       |   |       |   |       |   |       |
| 141    | 3400             | 1 97             | 154,000   | 72    | 132,000   | 60    | 105,000   | 45    |   |       |   |       |   |       |   |       |
| 149    | 3600             | 2 21             | 172,000   | 90    | 152,000   | 78    | 130,000   | 64    | 101,000   | 47    |   |       |   |       |   |       |
| 158    | 3800             | 2 46             | 190,000   | 115   | 172,000   | 100   | 152,000   | 86    | 130,000   | 70    | 92,600  | 49    |   |       |   |       |
| 166    | 4000             | 2 73             | 206,000   | 140   | 190,000   | 125   | 173,000   | 110   | 153,000   | 96    | 132,000   | 78    |   |       |   |       |
| 174    | 4200             | 3 01             | 223,000   | 165   | 208,000   | 150   | 192,000   | 135   | 174,000   | 120   | 155,000   | 105   |   |       |   |       |
| 183    | 4400             | 3 30             | 248,000   | 195   | 224,000   | 180   | 210,000   | 165   | 194,000   | 150   | 175,000   | 135   | 137,000   | 98    |   |       |
| 191    | 4600             | 3 61             | 254,000   | 235   | 241,000   | 215   | 228,000   | 200   | 213,000   | 180   | 197,000   | 165   | 163,000   | 130   |   |       |
| 199    | 4800             | 3 93             | 269,000   | 270   | 258,000   | 250   | 244,000   | 235   | 231,000   | 215   | 217,000   | 200   | 186,000   | 165   | 147,000   | 125   |
| 208    | 5000             | 4 26             | 285,000   | 315   | 274,000   | 290   | 261,000   | 275   | 248,000   | 255   | 239,000   | 235   | 206,000   | 205   | 174,000   | 165   |
| 218    | 5250             | 4 70             | 303,000   | 370   | 292,000   | 350   | 281,000   | 330   | 269,000   | 310   | 258,000   | 290   | 230,000   | 255   | 203,000   | 215   |
| 228    | 5500             | 5 16             |   |       | 312,000   | 415   | 300,000   | 390   | 290,000   | 370   | 279,000   | 350   | 254,000   | 310   | 228,000   | 270   |
| 239    | 5750             | 5 64             |   |       | 330,000   | 480   | 320,000   | 460   | 309,000   | 435   | 299,000   | 415   | 278,000   | 375   | 253,000   | 330   |
| 249    | 6000             | 6 14             |   |       | 349,000   | 560   | 339,000   | 535   | 329,000   | 510   | 319,000   | 485   | 299,000   | 445   | 276,000   | 400   |
| 260    | 6250             | 6 66             |   |       |   |       | 358,000   | 615   | 349,000   | 600   | 339,000   | 565   | 320,000   | 520   | 299,000   | 475   |
| 270    | 6500             | 7 20             |   |       |   |       | 377,000   | 710   | 367,000   | 680   | 358,000   | 655   | 341,000   | 605   | 321,000   | 555   |
| 280    | 6750             | 7 76             |   |       |   |       |   |       | 386,000   | 775   | 378,000   | 750   | 360,000   | 695   | 342,000   | 645   |
| 291    | 7000             | 8 85             |   |       |   |       |   |       | 405,000   | 880   | 397,000   | 855   | 380,000   | 795   | 363,000   | 740   |
| 312    | 7500             | 9 59             |   |       |   |       |   |       |   |       | 434,000   | 1090  | 419,000   | 1020  | 403,000   | 965   |
| 332    | 8000             | 10 91            |   |       |   |       |   |       |   |       |   |       | 457,000   | 1290  | 442,000   | 1230  |
| 353    | 8500             | 12 32            |   |       |   |       |   |       |   |       |   |       | 494,000   | 1590  | 481,000   | 1520  |
| 374    | 9000             | 13 81            |   |       |   |       |   |       |   |       |   |       |   |       | 518,000   | 1860  |
| 394    | 9500             | 15 40            |   |       |   |       |   |       |   |       |   |       |   |       | 555,000   | 2240  |
| 415    | 10000            | 17 05            |   |       |   |       |   |       |   |       |   |       |   |       |   |       |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 3 1/2" Water 2.02 ozs. per sq. inch |       | Static Pressure 4" Water 2.31 ozs. per sq. inch     |       | Static Pressure 5" Water 2.89 ozs. per sq. inch     |       | Static Pressure 6" Water 3.47 ozs. per sq. inch     |       | Static Pressure 7" Water 4.05 ozs. per sq. inch     |       | Static Pressure 8" Water 4.63 ozs. per sq. inch     |       | Static Pressure 9" Water 5.2 ozs. per sq. inch      |       |
| 218    | 5250             | 4 70             | 165,000   | 170   |   |       |   |       |   |       |   |       |   |       |   |       |
| 228    | 5500             | 5 16             | 199,000   | 230   | 164,000   | 180   |   |       |   |       |   |       |   |       |   |       |
| 239    | 5750             | 5 64             | 227,000   | 290   | 198,000   | 245   |   |       |   |       |   |       |   |       |   |       |
| 249    | 6000             | 6 14             | 252,000   | 355   | 226,000   | 315   | 144,000   | 190   |   |       |   |       |   |       |   |       |
| 260    | 6250             | 6 66             | 277,000   | 430   | 253,000   | 385   | 198,000   | 285   |   |       |   |       |   |       |   |       |
| 270    | 6500             | 7 20             | 300,000   | 510   | 278,000   | 465   | 229,000   | 370   |   |       |   |       |   |       |   |       |
| 280    | 6750             | 7 76             | 323,000   | 600   | 302,000   | 550   | 257,000   | 450   | 202,000   | 335   |   |       |   |       |   |       |
| 291    | 7000             | 8 85             | 344,000   | 690   | 326,000   | 645   | 284,000   | 545   | 237,000   | 435   |   |       |   |       |   |       |
| 312    | 7500             | 9 59             | 387,000   | 910   | 370,000   | 855   | 334,000   | 750   | 283,000   | 640   |   |       |   |       |   |       |
| 332    | 8000             | 10 91            | 427,000   | 1160  | 413,000   | 1100  | 381,000   | 990   | 345,000   | 870   | 248,000   | 520   |   |       |   |       |
| 353    | 8500             | 12 32            | 467,000   | 1450  | 453,000   | 1390  | 423,000   | 1260  | 392,000   | 1140  | 305,000   | 750   | 263,000   | 630   |   |       |
| 374    | 9000             | 13 81            | 505,000   | 1780  | 492,000   | 1710  | 465,000   | 1570  | 437,000   | 1450  | 358,000   | 1020  | 322,000   | 895   | 280,000   | 760   |
| 394    | 9500             | 15 40            | 544,000   | 2160  | 531,000   | 2080  | 507,000   | 1940  | 480,000   | 1790  | 408,000   | 1330  | 374,000   | 1190  | 340,000   | 1060  |
| 415    | 10000            | 17 05            | 548,000   | 2580  | 569,000   | 2500  | 546,000   | 2330  | 521,000   | 2180  | 496,000   | 2040  | 460,000   | 1900  | 441,000   | 1760  |

# Double Inlet Size "T" Supervane Fan—Design 1 Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M. H. P. Static Pressure 1" Water .0722 oza. per sq. inch | Volume C.F.M. H. P. Static Pressure 1 1/4" Water .145 oza. per sq. inch | Volume C.F.M. H. P. Static Pressure 1 1/2" Water .217 oza. per sq. inch | Volume C.F.M. H. P. Static Pressure 1 3/4" Water .289 oza. per sq. inch | Volume C.F.M. H. P. Static Pressure 2" Water .361 oza. per sq. inch | Volume C.F.M. H. P. Static Pressure 2 1/4" Water .434 oza. per sq. inch | Volume C.F.M. H. P. Static Pressure 2 1/2" Water .506 oza. per sq. inch |
|--------|------------------|------------------|--|---|---|---|---|---|---|
| 38     | 1000             | 0 171            | 38,000 1.45  |   |   |   |   |   |   |
| 46     | 1200             | 0 246            | 61,100 3.7   |   |   |   |   |   |   |
| 53     | 1400             | 0 334            | 84,900 6.9   | 52,600 3.85   |   |   |   |   |   |
| 61     | 1600             | 0 436            | 104,000 11.5   | 79,300 8.0  |   |   |   |   |   |
| 69     | 1800             | 0 552            | 122,000 17.5   | 102,000 19.5  | 77,100 9.6  |   |   |   |   |
| 76     | 2000             | 0 682            |  | 122,000 20.5  | 102,000 16.0  | 77,900 11.5   |   |   |   |
| 84     | 2200             | 0 825            |  | 111,000 29  | 124,000 21.5  | 104,000 19.5  | 81,300 14.5   |   |   |
| 92     | 2400             | 0 981            |  | 159,000 40  | 144,000 34  | 128,000 30  | 110,000 24.5  | 86,600 18.5   |   |
| 99     | 2600             | 1 15             |  | 177,000 54  | 164,000 47  | 150,000 42  | 133,000 36  | 116,000 30  | 95,300 23.5   |
| 107    | 2800             | 1 34             |  |   | 183,000 62  | 170,000 56  | 157,000 50  | 141,000 44  | 125,000 38  |
| 115    | 3000             | 1 54             |  |   | 200,000 78  | 189,000 72  | 177,000 66  | 164,000 60  | 149,000 54  |
| 122    | 3200             | 1 75             |  |   | 218,000 100   | 208,000 92  | 197,000 84  | 185,000 78  | 172,000 70  |
| 130    | 3400             | 1 97             |  |   |   | 226,000 115   | 216,000 105   | 205,000 98  | 193,000 92  |
| 138    | 3600             | 2 21             |  |   |   | 244,000 140   | 234,000 130   | 225,000 125   | 214,000 115   |
| 145    | 3800             | 2 46             |  |   |   | 261,000 165   | 252,000 160   | 243,000 150   | 234,000 140   |
| 153    | 4000             | 2 73             |  |   |   |   | 270,000 190   | 262,000 180   | 253,000 170   |
| 160    | 4200             | 3 01             |  |   |   |   | 288,000 235   | 280,000 215   | 271,000 205   |
| 168    | 4400             | 3 30             |  |   |   |   |   | 298,000 255   | 290,000 245   |
| 176    | 4600             | 3 61             |  |   |   |   |   | 315,000 295   | 308,000 285   |
| 183    | 4800             | 3 93             |  |   |   |   |   |   | 326,000 330   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 oza. per sq. inch                      | Static Pressure 1 1/4" Water .723 oza. per sq. inch                     | Static Pressure 1 1/2" Water .878 oza. per sq. inch                     | Static Pressure 1 3/4" Water 1.01 oza. per sq. inch                     | Static Pressure 2" Water 1.16 oza. per sq. inch                     | Static Pressure 2 1/4" Water 1.45 oza. per sq. inch                     | Static Pressure 2 1/2" Water 1.73 oza. per sq. inch                     |
| 107    | 2800             | 1 34             | 106,000 31   |   |   |   |   |   |   |
| 115    | 3000             | 1 54             | 134,000 46   | 86,500 29   |   |   |   |   |   |
| 122    | 3200             | 1 75             | 158,000 64   | 129,000 50  |   |   |   |   |   |
| 130    | 3400             | 1 97             | 183,000 84   | 156,000 70  | 124,000 54  |   |   |   |   |
| 138    | 3600             | 2 21             | 203,000 105  | 180,000 92  | 154,000 76  | 119,000 56  |   |   |   |
| 145    | 3800             | 2 46             | 221,000 135  | 203,000 115   | 180,000 100   | 154,000 84  | 109,000 58  |   |   |
| 153    | 4000             | 2 73             | 241,000 165  | 225,000 145   | 204,000 130   | 181,000 110   | 156,000 92  |   |   |
| 160    | 4200             | 3 01             | 263,000 195  | 246,000 180   | 227,000 160   | 206,000 145   | 183,000 125   |   |   |
| 168    | 4400             | 3 30             | 282,000 235  | 265,000 215   | 248,000 195   | 229,000 175   | 207,000 155   | 162,000 115   |   |
| 176    | 4600             | 3 61             | 301,000 275  | 285,000 255   | 269,000 235   | 252,000 215   | 233,000 195   | 193,000 155   |   |
| 183    | 4800             | 3 93             | 319,000 320  | 304,000 300   | 288,000 275   | 273,000 255   | 256,000 235   | 219,000 195   | 174,000 145   |
| 191    | 5000             | 4 26             | 337,000 370  | 323,000 345   | 308,000 325   | 294,000 300   | 277,000 280   | 244,000 240   | 205,000 195   |
| 201    | 5250             | 4 70             | 358,000 440  | 346,000 415   | 333,000 390   | 318,000 365   | 305,000 345   | 273,000 300   | 239,000 255   |
| 210    | 5500             | 5 16             |  | 369,000 490   | 356,000 460   | 343,000 440   | 330,000 415   | 301,000 370   | 269,000 320   |
| 220    | 5750             | 5 64             |  | 390,000 570   | 379,000 545   | 365,000 515   | 354,000 490   | 327,000 440   | 299,000 390   |
| 229    | 6000             | 6 14             |  | 412,000 660   | 401,000 630   | 389,000 605   | 378,000 575   | 354,000 525   | 327,000 475   |
| 239    | 6250             | 6 66             |  |   | 423,000 730   | 413,000 705   | 401,000 670   | 378,000 615   | 354,000 565   |
| 248    | 6500             | 7 20             |  |   | 445,000 835   | 434,000 800   | 424,000 775   | 403,000 715   | 379,000 660   |
| 258    | 6750             | 7 76             |  |   |   | 457,000 915   | 447,000 885   | 426,000 820   | 405,000 765   |
| 268    | 7000             | 8 85             |  |   |   | 479,000 1040  | 469,000 1010  | 449,000 940   | 430,000 880   |
| 286    | 7500             | 9 59             |  |   |   |   | 514,000 1290  | 495,000 1210  | 477,000 1140  |
| 306    | 8000             | 10 91            |  |   |   |   |   | 540,000 1520  | 523,000 1450  |
| 325    | 8500             | 12 32            |  |   |   |   |   | 584,000 1880  | 569,000 1790  |
| 344    | 9000             | 13 81            |  |   |   |   |   |   | 614,000 2200  |
| 363    | 9500             | 15 40            |  |   |   |   |   |   | 656,000 2650  |
| 382    | 10000            | 17 05            |  |   |   |   |   |   |   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 3 1/2" Water 2.02 oza. per sq. inch                  | Static Pressure 4" Water 2.31 oza. per sq. inch                         | Static Pressure 5" Water 2.89 oza. per sq. inch                         | Static Pressure 6" Water 3.47 oza. per sq. inch                         | Static Pressure 7" Water 4.05 oza. per sq. inch                     | Static Pressure 8" Water 4.63 oza. per sq. inch                         | Static Pressure 9" Water 5.2 oza. per sq. inch                          |
| 201    | 5250             | 4 70             | 195,000 200  |   |   |   |   |   |   |
| 210    | 5500             | 5 16             | 236,000 275  | 194,000 215   |   |   |   |   |   |
| 220    | 5750             | 5 64             | 268,000 345  | 234,000 290   |   |   |   |   |   |
| 229    | 6000             | 6 14             | 298,000 420  | 267,000 370   | 170,000 225   |   |   |   |   |
| 239    | 6250             | 6 66             | 328,000 510  | 299,000 455   | 234,000 340   |   |   |   |   |
| 248    | 6500             | 7 20             | 355,000 605  | 329,000 550   | 271,000 435   |   |   |   |   |
| 258    | 6750             | 7 76             | 382,000 705  | 358,000 650   | 304,000 535   | 239,000 395   |   |   |   |
| 268    | 7000             | 8 85             | 407,000 820  | 385,000 765   | 336,000 645   | 280,000 515   |   |   |   |
| 286    | 7500             | 9 59             | 458,000 1080   | 438,000 1010  | 395,000 885   | 347,000 755   | 293,000 615   |   |   |
| 306    | 8000             | 10 91            | 505,000 1370   | 488,000 1310  | 450,000 1170  | 408,000 1030  | 361,000 890   | 311,000 745   |   |
| 325    | 8500             | 12 32            | 552,000 1710   | 536,000 1610  | 501,000 1490  | 463,000 1350  | 423,000 1210  | 380,000 1060  | 331,000 895   |
| 344    | 9000             | 13 81            | 598,000 2110   | 582,000 2020  | 550,000 1860  | 518,000 1710  | 482,000 1570  | 443,000 1410  | 401,000 1260  |
| 363    | 9500             | 15 40            | 643,000 2550   | 628,000 2460  | 600,000 2290  | 560,000 2120  | 536,000 1970  | 501,000 1810  | 464,000 1650  |
| 382    | 10000            | 17 05            | 686,000 3050   | 673,000 2950  | 646,000 2760  | 616,000 2570  | 586,000 2410  | 555,000 2250  | 523,000 2080  |

Double Inlet

## Size "U" Supervane Fan—Design 1

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M. H. P. Static Pressure 1/2" Water .0722 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1/2" Water .145 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 3/4" Water .217 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1" Water .289 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1 1/4" Water .361 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1 1/2" Water .434 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1 3/4" Water .506 ozs. per sq. inch |
|--------|------------------|------------------|--|---|---|---|---|---|---|
| 35     | 1000             | 0 171            | 35,500 1.7   |   |   |   |   |   |   |
| 42     | 1200             | 0 246            | 75,000 4.3   |   |   |   |   |   |   |
| 50     | 1400             | 0 334            | 98,900 8.1   | 61,700 4.5  |   |   |   |   |   |
| 57     | 1600             | 0 436            | 121,000 13.5   | 92,800 9.3  |   |   |   |   |   |
| 64     | 1800             | 0 552            | 143,000 20.5   | 119,000 15.5  | 90,300 11   |   |   |   |   |
| 71     | 2000             | 0 682            |  | 143,000 24  | 119,000 19  | 91,000 13.5   |   |   |   |
| 78     | 2200             | 0 825            |  | 165,000 34  | 146,000 25  | 121,000 23  | 95,200 17   |   |   |
| 85     | 2400             | 0 981            |  | 187,000 47  | 169,000 40  | 150,000 35  | 128,000 29  | 102,000 21.5  |   |
| 92     | 2600             | 1 15             |  | 208,000 62  | 192,000 54  | 175,000 48  | 156,000 42  | 136,000 35  | 112,000 28  |
| 99     | 2800             | 1 34             |  |   | 214,000 72  | 199,000 64  | 183,000 58  | 165,000 50  | 146,000 44  |
| 106    | 3000             | 1 54             |  |   | 235,000 92  | 221,000 84  | 208,000 76  | 192,000 70  | 174,000 62  |
| 113    | 3200             | 1 75             |  |   | 256,000 120   | 244,000 105   | 230,000 98  | 216,000 90  | 201,000 82  |
| 120    | 3400             | 1 97             |  |   |   |   |   |   |   |
| 128    | 3600             | 2 21             |  |   |   | 264,000 135   | 253,000 125   | 240,000 115   | 226,000 105   |
| 135    | 3800             | 2 46             |  |   |   | 285,000 165   | 274,000 155   | 263,000 145   | 250,000 135   |
| 142    | 4000             | 2 73             |  |   |   | 305,000 195   | 295,000 185   | 285,000 175   | 274,000 165   |
| 149    | 4200             | 3 01             |  |   |   |   | 316,000 225   | 306,000 210   | 296,000 200   |
| 156    | 4400             | 3 30             |  |   |   |   | 337,000 265   | 328,000 255   | 318,000 240   |
| 163    | 4600             | 3 61             |  |   |   |   |   | 348,000 295   | 340,000 285   |
| 170    | 4800             | 3 93             |  |   |   |   |   | 369,000 345   | 361,000 335   |
|        |                  |                  |  |   |   |   |   |   | 381,000 390   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 ozs. per sq. inch                        | Static Pressure 1 1/4" Water .723 ozs. per sq. inch                   | Static Pressure 1 1/2" Water .878 ozs. per sq. inch                   | Static Pressure 1 3/4" Water 1.01 ozs. per sq. inch                 | Static Pressure 2" Water 1.16 ozs. per sq. inch                         | Static Pressure 2 1/4" Water 1.45 ozs. per sq. inch                     | Static Pressure 2 1/2" Water 1.73 ozs. per sq. inch                     |
| 99     | 2800             | 1 34             | 124,000 36   |   |   |   |   |   |   |
| 106    | 3000             | 1 54             | 157,000 54   | 101,000 34  |   |   |   |   |   |
| 113    | 3200             | 1 75             | 186,000 74   | 151,000 58  |   |   |   |   |   |
| 120    | 3400             | 1 97             | 213,000 98   | 182,000 82  | 146,000 62  |   |   |   |   |
| 128    | 3600             | 2 21             | 238,000 125  | 211,000 110   | 181,000 90  | 139,000 66  |   |   |   |
| 135    | 3800             | 2 46             | 262,000 155  | 238,000 135   | 210,000 120   | 180,000 98  | 128,000 68  |   |   |
| 142    | 4000             | 2 73             | 286,000 190  | 264,000 170   | 239,000 150   | 213,000 130   | 182,000 110   |   |   |
| 149    | 4200             | 3 01             | 308,000 230  | 288,000 210   | 265,000 190   | 241,000 165   | 215,000 145   |   |   |
| 156    | 4400             | 3 30             | 330,000 275  | 310,000 250   | 291,000 230   | 268,000 205   | 243,000 185   | 190,000 135   |   |
| 163    | 4600             | 3 61             | 352,000 320  | 334,000 295   | 315,000 275   | 295,000 250   | 273,000 230   | 226,000 180   |   |
| 170    | 4800             | 3 93             | 373,000 375  | 356,000 350   | 337,000 320   | 320,000 300   | 300,000 275   | 207,000 230   | 203,000 170   |
| 177    | 5000             | 4 26             | 394,000 435  | 378,000 405   | 361,000 380   | 344,000 355   | 325,000 330   | 285,000 280   | 240,000 230   |
| 186    | 5250             | 4 70             | 420,000 515  | 405,000 485   | 390,000 455   | 372,000 430   | 357,000 405   | 319,000 350   | 280,000 300   |
| 195    | 5500             | 5 16             |  | 431,000 570   | 416,000 540   | 402,000 515   | 386,000 485   | 352,000 430   | 315,000 375   |
| 204    | 5750             | 5 64             |  | 456,000 665   | 443,000 635   | 428,000 600   | 414,000 575   | 383,000 515   | 350,000 490   |
| 213    | 6000             | 6 14             |  |   | 469,000 740   | 456,000 705   | 442,000 675   | 414,000 615   | 383,000 555   |
| 222    | 6250             | 6 66             |  |   | 495,000 855   | 483,000 830   | 469,000 785   | 442,000 720   | 414,000 690   |
| 230    | 6500             | 7 20             |  |   | 521,000 980   | 509,000 940   | 496,000 905   | 472,000 840   | 444,000 770   |
| 238    | 6750             | 7 76             |  |   |   | 535,000 1070  | 523,000 1040  | 499,000 960   | 474,000 895   |
| 248    | 7000             | 8 85             |  |   |   | 561,000 1220  | 549,000 1180  | 526,000 1100  | 503,000 1030  |
| 265    | 7500             | 9 59             |  |   |   |   | 601,000 1510  | 580,000 1420  | 559,000 1340  |
| 283    | 8000             | 10 91            |  |   |   |   |   | 633,000 1780  | 612,000 1700  |
| 301    | 8500             | 12 32            |  |   |   |   |   | 684,000 2200  | 665,000 2100  |
| 318    | 9000             | 13 81            |  |   |   |   |   |   | 718,000 2580  |
| 336    | 9500             | 15 40            |  |   |   |   |   |   | 768,000 3100  |
| 353    | 10000            | 17 05            |  |   |   |   |   |   |   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 3 1/2" Water 2.62 ozs. per sq. inch                    | Static Pressure 4" Water 2.31 ozs. per sq. inch                       | Static Pressure 5" Water 2.89 ozs. per sq. inch                       | Static Pressure 6" Water 3.47 ozs. per sq. inch                     | Static Pressure 7" Water 4.05 ozs. per sq. inch                         | Static Pressure 8" Water 4.63 ozs. per sq. inch                         | Static Pressure 9" Water 5.2 ozs. per sq. inch                          |
| 186    | 5250             | 4 70             | 228,000 235  |   |   |   |   |   |   |
| 195    | 5500             | 5 16             | 276,000 320  | 228,000 250   |   |   |   |   |   |
| 204    | 5750             | 5 64             | 313,000 405  | 274,000 340   |   |   |   |   |   |
| 213    | 6000             | 6 14             | 348,000 495  | 313,000 435   | 199,000 265   |   |   |   |   |
| 222    | 6250             | 6 66             | 383,000 595  | 351,000 535   | 274,000 395   |   |   |   |   |
| 230    | 6500             | 7 20             | 416,000 705  | 385,000 645   | 317,000 510   |   |   |   |   |
| 238    | 6750             | 7 76             | 447,000 830  | 419,000 700   | 356,000 625   | 280,000 465   |   |   |   |
| 248    | 7000             | 8 85             | 476,000 960  | 450,000 890   | 393,000 755   | 328,000 605   |   |   |   |
| 265    | 7500             | 9 59             | 536,000 1260   | 512,000 1190  | 462,000 1040  | 406,000 885   | 343,000 720   |   |   |
| 283    | 8000             | 10 91            | 591,000 1610   | 571,000 1530  | 526,000 1370  | 478,000 1210  | 422,000 1040  | 364,000 870   |   |
| 301    | 8500             | 12 32            | 646,000 2010   | 628,000 1920  | 586,000 1750  | 542,000 1580  | 496,000 1410  | 445,000 1240  | 386,000 1050  |
| 318    | 9000             | 13 81            | 700,000 2470   | 681,000 2370  | 644,000 2180  | 605,000 2010  | 565,000 1840  | 519,000 1650  | 470,000 1470  |
| 336    | 9500             | 15 40            | 753,000 2990   | 735,000 2880  | 702,000 2690  | 665,000 2480  | 629,000 2300  | 587,000 2120  | 543,000 1930  |
| 353    | 10000            | 17 05            | 804,000 3570   | 788,000 3460  | 756,000 3230  | 721,000 3010  | 686,000 2830  | 650,000 2630  | 612,000 2430  |

Double Inlet

## Size "V" Supervane Fan—Design 1

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                     | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                     | H. P. |
|--------|------------------|------------------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|
|        |                  |                  | Static Pressure 1/4" Water .0722 ozs. per sq. inch  |       | Static Pressure 1/4" Water .145 ozs. per sq. inch   |       | Static Pressure 3/8" Water .217 ozs. per sq. inch   |       | Static Pressure 1/2" Water .289 ozs. per sq. inch   |       | Static Pressure 5/8" Water .361 ozs. per sq. inch |       | Static Pressure 3/4" Water .434 ozs. per sq. inch   |       | Static Pressure 7/8" Water .506 ozs. per sq. inch |       |
| 33     | 1000             | 0 171            | 52,400  | 1.95  |   |       |   |       |   |       |   |       |   |       |   |       |
| 39     | 1200             | 0 246            | 85,400  | 4.95  |   |       |   |       |   |       |   |       |   |       |   |       |
| 46     | 1400             | 0 334            | 111,000   | 9.3   | 71,100  | 5.2   |   |       |   |       |   |       |   |       |   |       |
| 53     | 1600             | 0 436            | 140,000   | 15.5  | 107,000   | 10.5  |   |       |   |       |   |       |   |       |   |       |
| 59     | 1800             | 0 552            | 161,000   | 23.5  | 137,000   | 18    | 104,000   | 13.0  |   |       |   |       |   |       |   |       |
| 66     | 2000             | 0 682            |   |       | 161,000   | 27    | 137,000   | 21.5  | 105,000   | 15.5  |   |       |   |       |   |       |
| 72     | 2200             | 0 825            |   |       | 190,000   | 39    | 168,000   | 33    | 140,000   | 26    | 110,000   | 19.5  |   |       |   |       |
| 79     | 2400             | 0 981            |   |       | 215,000   | 51    | 194,000   | 46    | 173,000   | 40    | 148,000   | 33    | 117,000   | 24.5  |   |       |
| 86     | 2600             | 1 15             |   |       | 239,000   | 72    | 221,000   | 64    | 202,000   | 56    | 180,000   | 48    | 157,000   | 41    | 128,000   | 32    |
| 92     | 2800             | 1 31             |   |       |   |       | 216,000   | 84    | 229,000   | 74    | 211,000   | 68    | 190,000   | 58    | 168,000   | 50    |
| 99     | 3000             | 1 54             |   |       |   |       | 270,000   | 105   | 251,000   | 96    | 239,000   | 88    | 221,000   | 80    | 201,000   | 72    |
| 105    | 3200             | 1 75             |   |       |   |       | 294,000   | 135   | 280,000   | 125   | 265,000   | 115   | 249,000   | 105   | 231,000   | 94    |
| 112    | 3400             | 1 97             |   |       |   |       |   |       | 304,000   | 155   | 291,000   | 145   | 276,000   | 135   | 261,000   | 125   |
| 119    | 3600             | 2 21             |   |       |   |       |   |       | 328,000   | 185   | 316,000   | 175   | 303,000   | 165   | 288,000   | 155   |
| 125    | 3800             | 2 46             |   |       |   |       |   |       | 351,000   | 225   | 340,000   | 215   | 328,000   | 200   | 315,000   | 190   |
| 132    | 4000             | 2 73             |   |       |   |       |   |       |   |       | 364,000   | 255   | 353,000   | 245   | 340,000   | 230   |
| 138    | 4200             | 3 01             |   |       |   |       |   |       |   |       | 388,000   | 305   | 377,000   | 290   | 366,000   | 275   |
| 145    | 4400             | 3 30             |   |       |   |       |   |       |   |       |   |       | 401,000   | 340   | 391,000   | 330   |
| 151    | 4600             | 3 61             |   |       |   |       |   |       |   |       |   |       | 425,000   | 400   | 415,000   | 385   |
| 158    | 4800             | 3 93             |   |       |   |       |   |       |   |       |   |       |   |       | 439,000   | 445   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 ozs. per sq. inch     |       | Static Pressure 1 1/4" Water .723 ozs. per sq. inch |       | Static Pressure 1 1/2" Water .878 ozs. per sq. inch |       | Static Pressure 1 3/4" Water 1.01 ozs. per sq. inch |       | Static Pressure 2" Water 1.16 ozs. per sq. inch   |       | Static Pressure 2 1/2" Water 1.45 ozs. per sq. inch |       | Static Pressure 3" Water 1.73 ozs. per sq. inch   |       |
| 92     | 2800             | 1 34             | 112,000   | 41    |   |       |   |       |   |       |   |       |   |       |   |       |
| 99     | 3000             | 1 54             | 181,000   | 62    | 117,000   | 39    |   |       |   |       |   |       |   |       |   |       |
| 105    | 3200             | 1 75             | 211,000   | 86    | 174,000   | 66    |   |       |   |       |   |       |   |       |   |       |
| 112    | 3400             | 1 97             | 245,000   | 115   | 210,000   | 94    | 168,000   | 72    |   |       |   |       |   |       |   |       |
| 119    | 3600             | 2 21             | 274,000   | 145   | 243,000   | 125   | 208,000   | 105   | 160,000   | 76    |   |       |   |       |   |       |
| 125    | 3800             | 2 46             | 302,000   | 180   | 274,000   | 160   | 242,000   | 135   | 207,000   | 115   | 148,000   | 78    |   |       |   |       |
| 132    | 4000             | 2 73             | 329,000   | 220   | 303,000   | 200   | 275,000   | 175   | 245,000   | 150   | 210,000   | 125   |   |       |   |       |
| 138    | 4200             | 3 01             | 354,000   | 265   | 331,000   | 240   | 305,000   | 215   | 277,000   | 190   | 247,000   | 170   |   |       |   |       |
| 145    | 4400             | 3 30             | 380,000   | 315   | 357,000   | 290   | 335,000   | 265   | 309,000   | 240   | 280,000   | 210   | 219,000   | 155   |   |       |
| 151    | 4600             | 3 61             | 405,000   | 370   | 384,000   | 340   | 362,000   | 315   | 339,000   | 290   | 314,000   | 260   | 260,000   | 210   | 234,000   | 200   |
| 158    | 4800             | 3 93             | 429,000   | 430   | 410,000   | 400   | 388,000   | 370   | 368,000   | 345   | 345,000   | 320   | 296,000   | 265   |   |       |
| 164    | 5000             | 4 26             | 454,000   | 500   | 435,000   | 465   | 415,000   | 435   | 396,000   | 405   | 374,000   | 380   | 329,000   | 325   | 277,000   | 260   |
| 173    | 5250             | 4 70             | 483,000   | 590   | 466,000   | 555   | 448,000   | 525   | 429,000   | 495   | 410,000   | 465   | 368,000   | 405   | 323,000   | 345   |
| 181    | 5500             | 5 16             |   |       | 496,000   | 655   | 479,000   | 620   | 462,000   | 590   | 445,000   | 560   | 405,000   | 495   | 363,000   | 430   |
| 189    | 5750             | 5 64             |   |       | 526,000   | 765   | 510,000   | 735   | 493,000   | 695   | 476,000   | 660   | 441,000   | 595   | 402,000   | 530   |
| 197    | 6000             | 6 14             |   |       | 555,000   | 890   | 540,000   | 850   | 525,000   | 815   | 510,000   | 775   | 477,000   | 705   | 440,000   | 640   |
| 206    | 6250             | 6 66             |   |       |   |       | 570,000   | 980   | 556,000   | 955   | 540,000   | 905   | 509,000   | 830   | 477,000   | 760   |
| 214    | 6500             | 7 20             |   |       |   |       | 600,000   | 1130  | 585,000   | 1080  | 571,000   | 1040  | 543,000   | 965   | 511,000   | 885   |
| 222    | 6750             | 7 76             |   |       |   |       |   |       | 616,000   | 1230  | 602,000   | 1190  | 574,000   | 1100  | 545,000   | 1030  |
| 230    | 7000             | 8 35             |   |       |   |       |   |       | 645,000   | 1400  | 632,000   | 1360  | 606,000   | 1270  | 578,000   | 1180  |
| 247    | 7500             | 9 59             |   |       |   |       |   |       |   |       | 692,000   | 1730  | 667,000   | 1630  | 642,000   | 1540  |
| 263    | 8000             | 10 91            |   |       |   |       |   |       |   |       |   |       | 729,000   | 2050  | 705,000   | 1960  |
| 280    | 8500             | 12 32            |   |       |   |       |   |       |   |       |   |       | 786,000   | 2530  | 766,000   | 2420  |
| 296    | 9000             | 13 81            |   |       |   |       |   |       |   |       |   |       |   |       | 826,000   | 2970  |
| 312    | 9500             | 15 40            |   |       |   |       |   |       |   |       |   |       |   |       | 884,000   | 3570  |
| 329    | 10000            | 17 05            |   |       |   |       |   |       |   |       |   |       |   |       |   |       |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 3 1/2" Water 2.02 ozs. per sq. inch |       | Static Pressure 4" Water 2.31 ozs. per sq. inch     |       | Static Pressure 5" Water 2.89 ozs. per sq. inch     |       | Static Pressure 6" Water 3.47 ozs. per sq. inch     |       | Static Pressure 7" Water 4.05 ozs. per sq. inch   |       | Static Pressure 8" Water 4.63 ozs. per sq. inch     |       | Static Pressure 9" Water 5.2 ozs. per sq. inch    |       |
| 173    | 5250             | 4 70             | 263,000   | 270   |   |       |   |       |   |       |   |       |   |       |   |       |
| 181    | 5500             | 5 16             | 318,000   | 370   | 262,000   | 290   |   |       |   |       |   |       |   |       |   |       |
| 189    | 5750             | 5 64             | 361,000   | 465   | 315,000   | 395   |   |       |   |       |   |       |   |       |   |       |
| 197    | 6000             | 6 14             | 401,000   | 570   | 360,000   | 500   | 230,000   | 305   |   |       |   |       |   |       |   |       |
| 206    | 6250             | 6 66             | 441,000   | 685   | 403,000   | 615   | 315,000   | 455   |   |       |   |       |   |       |   |       |
| 214    | 6500             | 7 20             | 479,000   | 815   | 443,000   | 740   | 366,000   | 590   |   |       |   |       |   |       |   |       |
| 222    | 6750             | 7 76             | 511,000   | 955   | 482,000   | 875   | 410,000   | 720   | 322,000   | 535   |   |       |   |       |   |       |
| 230    | 7000             | 8 35             | 549,000   | 1100  | 519,000   | 1030  | 453,000   | 865   | 377,000   | 695   |   |       |   |       |   |       |
| 247    | 7500             | 9 59             | 617,000   | 1450  | 590,000   | 1370  | 532,000   | 1190  | 468,000   | 1020  | 395,000   | 830   |   |       |   |       |
| 263    | 8000             | 10 91            | 682,000   | 1850  | 657,000   | 1760  | 600,000   | 1580  | 550,000   | 1390  | 490,000   | 1200  | 419,000   | 1000  |   |       |
| 280    | 8500             | 12 32            | 745,000   | 2310  | 722,000   | 2210  | 675,000   | 2010  | 625,000   | 1820  | 570,000   | 1620  | 513,000   | 1430  | 446,000   | 1213  |
| 296    | 9000             | 13 81            | 805,000   | 2850  | 785,000   | 2730  | 741,000   | 2510  | 697,000   | 2310  | 650,000   | 2120  | 596,000   | 1900  | 541,000   | 1700  |
| 312    | 9500             | 15 40            | 867,000   | 3440  | 846,000   | 3320  | 807,000   | 3090  | 765,000   | 2860  | 724,000   | 2650  | 676,000   | 2440  | 625,000   | 2220  |
| 329    | 10000            | 17 05            | 925,000   | 4100  | 907,000   | 3980  | 870,000   | 3720  | 831,000   | 3470  | 790,000   | 3250  | 747,000   | 3030  | 704,000   | 2800  |

# Double Inlet Size "W" Supervane Fan—Design 1 Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M. H.P. Static Pressure 1" Water .0722 ozs. per sq. inch | Volume C.F.M. H.P. Static Pressure 1 1/4" Water .145 ozs. per sq. inch | Volume C.F.M. H.P. Static Pressure 1 1/2" Water .217 ozs. per sq. inch | Volume C.F.M. H.P. Static Pressure 1 3/4" Water .289 ozs. per sq. inch | Volume C.F.M. H.P. Static Pressure 2" Water .361 ozs. per sq. inch | Volume C.F.M. H.P. Static Pressure 2 1/4" Water .434 ozs. per sq. inch | Volume C.F.M. H.P. Static Pressure 2 1/2" Water .506 ozs. per sq. inch |
|--------|------------------|------------------|---|--|--|--|--|--|--|
| 30     | 1000             | 0 171            | 63,800 2.4  |  |  |  |  |  |  |
| 36     | 1200             | 0 246            | 105,000 6.1   |  |  |  |  |  |  |
| 42     | 1400             | 0 334            | 139,000 11.5  | 86,500 6.3   |  |  |  |  |  |
| 48     | 1600             | 0 436            | 170,000 19  | 130,000 13   |  |  |  |  |  |
| 54     | 1800             | 0 552            | 200,000 29  | 167,000 22   | 126,000 16   |  |  |  |  |
| 60     | 2000             | 0 682            |   | 200,000 33   | 167,000 26   | 128,000 19   |  |  |  |
| 66     | 2200             | 0 825            |   | 232,000 48   | 204,000 40   | 170,000 32   | 133,000 24   |  |  |
| 72     | 2400             | 0 981            |   | 262,000 66   | 236,000 56   | 210,000 48   | 180,000 40   | 142,000 30   |  |
| 78     | 2600             | 1 15             |   | 291,000 86   | 269,000 76   | 246,000 68   | 219,000 58   | 191,000 50   | 156,000 30   |
| 84     | 2800             | 1 34             |   |  | 299,000 100  | 279,000 90   | 257,000 82   | 231,000 72   | 205,000 62   |
| 90     | 3000             | 1 54             |   |  | 328,000 130  | 310,000 120  | 291,000 110  | 269,000 98   | 244,000 86   |
| 96     | 3200             | 1 75             |   |  | 358,000 165  | 341,000 150  | 323,000 140  | 303,000 125  | 281,000 115  |
| 102    | 3400             | 1 97             |   |  |  | 370,000 190  | 354,000 175  | 336,000 160  | 317,000 150  |
| 107    | 3600             | 2 21             |   |  |  | 400,000 230  | 384,000 215  | 368,000 200  | 350,000 190  |
| 113    | 3800             | 2 46             |   |  |  | 427,000 275  | 414,000 260  | 399,000 245  | 384,000 230  |
| 119    | 4000             | 2 73             |   |  |  |  | 443,000 310  | 429,000 295  | 414,000 290  |
| 125    | 4200             | 3 01             |   |  |  |  | 472,000 370  | 459,000 355  | 445,000 335  |
| 131    | 4400             | 3 30             |   |  |  |  |  | 489,000 415  | 475,000 400  |
| 137    | 4600             | 3 61             |   |  |  |  |  | 516,000 485  | 505,000 470  |
| 143    | 4800             | 3 93             |   |  |  |  |  |  | 534,000 545  |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 ozs. per sq. inch                     | Static Pressure 1 1/4" Water .723 ozs. per sq. inch                    | Static Pressure 1 1/2" Water .878 ozs. per sq. inch                    | Static Pressure 1 3/4" Water 1.01 ozs. per sq. inch                    | Static Pressure 2" Water 1.16 ozs. per sq. inch                    | Static Pressure 2 1/4" Water 1.45 ozs. per sq. inch                    | Static Pressure 2 1/2" Water 1.73 ozs. per sq. inch                    |
| 84     | 2800             | 1 34             | 173,000 50  |  |  |  |  |  |  |
| 90     | 3000             | 1 54             | 220,000 76  | 142,000 47   |  |  |  |  |  |
| 96     | 3200             | 1 75             | 260,000 105   | 212,000 82   |  |  |  |  |  |
| 102    | 3400             | 1 97             | 299,000 140   | 255,000 115  | 201,000 86   |  |  |  |  |
| 107    | 3600             | 2 21             | 333,000 175   | 296,000 150  | 253,000 125  | 196,000 92   |  |  |  |
| 113    | 3800             | 2 46             | 368,000 220   | 333,000 195  | 295,000 165  | 252,000 135  | 180,000 90   |  |  |
| 119    | 4000             | 2 73             | 400,000 270   | 369,000 240  | 335,000 210  | 298,000 185  | 255,000 150  |  |  |
| 125    | 4200             | 3 01             | 431,000 320   | 403,000 290  | 371,000 265  | 338,000 235  | 301,000 205  |  |  |
| 131    | 4400             | 3 30             | 462,000 380   | 435,000 350  | 407,000 320  | 376,000 290  | 341,000 260  | 206,000 190  |  |
| 137    | 4600             | 3 61             | 494,000 450   | 467,000 415  | 440,000 350  | 414,000 355  | 382,000 320  | 317,000 255  |  |
| 143    | 4800             | 3 93             | 521,000 525   | 499,000 490  | 473,000 450  | 448,000 420  | 421,000 385  | 360,000 320  | 285,000 240  |
| 149    | 5000             | 4 26             | 551,000 605   | 530,000 565  | 506,000 530  | 482,000 495  | 455,000 460  | 400,000 395  | 337,000 320  |
| 151    | 5250             | 4 70             | 587,000 720   | 567,000 680  | 545,000 640  | 522,000 600  | 500,000 565  | 447,000 490  | 393,000 420  |
| 164    | 5500             | 5 16             |   | 605,000 800  | 583,000 755  | 563,000 720  | 541,000 680  | 494,000 605  | 442,000 525  |
| 172    | 5750             | 5 64             |   | 640,000 935  | 621,000 895  | 600,000 845  | 581,000 805  | 536,000 725  | 490,000 645  |
| 179    | 6000             | 6 14             |   | 676,000 1080   | 657,000 1040   | 640,000 990  | 620,000 945  | 581,000 880  | 530,000 775  |
| 187    | 6250             | 6 66             |   |  | 694,000 1190   | 678,000 1160   | 658,000 1100   | 620,000 1010   | 580,000 925  |
| 194    | 6500             | 7 20             |   |  | 730,000 1370   | 713,000 1320   | 695,000 1270   | 662,000 1170   | 622,000 1080   |
| 202    | 6750             | 7 76             |   |  |  | 750,000 1500   | 734,000 1450   | 699,000 1350   | 664,000 1250   |
| 209    | 7000             | 8 85             |   |  |  | 786,000 1710   | 770,000 1650   | 738,000 1540   | 705,000 1440   |
| 224    | 7500             | 9 59             |   |  |  |  | 843,000 2110   | 812,000 1990   | 783,000 1880   |
| 239    | 8000             | 10 91            |   |  |  |  |  | 887,000 2500   | 859,000 2380   |
| 254    | 8500             | 12 32            |   |  |  |  |  | 959,000 3080   | 934,000 2950   |
| 269    | 9000             | 13 81            |   |  |  |  |  |  | 1,010,000 3620   |
| 284    | 9500             | 15 40            |   |  |  |  |  |  | 1,080,000 4350   |
| 299    | 10000            | 17 05            |   |  |  |  |  |  |  |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 3 1/2" Water 2.02 ozs. per sq. inch                 | Static Pressure 4" Water 2.31 ozs. per sq. inch                        | Static Pressure 5" Water 2.89 ozs. per sq. inch                        | Static Pressure 6" Water 3.47 ozs. per sq. inch                        | Static Pressure 7" Water 4.05 ozs. per sq. inch                    | Static Pressure 8" Water 4.63 ozs. per sq. inch                        | Static Pressure 9" Water 5.2 ozs. per sq. inch                         |
| 151    | 5250             | 4 70             | 320,000 325   |  |  |  |  |  |  |
| 164    | 5500             | 5 16             | 387,000 450   | 319,000 355  |  |  |  |  |  |
| 172    | 5750             | 5 64             | 440,000 565   | 384,000 480  |  |  |  |  |  |
| 179    | 6000             | 6 14             | 489,000 690   | 439,000 610  | 280,000 370  |  |  |  |  |
| 187    | 6250             | 6 66             | 538,000 835   | 491,000 750  | 384,000 555  |  |  |  |  |
| 194    | 6500             | 7 20             | 583,000 990   | 540,000 900  | 445,000 715  |  |  |  |  |
| 202    | 6750             | 7 76             | 626,000 1160  | 587,000 1070   | 499,000 880  | 392,000 650  |  |  |  |
| 209    | 7000             | 8 85             | 668,000 1340  | 632,000 1250   | 551,000 1060   | 459,000 845  |  |  |  |
| 224    | 7500             | 9 59             | 751,000 1770  | 719,000 1660   | 648,000 1460   | 570,000 1240   | 480,000 1010   |  |  |
| 239    | 8000             | 10 91            | 830,000 2250  | 800,000 2140   | 739,000 1920   | 670,000 1690   | 592,000 1460   | 510,000 1220   |  |
| 254    | 8500             | 12 32            | 906,000 2810  | 880,000 2700   | 822,000 2450   | 760,000 2270   | 695,000 1980   | 624,000 1740   | 544,000 1470   |
| 269    | 9000             | 13 81            | 980,000 3470  | 955,000 3320   | 902,000 3040   | 849,000 2810   | 791,000 2580   | 727,000 2320   | 659,000 2060   |
| 284    | 9500             | 15 40            | 1,060,000 4190  | 1,030,000 4030   | 984,000 3760   | 932,000 3480   | 880,000 3230   | 823,000 2970   | 761,000 2700   |
| 299    | 10000            | 17 05            | 1,130,000 5000  | 1,100,000 4850   | 1,060,000 4530   | 1,010,000 4230   | 962,000 3960   | 910,000 3690   | 858,000 3410   |



# Double Inlet Size "X" Supervane Fan—Design 1 Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M. Static Pressure 1" Water .0722 ozs. per sq. inch | H.P. | Volume C.F.M. Static Pressure 1 1/4" Water .145 ozs. per sq. inch | H.P. | Volume C.F.M. Static Pressure 1 1/2" Water .217 ozs. per sq. inch | H.P. | Volume C.F.M. Static Pressure 1 3/4" Water .289 ozs. per sq. inch | H.P. | Volume C.F.M. Static Pressure 2" Water .361 ozs. per sq. inch | H.P. | Volume C.F.M. Static Pressure 2 1/4" Water .434 ozs. per sq. inch | H.P. | Volume C.F.M. Static Pressure 2 1/2" Water .506 ozs. per sq. inch | H.P. |
|--------|------------------|------------------|--|------|---|------|---|------|---|------|---|------|---|------|---|------|
| 27     | 1000             | 0 171            | 76,300   | 2.9  |   |      |   |      |   |      |   |      |   |      |   |      |
| 33     | 1200             | 0 216            | 126,000  | 7.2  |   |      |   |      |   |      |   |      |   |      |   |      |
| 38     | 1400             | 0 334            | 167,000  | 13.5 | 104,000   | 8    |   |      |   |      |   |      |   |      |   |      |
| 44     | 1600             | 0 436            | 203,000  | 22.5 | 155,000   | 16   |   |      |   |      |   |      |   |      |   |      |
| 49     | 1800             | 0 552            | 239,000  | 34   | 200,000   | 26   | 151,000   | 19   |   |      |   |      |   |      |   |      |
| 55     | 2000             | 0 682            |  |      | 239,000   | 40   | 200,000   | 32   | 153,000   | 23   |   |      |   |      |   |      |
| 60     | 2200             | 0 825            |  |      | 277,000   | 58   | 244,000   | 48   | 203,000   | 39   | 159,000   | 28   |   |      |   |      |
| 65     | 2400             | 0 981            |  |      | 313,000   | 78   | 243,000   | 68   | 251,000   | 58   | 215,000   | 48   | 170,000   | 36   |   |      |
| 71     | 2600             | 1 15             |  |      | 318,000   | 105  | 321,000   | 92   | 294,000   | 82   | 262,000   | 70   | 238,000   | 60   | 187,000   | 46   |
| 76     | 2800             | 1 34             |  |      |   |      | 358,000   | 120  | 333,000   | 110  | 307,000   | 98   | 276,000   | 86   | 245,000   | 74   |
| 82     | 3000             | 1 54             |  |      |   |      | 393,000   | 155  | 370,000   | 140  | 348,000   | 130  | 321,000   | 115  | 292,000   | 105  |
| 87     | 3200             | 1 75             |  |      |   |      | 429,000   | 200  | 408,000   | 180  | 385,000   | 165  | 363,000   | 150  | 336,000   | 140  |
| 93     | 3400             | 1 97             |  |      |   |      |   |      | 443,000   | 225  | 421,000   | 210  | 402,000   | 195  | 380,000   | 180  |
| 98     | 3600             | 2 21             |  |      |   |      |   |      | 478,000   | 275  | 460,000   | 255  | 441,000   | 240  | 419,000   | 225  |
| 101    | 3800             | 2 46             |  |      |   |      |   |      | 511,000   | 330  | 494,000   | 310  | 476,000   | 295  | 459,000   | 275  |
| 106    | 4000             | 2 73             |  |      |   |      |   |      |   |      | 530,000   | 375  | 514,000   | 355  | 496,000   | 335  |
| 115    | 4200             | 3 01             |  |      |   |      |   |      |   |      | 565,000   | 445  | 549,000   | 425  | 533,000   | 405  |
| 120    | 4400             | 3 30             |  |      |   |      |   |      |   |      |   |      | 584,000   | 500  | 569,000   | 475  |
| 125    | 4600             | 3 61             |  |      |   |      |   |      |   |      |   |      | 618,000   | 580  | 605,000   | 560  |
| 131    | 4800             | 3 93             |  |      |   |      |   |      |   |      |   |      |   |      | 639,000   | 650  |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 ozs. per sq. inch                | H.P. | Static Pressure 1 1/4" Water .723 ozs. per sq. inch               | H.P. | Static Pressure 1 1/2" Water .878 ozs. per sq. inch               | H.P. | Static Pressure 1 3/4" Water 1.01 ozs. per sq. inch               | H.P. | Static Pressure 2" Water 1.16 ozs. per sq. inch               | H.P. | Static Pressure 2 1/4" Water 1.45 ozs. per sq. inch               | H.P. | Static Pressure 2 1/2" Water 1.73 ozs. per sq. inch               | H.P. |
| 76     | 2800             | 1 34             | 207,000  | 60   |   |      |   |      |   |      |   |      |   |      |   |      |
| 82     | 3000             | 1 54             | 263,000  | 92   | 170,000   | 56   |   |      |   |      |   |      |   |      |   |      |
| 87     | 3200             | 1 75             | 311,000  | 125  | 253,000   | 98   |   |      |   |      |   |      |   |      |   |      |
| 93     | 3400             | 1 97             | 357,000  | 165  | 305,000   | 135  | 244,000   | 105  |   |      |   |      |   |      |   |      |
| 98     | 3600             | 2 21             | 398,000  | 210  | 353,000   | 180  | 302,000   | 150  | 234,000   | 110  |   |      |   |      |   |      |
| 104    | 3800             | 2 46             | 440,000  | 260  | 398,000   | 230  | 352,000   | 200  | 301,000   | 165  | 215,000   | 115  |   |      |   |      |
| 106    | 4000             | 2 73             | 478,000  | 320  | 441,000   | 285  | 400,000   | 255  | 356,000   | 220  | 305,000   | 180  |   |      |   |      |
| 115    | 4200             | 3 01             | 516,000  | 385  | 481,000   | 350  | 444,000   | 315  | 404,000   | 280  | 360,000   | 245  |   |      |   |      |
| 120    | 4400             | 3 30             | 553,000  | 455  | 520,000   | 420  | 487,000   | 385  | 450,000   | 345  | 407,000   | 310  | 318,000   | 225  |   |      |
| 125    | 4600             | 3 61             | 590,000  | 540  | 559,000   | 500  | 527,000   | 460  | 495,000   | 425  | 457,000   | 380  | 379,000   | 305  |   |      |
| 131    | 4800             | 3 93             | 624,000  | 625  | 596,000   | 585  | 565,000   | 540  | 536,000   | 505  | 503,000   | 460  | 431,000   | 385  | 341,000   | 290  |
| 136    | 5000             | 4 26             | 661,000  | 725  | 634,000   | 680  | 605,000   | 635  | 576,000   | 590  | 544,000   | 550  | 478,000   | 475  | 403,000   | 380  |
| 143    | 5250             | 4 70             | 703,000  | 860  | 679,000   | 810  | 653,000   | 765  | 624,000   | 715  | 598,000   | 675  | 535,000   | 585  | 470,000   | 500  |
| 150    | 5500             | 5 16             |  |      | 723,000   | 960  | 697,000   | 905  | 674,000   | 860  | 647,000   | 810  | 590,000   | 725  | 529,000   | 630  |
| 157    | 5750             | 5 64             |  |      | 765,000   | 1120 | 743,000   | 1070 | 718,000   | 1010 | 695,000   | 960  | 641,000   | 865  | 586,000   | 770  |
| 164    | 6000             | 6 14             |  |      | 808,000   | 1300 | 787,000   | 1240 | 764,000   | 1180 | 741,000   | 1130 | 695,000   | 1030 | 641,000   | 930  |
| 171    | 6250             | 6 66             |  |      |   |      | 820,000   | 1430 | 810,000   | 1390 | 786,000   | 1310 | 741,000   | 1210 | 695,000   | 1100 |
| 177    | 6500             | 7 20             |  |      |   |      | 874,000   | 1640 | 853,000   | 1570 | 831,000   | 1520 | 791,000   | 1400 | 744,000   | 1290 |
| 184    | 6750             | 7 76             |  |      |   |      |   |      | 896,000   | 1800 | 877,000   | 1740 | 835,000   | 1610 | 794,000   | 1500 |
| 191    | 7000             | 8 35             |  |      |   |      |   |      | 940,000   | 2040 | 920,000   | 1980 | 881,000   | 1840 | 843,000   | 1720 |
| 205    | 7500             | 9 59             |  |      |   |      |   |      |   |      | 1,010,000   | 2520 | 972,000   | 2370 | 835,000   | 2240 |
| 218    | 8000             | 10 91            |  |      |   |      |   |      |   |      |   |      | 1,000,000   | 2680 | 1,030,000   | 2840 |
| 232    | 8500             | 12 32            |  |      |   |      |   |      |   |      |   |      | 1,150,000   | 3680 | 1,120,000   | 3520 |
| 246    | 9000             | 13 81            |  |      |   |      |   |      |   |      |   |      |   |      | 1,200,000   | 4320 |
| 259    | 9500             | 15 40            |  |      |   |      |   |      |   |      |   |      |   |      | 1,290,000   | 5200 |
| 273    | 10000            | 17 05            |  |      |   |      |   |      |   |      |   |      |   |      |   |      |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 3 1/2" Water 2.02 ozs. per sq. inch            | H.P. | Static Pressure 4" Water 2.31 ozs. per sq. inch                   | H.P. | Static Pressure 5" Water 2.89 ozs. per sq. inch                   | H.P. | Static Pressure 6" Water 3.47 ozs. per sq. inch                   | H.P. | Static Pressure 7" Water 4.05 ozs. per sq. inch               | H.P. | Static Pressure 8" Water 4.63 ozs. per sq. inch                   | H.P. | Static Pressure 9" Water 5.2 ozs. per sq. inch                    | H.P. |
| 143    | 5250             | 4 70             | 383,000  | 390  |   |      |   |      |   |      |   |      |   |      |   |      |
| 150    | 5500             | 5 16             | 463,000  | 535  | 381,000   | 420  |   |      |   |      |   |      |   |      |   |      |
| 157    | 5750             | 5 64             | 525,000  | 675  | 459,000   | 570  |   |      |   |      |   |      |   |      |   |      |
| 164    | 6000             | 6 14             | 584,000  | 830  | 525,000   | 730  | 334,000   | 445  |   |      |   |      |   |      |   |      |
| 171    | 6250             | 6 66             | 643,000  | 1000 | 587,000   | 895  | 459,000   | 665  |   |      |   |      |   |      |   |      |
| 177    | 6500             | 7 20             | 697,000  | 1180 | 645,000   | 1080 | 532,000   | 855  |   |      |   |      |   |      |   |      |
| 184    | 6750             | 7 76             | 749,000  | 1390 | 702,000   | 1280 | 596,000   | 1050 | 469,000   | 780  |   |      |   |      |   |      |
| 191    | 7000             | 8 35             | 799,000  | 1600 | 755,000   | 1490 | 660,000   | 1260 | 549,000   | 1010 |   |      |   |      |   |      |
| 205    | 7500             | 9 59             | 898,000  | 2110 | 860,000   | 1990 | 774,000   | 1740 | 681,000   | 1190 | 575,000   | 1210 |   |      |   |      |
| 218    | 8000             | 10 91            | 992,000  | 2690 | 956,000   | 2530 | 884,000   | 2300 | 801,000   | 2030 | 711,000   | 1740 | 610,000   | 1460 |   |      |
| 232    | 8500             | 12 32            | 1,080,000  | 3360 | 1,050,000   | 3220 | 983,000   | 2930 | 909,000   | 2650 | 831,000   | 2360 | 746,000   | 2080 | 650,000   | 1760 |
| 246    | 9000             | 13 81            | 1,170,000  | 4140 | 1,140,000   | 3970 | 1,080,000   | 3650 | 1,020,000   | 3360 | 946,000   | 3080 | 869,000   | 2770 | 788,000   | 2470 |
| 259    | 9500             | 15 40            | 1,260,000  | 5010 | 1,230,000   | 4820 | 1,180,000   | 4500 | 1,110,000   | 4150 | 1,050,000   | 3860 | 985,000   | 3550 | 910,000   | 3230 |
| 273    | 10000            | 17 05            | 1,350,000  | 5980 | 1,320,000   | 5790 | 1,270,000   | 5410 | 1,210,000   | 5050 | 1,150,000   | 4740 | 1,090,000   | 4410 | 103,000   | 4080 |

# Double Inlet Size "Y" Supervane Fan—Design 1 Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.                                       | H.P.  | Volume C.F.M.                                       | H.P.  | Volume C.F.M.                                     | H.P.  | Volume C.F.M.                                       | H.P. | Volume C.F.M. | H.P. | Volume C.F.M. | H.P. | Volume C.F.M. | H.P. |
|--------|------------------|------------------|---|---|---|---|---|---|---|------|---------------|------|---------------|------|---------------|------|
|        |                  |                  | Static Pressure 1/2" Water .0722 ozs. per sq. inch  | Static Pressure 1/4" Water .145 ozs. per sq. inch   | Static Pressure 3/8" Water .217 ozs. per sq. inch   | Static Pressure 1/2" Water .289 ozs. per sq. inch   | Static Pressure 5/8" Water .361 ozs. per sq. inch | Static Pressure 3/4" Water .434 ozs. per sq. inch   | Static Pressure 7/8" Water .506 ozs. per sq. inch   |      |               |      |               |      |               |      |
| 25     | 1000             | 0 171            | 89,000  | 3.4   |   |   |   |   |   |      |               |      |               |      |               |      |
| 30     | 1200             | 0 246            | 148,000   | 8.5   |   |   |   |   |   |      |               |      |               |      |               |      |
| 35     | 1400             | 0 334            | 196,000   | 16  | 122,000   | 9   |   |   |   |      |               |      |               |      |               |      |
| 40     | 1600             | 0 436            | 240,000   | 26  | 153,000   | 19  |   |   |   |      |               |      |               |      |               |      |
| 45     | 1800             | 0 552            | 282,000   | 40  | 235,000   | 31  | 178,000   | 22  |   |      |               |      |               |      |               |      |
| 50     | 2000             | 0 682            |   |   | 282,000   | 47  | 235,000   | 37  | 180,000   | 27   |               |      |               |      |               |      |
| 55     | 2200             | 0 825            |   |   | 326,000   | 58  | 287,000   | 56  | 210,000   | 45   | 188,000       | 34   |               |      |               |      |
| 60     | 2400             | 0 981            |   |   | 368,000   | 92  | 333,000   | 80  | 236,000   | 68   | 253,000       | 56   | 200,000       | 42   |               |      |
| 65     | 2600             | 1 15             |   |   | 409,000   | 125   | 378,000   | 110   | 346,000   | 96   | 308,000       | 82   | 269,000       | 70   | 220,000       | 51   |
| 70     | 2800             | 1 34             |   |   |   |   | 421,000   | 145   | 393,000   | 130  | 362,000       | 115  | 325,000       | 100  | 280,000       | 86   |
| 75     | 3000             | 1 54             |   |   |   |   | 463,000   | 180   | 436,000   | 165  | 409,000       | 150  | 378,000       | 135  | 341,000       | 120  |
| 80     | 3200             | 1 75             |   |   |   |   | 505,000   | 235   | 480,000   | 210  | 455,000       | 195  | 427,000       | 180  | 396,000       | 165  |
| 85     | 3400             | 1 97             |   |   |   |   |   |   | 521,000   | 265  | 499,000       | 245  | 474,000       | 225  | 447,000       | 210  |
| 90     | 3600             | 2 21             |   |   |   |   |   |   | 563,000   | 320  | 541,000       | 300  | 519,000       | 285  | 494,000       | 265  |
| 95     | 3800             | 2 46             |   |   |   |   |   |   | 602,000   | 385  | 582,000       | 365  | 561,000       | 345  | 510,000       | 325  |
| 101    | 4000             | 2 73             |   |   |   |   |   |   |   |      | 624,000       | 440  | 605,000       | 420  | 584,000       | 395  |
| 106    | 4200             | 3 01             |   |   |   |   |   |   |   |      | 665,000       | 520  | 646,000       | 500  | 627,000       | 475  |
| 111    | 4400             | 3 30             |   |   |   |   |   |   |   |      |               |      | 688,000       | 585  | 670,000       | 560  |
| 116    | 4600             | 3 61             |   |   |   |   |   |   |   |      |               |      | 728,000       | 685  | 711,000       | 660  |
| 121    | 4800             | 3 93             |   |   |   |   |   |   |   |      |               |      |               |      | 752,000       | 765  |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 ozs. per sq. inch     | Static Pressure 1 1/4" Water .723 ozs. per sq. inch | Static Pressure 1 1/2" Water .878 ozs. per sq. inch | Static Pressure 1 3/4" Water 1.01 ozs. per sq. inch | Static Pressure 2" Water 1.16 ozs. per sq. inch   | Static Pressure 2 1/4" Water 1.45 ozs. per sq. inch | Static Pressure 2 1/2" Water 1.73 ozs. per sq. inch |      |               |      |               |      |               |      |
| 70     | 2800             | 1 34             | 244,000   | 72  |   |   |   |   |   |      |               |      |               |      |               |      |
| 75     | 3000             | 1 51             | 309,000   | 105   | 200,000   | 66  |   |   |   |      |               |      |               |      |               |      |
| 80     | 3200             | 1 75             | 366,000   | 150   | 298,000   | 115   |   |   |   |      |               |      |               |      |               |      |
| 85     | 3400             | 1 97             | 420,000   | 195   | 360,000   | 160   | 237,000   | 120   |   |      |               |      |               |      |               |      |
| 90     | 3600             | 2 21             | 469,000   | 245   | 416,000   | 215   | 356,000   | 175   | 275,000   | 130  |               |      |               |      |               |      |
| 95     | 3800             | 2 46             | 517,000   | 305   | 469,000   | 270   | 415,000   | 235   | 355,000   | 195  | 253,000       | 135  |               |      |               |      |
| 101    | 4000             | 2 73             | 564,000   | 375   | 520,000   | 340   | 471,000   | 300   | 420,000   | 260  | 360,000       | 215  |               |      |               |      |
| 106    | 4200             | 3 01             | 608,000   | 455   | 567,000   | 410   | 524,000   | 370   | 476,000   | 330  | 424,000       | 290  |               |      |               |      |
| 111    | 4400             | 3 30             | 651,000   | 540   | 612,000   | 495   | 574,000   | 450   | 530,000   | 410  | 479,000       | 365  | 375,000       | 265  |               |      |
| 116    | 4600             | 3 61             | 695,000   | 635   | 659,000   | 585   | 621,000   | 540   | 583,000   | 500  | 538,000       | 450  | 446,000       | 360  |               |      |
| 121    | 4800             | 3 93             | 735,000   | 740   | 703,000   | 690   | 666,000   | 635   | 631,000   | 595  | 592,000       | 545  | 507,000       | 455  | 402,000       | 340  |
| 126    | 5000             | 4 26             | 778,000   | 855   | 746,000   | 800   | 712,000   | 745   | 680,000   | 700  | 642,000       | 650  | 561,000       | 555  | 475,000       | 450  |
| 132    | 5250             | 4 70             | 829,000   | 1010  | 800,000   | 955   | 769,000   | 810   | 736,000   | 845  | 705,000       | 795  | 630,000       | 690  | 554,000       | 590  |
| 138    | 5500             | 5 16             |   |   | 851,000   | 1120  | 821,000   | 1070  | 794,000   | 1010 | 762,000       | 955  | 695,000       | 850  | 623,000       | 740  |
| 145    | 5750             | 5 64             |   |   | 901,000   | 1320  | 875,000   | 1260  | 845,000   | 1190 | 818,000       | 1130 | 755,000       | 1020 | 690,000       | 910  |
| 151    | 6000             | 6 14             |   |   | 951,000   | 1530  |   |   | 926,000   | 1460 | 901,000       | 1390 | 873,000       | 1210 | 756,000       | 1100 |
| 157    | 6250             | 6 66             |   |   |   |   |   |   | 976,000   | 1680 | 955,000       | 1640 | 926,000       | 1550 | 873,000       | 1300 |
| 163    | 6500             | 7 20             |   |   |   |   | 1,030,000   | 1940  |   |      | 1,010,000     | 1860 | 979,000       | 1790 | 931,000       | 1520 |
| 170    | 6750             | 7 76             |   |   |   |   |   |   | 1,060,000   | 2120 | 1,030,000     | 2040 | 985,000       | 1900 | 935,000       | 1700 |
| 176    | 7000             | 8 35             |   |   |   |   |   |   | 1,110,000   | 2400 | 1,090,000     | 2330 | 1,040,000     | 2170 | 994,000       | 2030 |
| 188    | 7500             | 9 59             |   |   |   |   |   |   |   |      | 1,190,000     | 2970 | 1,140,000     | 2800 | 1,100,000     | 2640 |
| 201    | 8000             | 10 91            |   |   |   |   |   |   |   |      |               |      | 1,250,000     | 3520 | 1,210,000     | 3350 |
| 214    | 8500             | 12 32            |   |   |   |   |   |   |   |      |               |      | 1,350,000     | 4340 | 1,310,000     | 4150 |
| 226    | 9000             | 13 81            |   |   |   |   |   |   |   |      |               |      |               |      | 1,420,000     | 5060 |
| 239    | 9500             | 15 40            |   |   |   |   |   |   |   |      |               |      |               |      | 1,520,000     | 6150 |
| 251    | 10000            | 17 05            |   |   |   |   |   |   |   |      |               |      |               |      |               |      |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 3 1/2" Water 2.02 ozs. per sq. inch | Static Pressure 4" Water 2.31 ozs. per sq. inch     | Static Pressure 5" Water 2.89 ozs. per sq. inch     | Static Pressure 6" Water 3.47 ozs. per sq. inch     | Static Pressure 7" Water 4.05 ozs. per sq. inch   | Static Pressure 8" Water 4.63 ozs. per sq. inch     | Static Pressure 9" Water 5.2 ozs. per sq. inch      |      |               |      |               |      |               |      |
| 132    | 5250             | 4 70             | 451,000   | 460   |   |   |   |   |   |      |               |      |               |      |               |      |
| 138    | 5500             | 5 16             | 545,000   | 630   | 450,000   | 495   |   |   |   |      |               |      |               |      |               |      |
| 145    | 5750             | 5 64             | 620,000   | 795   | 541,000   | 675   |   |   |   |      |               |      |               |      |               |      |
| 151    | 6000             | 6 14             | 688,000   | 975   | 619,000   | 830   | 394,000   | 525   |   |      |               |      |               |      |               |      |
| 157    | 6250             | 6 66             | 757,000   | 1180  | 692,000   | 1050  | 541,000   | 780   |   |      |               |      |               |      |               |      |
| 163    | 6500             | 7 20             | 821,000   | 1400  | 760,000   | 1270  | 627,000   | 1010  |   |      |               |      |               |      |               |      |
| 170    | 6750             | 7 76             | 882,000   | 1640  | 827,000   | 1500  | 703,000   | 1240  | 553,000   | 920  |               |      |               |      |               |      |
| 176    | 7000             | 8 35             | 941,000   | 1890  | 890,000   | 1760  | 777,000   | 1490  | 647,000   | 1190 |               |      |               |      |               |      |
| 188    | 7500             | 9 59             | 1,060,000   | 2490  | 1,010,000   | 2340  | 912,000   | 2050  | 802,000   | 1750 | 676,000       | 1420 |               |      |               |      |
| 201    | 8000             | 10 91            | 1,170,000   | 3170  | 1,130,000   | 3020  | 1,040,000   | 2710  | 944,000   | 2390 | 835,000       | 2050 | 719,000       | 1720 |               |      |
| 214    | 8500             | 12 32            | 1,280,000   | 3960  | 1,240,000   | 3800  | 1,160,000   | 3450  | 1,070,000   | 3120 | 979,000       | 2790 | 879,000       | 2450 | 796,000       | 2070 |
| 226    | 9000             | 13 81            | 1,380,000   | 4880  | 1,350,000   | 4670  | 1,270,000   | 4310  | 1,200,000   | 3960 | 1,110,000     | 3630 | 1,030,000     | 3260 | 920,000       | 2910 |
| 239    | 9500             | 15 40            | 1,490,000   | 5900  | 1,450,000   | 5680  | 1,390,000   | 5300  | 1,310,000   | 4900 | 1,240,000     | 4550 | 1,160,000     | 4190 | 1,070,000     | 3810 |
| 251    | 10000            | 17 05            | 1,590,000   | 7050  | 1,560,000   | 6830  | 1,490,000   | 6380  | 1,430,000   | 5950 | 1,360,000     | 5580 | 1,280,000     | 5200 | 1,210,000     | 4810 |

Double Inlet

## Size "A" Supervane Fan—Design 1

Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.<br>Static Pressure<br>1" Water<br>.0722 oza. per sq. inch | H. P.   | Volume C.F.M.<br>Static Pressure<br>1" Water<br>.145 oza. per sq. inch | H. P.   | Volume C.F.M.<br>Static Pressure<br>1" Water<br>.217 oza. per sq. inch | H. P.   | Volume C.F.M.<br>Static Pressure<br>1" Water<br>.289 oza. per sq. inch | H. P.  | Volume C.F.M.<br>Static Pressure<br>1" Water<br>.361 oza. per sq. inch | H. P.  | Volume C.F.M.<br>Static Pressure<br>1" Water<br>.434 oza. per sq. inch | H. P.   | Volume C.F.M.<br>Static Pressure<br>1" Water<br>.506 oza. per sq. inch | H. P.  |
|--------|------------------|------------------|---|---|--|---|--|---|--|--|--|--|--|---|--|--|
| 296    | 1010             | 0 176            | 946   | 0 032   |  |   |  |   |  |  |  |  |  |   |  |  |
| 352    | 1200             | 0 249            | 1,814   | 0 09  |  |   |  |   |  |  |  |  |  |   |  |  |
| 411    | 1400             | 0 338            | 2,310   | 0 16  |  |   |  |   |  |  |  |  |  |   |  |  |
| 469    | 1600             | 0 411            | 2,760   | 0 26  | 2,260  | 0 195   |  |   |  |  |  |  |  |   |  |  |
| 528    | 1800             | 0 559            | 3,220   | 0 38  | 2,860  | 0 32  | 2,020  | 0 22  |  |  |  |  |  |   |  |  |
| 586    | 2000             | 0 690            | 3,690   | 0 52  | 3,360  | 0 48  | 2,900  | 0 39  |  |  |  |  |  |   |  |  |
| 645    | 2200             | 0 835            | 4,010   | 0 71  | 3,820  | 0 67  | 3,500  | 0 59  | 2,940  | 0 47   |  |  |  |   |  |  |
| 701    | 2400             | 0 991            |   |   | 4,260  | 0 89  | 4,000  | 0 82  | 3,640  | 0 72   | 2,940  | 0 57   |  |   |  |  |
| 763    | 2600             | 1 17             |   |   | 4,720  | 1 15  | 4,480  | 1 10  | 4,200  | 0 99   | 3,800  | 0 87   | 3,160  | 0 72  |  |  |
| 821    | 2800             | 1 35             |   |   | 5,080  | 1 45  | 4,880  | 1 40  | 4,680  | 1 30   | 4,400  | 1 20   | 4,000  | 1 05  | 3,360  | 0 89   |
| 880    | 3000             | 1 55             |   |   | 5,500  | 1 8   | 5,340  | 1 75  | 5,160  | 1 65   | 4,920  | 1 55   | 4,640  | 1 45  | 4,240  | 1 3  |
| 939    | 3200             | 1 77             |   |   | 5,880  | 2 2   | 5,760  | 2 1   | 5,600  | 2 1  | 5,400  | 2 0  | 5,180  | 1 85  | 4,880  | 1 7  |
| 998    | 3400             | 2 00             |   |   |  |   | 6,160  | 2 6   | 6,020  | 2 5  | 5,860  | 2 4  | 5,660  | 2 3   | 5,460  | 2 2  |
| 1058   | 3600             | 2 24             |   |   |  |   | 6,580  | 3 1   | 6,440  | 3 0  | 6,300  | 2 9  | 6,140  | 2 9   | 5,960  | 2 7  |
| 1114   | 3800             | 2 49             |   |   |  |   | 6,960  | 3 6   | 6,860  | 3 6  | 6,720  | 3 5  | 6,580  | 3 4   | 6,420  | 3 3  |
| 1173   | 4000             | 2 76             |   |   |  |   |  | 7,260   | 4 2  | 7,140  | 4 1  | 7,020  | 4 1  | 6,840   | 4 0  |  |
| 1231   | 4200             | 3 04             |   |   |  |   |  |   | 7,680  | 4 9  | 7,580  | 4 8  | 7,460  | 4 8   | 7,340  | 4 7  |
| 1290   | 4400             | 3 34             |   |   |  |   |  |   | 8,080  | 5 7  | 7,980  | 5 6  | 7,880  | 5 5   | 7,760  | 5 4  |
| 1350   | 4600             | 3 65             |   |   |  |   |  |   |  |  | 8,380  | 6 4  | 8,300  | 6 3   | 8,180  | 6 3  |
| 1409   | 4800             | 3 98             |   |   |  |   |  |   |  |  | 8,780  | 7 3  | 8,700  | 7 2   | 8,620  | 7 2  |
| 1469   | 5000             | 4 31             |   |   |  |   |  |   |  |  | 9,180  | 8 3  | 9,120  | 8 3   | 9,020  | 8 2  |
| 1540   | 5250             | 4 76             |   |   |  |   |  |   |  |  |  |  | 9,600  | 9 6   | 9,520  | 9 6  |
| 1614   | 5500             | 5 22             |   |   |  |   |  |   |  |  |  |  | 10,100   | 11  | 10,000   | 11 0   |
| 1689   | 5750             | 5 71             |   |   |  |   |  |   |  |  |  |  |  |   | 10,500   | 12 5   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure<br>1" Water<br>.578 oza. per sq. inch                   | Static Pressure<br>1" Water<br>.723 oza. per sq. inch | Static Pressure<br>1" Water<br>.878 oza. per sq. inch                  | Static Pressure<br>1" Water<br>1.01 oza. per sq. inch | Static Pressure<br>1" Water<br>1.16 oza. per sq. inch                  | Static Pressure<br>1" Water<br>1.31 oza. per sq. inch | Static Pressure<br>1" Water<br>1.46 oza. per sq. inch                  | Static Pressure<br>1" Water<br>1.61 oza. per sq. inch  | Static Pressure<br>1" Water<br>1.76 oza. per sq. inch                  | Static Pressure<br>1" Water<br>1.91 oza. per sq. inch  | Static Pressure<br>1" Water<br>2.06 oza. per sq. inch                  | Static Pressure<br>1" Water<br>2.21 oza. per sq. inch | Static Pressure<br>1" Water<br>2.36 oza. per sq. inch                  | Static Pressure<br>1" Water<br>2.51 oza. per sq. inch  |
| 880    | 3000             | 1 55             | 3,640   | 1 10  |  |   |  |   |  |  |  |  |  |   |  |  |
| 939    | 3200             | 1 77             | 4,520   | 1 55  | 3,040  | 1 05  |  |   |  |  |  |  |  |   |  |  |
| 998    | 3400             | 2 00             | 5,160   | 2 1   | 4,300  | 1 65  |  |   |  |  |  |  |  |   |  |  |
| 1058   | 3600             | 2 24             | 5,740   | 2 6   | 5,100  | 2 2   | 4,040  | 1 75  |  |  |  |  |  |   |  |  |
| 1114   | 3800             | 2 49             | 6,240   | 3 2   | 5,760  | 2 9   | 5,060  | 2 4   |  |  |  |  |  |   |  |  |
| 1173   | 4000             | 2 76             | 6,720   | 3 8   | 6,340  | 3 5   | 5,840  | 3 1   | 3,720  | 1 8  |  |  |  |   |  |  |
| 1231   | 4200             | 3 04             | 7,180   | 4 5   | 6,860  | 4 3   | 6,480  | 3 9   | 4,960  | 2 7  |  |  |  |   |  |  |
| 1290   | 4400             | 3 34             | 7,660   | 5 3   | 7,360  | 5 1   | 7,000  | 4 7   | 5,820  | 3 4  | 2,900  | 2 9  |  |   |  |  |
| 1350   | 4600             | 3 65             | 8,100   | 6 2   | 7,820  | 5 9   | 7,520  | 5 6   | 6,520  | 4 3  | 5,880  | 3 8  |  |   |  |  |
| 1409   | 4800             | 3 98             | 8,520   | 7 1   | 8,260  | 6 8   | 7,980  | 6 5   | 7,160  | 5 2  | 6,640  | 4 7  | 4,900  | 3 5   |  |  |
| 1469   | 5000             | 4 31             | 8,940   | 8 1   | 8,720  | 7 9   | 8,480  | 7 6   | 7,680  | 6 2  | 7,280  | 5 7  | 6,020  | 4 6   |  |  |
| 1540   | 5250             | 4 76             | 9,440   | 9 4   | 9,200  | 9 4   | 9,040  | 8 9   | 8,200  | 7 2  | 7,860  | 6 8  | 6,900  | 5 8   | 5,080  | 4 3  |
| 1614   | 5500             | 5 22             | 9,960   | 11 0  | 9,780  | 11 0  | 9,600  | 11  | 8,820  | 8 6  | 8,520  | 8 3  | 7,780  | 7 3   | 6,560  | 6 1  |
| 1689   | 5750             | 5 71             | 10,500  | 12 5  | 10,300   | 12 5  | 10,200   | 12  | 9,380  | 10 0   | 9,140  | 9 8  | 8,480  | 8 9   | 7,640  | 7 7  |
| 1761   | 6000             | 6 21             | 11,000  | 14  | 10,800   | 14  | 10,700   | 14  | 9,940  | 12 0   | 9,720  | 11 5   | 9,220  | 10 5  | 8,500  | 9 5  |
| 1834   | 6250             | 6 71             | 11,500  | 16  | 11,300   | 16  | 11,100   | 16  | 10,500   | 14 0   | 10,300   | 13 5   | 9,840  | 12 5  | 9,280  | 11 5   |
| 1908   | 6500             | 7 29             |   |   | 11,900   | 18  | 11,700   | 18  | 11,000   | 15 5   | 10,900   | 15   | 10,500   | 14 5  | 9,960  | 13 5   |
| 1980   | 6750             | 7 86             |   |   | 12,300   | 20  | 12,200   | 20  | 11,600   | 18   | 11,400   | 17   | 11,000   | 16 5  | 10,600   | 16   |
| 2055   | 7000             | 8 45             |   |   | 12,800   | 23  | 12,700   | 23  | 12,100   | 20   | 11,900   | 20   | 11,600   | 19  | 11,200   | 18   |
| 2200   | 7500             | 9 71             |   |   |  |   | 13,700   | 28  | 12,600   | 22   | 12,480   | 22   | 12,200   | 21  | 11,800   | 21   |
| 2345   | 8000             | 11 01            |   |   |  |   |  |   | 13,600   | 28   | 13,500   | 27   | 13,300   | 27  | 13,000   | 26   |
| 2495   | 8500             | 12 48            |   |   |  |   |  |   | 14,600   | 34   | 14,500   | 34   | 14,300   | 33  | 14,100   | 33   |
| 2640   | 9000             | 14 00            |   |   |  |   |  |   | 15,600   | 41   | 15,500   | 41   | 15,300   | 40  | 15,100   | 40   |
| 2788   | 9500             | 15 58            |   |   |  |   |  |   |  |  | 16,520   | 48   | 16,400   | 48  | 16,180   | 47   |
| 2940   | 10000            | 17 27            |   |   |  |   |  |   |  |  |  |  | 17,400   | 56  | 17,200   | 56   |
|        |                  |                  |   |   |  |   |  |   |  |  |  |  | 18,400   | 66  | 18,200   | 66   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure<br>3" Water<br>2.02 oza. per sq. inch                   | Static Pressure<br>4" Water<br>2.31 oza. per sq. inch | Static Pressure<br>5" Water<br>2.89 oza. per sq. inch                  | Static Pressure<br>6" Water<br>3.47 oza. per sq. inch | Static Pressure<br>7" Water<br>4.05 oza. per sq. inch                  | Static Pressure<br>8" Water<br>4.63 oza. per sq. inch | Static Pressure<br>9" Water<br>5.2 oza. per sq. inch                   | Static Pressure<br>10" Water<br>5.78 oza. per sq. inch | Static Pressure<br>11" Water<br>6.36 oza. per sq. inch                 | Static Pressure<br>12" Water<br>6.94 oza. per sq. inch | Static Pressure<br>13" Water<br>7.52 oza. per sq. inch                 | Static Pressure<br>14" Water<br>8.1 oza. per sq. inch | Static Pressure<br>15" Water<br>8.68 oza. per sq. inch                 | Static Pressure<br>16" Water<br>9.26 oza. per sq. inch |
| 1614   | 5300             | 5 22             | 6,180   | 6 3   |  |   |  |   |  |  |  |  |  |   |  |  |
| 1689   | 5750             | 5 71             | 7,480   | 8 3   | 5,720  | 6 4   |  |   |  |  |  |  |  |   |  |  |
| 1761   | 6000             | 6 21             | 8,460   | 10 0  | 7,280  | 8 8   |  |   |  |  |  |  |  |   |  |  |
| 1834   | 6250             | 6 74             | 9,320   | 12 5  | 8,420  | 11  |  |   |  |  |  |  |  |   |  |  |
| 1908   | 6500             | 7 29             | 10,100  | 15 0  | 9,360  | 13  | 6,880  | 9 8   |  |  |  |  |  |   |  |  |
| 1980   | 6750             | 7 86             | 10,800  | 17 0  | 10,200   | 16  | 8,320  | 13 0  |  |  |  |  |  |   |  |  |
| 2055   | 7000             | 8 45             | 11,400  | 19 5  | 10,900   | 18  | 9,460  | 15 5  | 6,560  | 11 0   |  |  |  |   |  |  |
| 2200   | 7500             | 9 71             | 12,000  | 25  | 12,200   | 21  | 11,200   | 22  | 9,620  | 17 5   |  |  |  |   |  |  |
| 2345   | 8000             | 11 04            | 13,800  | 32  | 13,400   | 31  | 12,700   | 28  | 11,600   | 25   |  |  |  |   |  |  |
| 2495   | 8500             | 12 48            | 14,900  | 39  | 14,600   | 38  | 13,900   | 36  | 13,100   | 33   | 9,920  | 21   |  |   |  |  |
| 2640   | 9000             | 14 00            | 15,900  | 47  | 15,700   | 46  | 15,200   | 44  | 14,500   | 41   | 12,000   | 29   | 10,460   | 25  |  |  |
| 2788   | 9500             | 15 58            | 17,000  | 56  | 16,800   | 54  | 16,300   | 54  | 15,700   | 50   | 13,700   | 38   | 12,500   | 34  | 10,900   | 30   |
| 2940   | 10000            | 17 27            | 18,000  | 66  | 17,900   | 64  | 17,400   | 64  | 16,900   | 60   | 15,100   | 47   | 14,200   | 44  | 13,100   | 40   |
|        |                  |                  |   |   |  |   |  |   |  |  |  |  | 16,100   | 58  | 15,700   | 54   |

Double Inlet

## Size "B" Supervane Fan—Design 1 Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.                                      | H. P.  | Volume C.F.M.                                      | H. P.  | Volume C.F.M.                                      | H. P.  | Volume C.F.M.                                      | H. P.  | Volume C.F.M.                                      | H. P.  | Volume C.F.M.                                      | H. P.  | Volume C.F.M.                                      | H. P.  |
|--------|------------------|------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
|        |                  |                  | Static Pressure 1/2" Water .0722 ozs. per sq. inch | Static Pressure 1/2" Water .0722 ozs. per sq. inch | Static Pressure 1/2" Water .0722 ozs. per sq. inch | Static Pressure 1/2" Water .0722 ozs. per sq. inch | Static Pressure 1/2" Water .0722 ozs. per sq. inch | Static Pressure 1/2" Water .0722 ozs. per sq. inch | Static Pressure 1/2" Water .0722 ozs. per sq. inch | Static Pressure 1/2" Water .0722 ozs. per sq. inch | Static Pressure 1/2" Water .0722 ozs. per sq. inch | Static Pressure 1/2" Water .0722 ozs. per sq. inch | Static Pressure 1/2" Water .0722 ozs. per sq. inch | Static Pressure 1/2" Water .0722 ozs. per sq. inch | Static Pressure 1/2" Water .0722 ozs. per sq. inch | Static Pressure 1/2" Water .0722 ozs. per sq. inch |
| 241    | 1010             | 0 176            | 1,436  | 0 050  |  |  |  |  |  |  |  |  |  |  |  |  |
| 287    | 1200             | 0 249            | 2,760  | 0 135  |  |  |  |  |  |  |  |  |  |  |  |  |
| 335    | 1400             | 0 338            | 3,510  | 0 25   |  |  |  |  |  |  |  |  |  |  |  |  |
| 382    | 1600             | 0 441            | 4,180  | 0 39   | 3,420  | 0 29   |  |  |  |  |  |  |  |  |  |  |
| 430    | 1800             | 0 559            | 4,880  | 0 57   | 4,340  | 0 49   | 3,060  | 0 33   |  |  |  |  |  |  |  |  |
| 477    | 2000             | 0 690            | 5,460  | 0 79   | 5,100  | 0 72   | 4,380  | 0 50   |  |  |  |  |  |  |  |  |
| 525    | 2200             | 0 835            | 6,140  | 1 1  | 5,780  | 1 00   | 5,300  | 0 89   | 4,460  | 0 71   |  |  |  |  |  |  |
| 573    | 2400             | 0 994            |  |  | 6,460  | 1 35   | 6,060  | 1 25   | 5,520  | 1 1  | 4,460  | 0 86   |  |  |  |  |
| 621    | 2600             | 1 17             |  |  | 7,140  | 1 7  | 6,780  | 1 65   | 6,360  | 1 5  | 5,760  | 1 3  | 4,780  | 1 1  |  |  |
| 668    | 2800             | 1 35             |  |  | 7,700  | 2 2  | 7,380  | 2 1  | 7,100  | 2 0  | 6,680  | 1 8  | 6,080  | 1 6  | 5,100  | 1 35   |
| 717    | 3000             | 1 55             |  |  | 8,320  | 2 7  | 8,080  | 2 6  | 7,800  | 2 5  | 7,460  | 2 4  | 7,020  | 2 2  | 6,420  | 1 95   |
| 764    | 3200             | 1 77             |  |  | 8,920  | 3 3  | 8,720  | 3 2  | 8,480  | 3 1  | 8,200  | 3 0  | 7,840  | 2 8  | 7,400  | 2 6  |
| 811    | 3400             | 2 00             |  |  |  |  | 9,340  | 3 9  | 9,140  | 3 8  | 8,900  | 3 7  | 8,580  | 3 5  | 8,260  | 3 4  |
| 860    | 3600             | 2 24             |  |  |  |  | 9,980  | 4 7  | 9,760  | 4 6  | 9,560  | 4 5  | 9,300  | 4 3  | 9,020  | 4 1  |
| 909    | 3800             | 2 49             |  |  |  |  | 10,600   | 5 5  | 10,400   | 5 4  | 10,200   | 5 4  | 9,980  | 5 2  | 9,720  | 5 0  |
| 955    | 4000             | 2 76             |  |  |  |  |  |  | 11,000   | 6 4  | 10,800   | 6 3  | 10,600   | 6 2  | 10,400   | 6 0  |
| 1002   | 4200             | 3 04             |  |  |  |  |  |  | 11,600   | 7 4  | 11,500   | 7 3  | 11,300   | 7 2  | 11,100   | 7 0  |
| 1051   | 4400             | 3 34             |  |  |  |  |  |  | 12,200   | 8 6  | 12,100   | 8 5  | 11,900   | 8 4  | 11,800   | 8 2  |
| 1099   | 4600             | 3 65             |  |  |  |  |  |  |  |  | 12,700   | 9 8  | 12,600   | 9 6  | 12,400   | 9 5  |
| 1148   | 4800             | 3 98             |  |  |  |  |  |  |  |  | 13,300   | 11 0   | 13,200   | 11 0   | 13,000   | 11 0   |
| 1195   | 5000             | 4 31             |  |  |  |  |  |  |  |  | 13,900   | 12 5   | 13,800   | 12 5   | 13,700   | 12 5   |
| 1254   | 5250             | 4 76             |  |  |  |  |  |  |  |  |  |  | 14,600   | 11 5   | 14,400   | 14 5   |
| 1313   | 5500             | 5 22             |  |  |  |  |  |  |  |  |  |  | 15,300   | 17   | 15,200   | 16 5   |
| 1374   | 5750             | 5 71             |  |  |  |  |  |  |  |  |  |  |  |  | 16,000   | 19   |

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 ozs. per sq. inch | Static Pressure 1 1/2" Water .723 ozs. per sq. inch | Static Pressure 1 1/2" Water .723 ozs. per sq. inch | Static Pressure 1 1/2" Water .723 ozs. per sq. inch | Static Pressure 1 1/2" Water .723 ozs. per sq. inch | Static Pressure 1 1/2" Water .723 ozs. per sq. inch | Static Pressure 1 1/2" Water .723 ozs. per sq. inch | Static Pressure 1 1/2" Water .723 ozs. per sq. inch | Static Pressure 1 1/2" Water .723 ozs. per sq. inch | Static Pressure 1 1/2" Water .723 ozs. per sq. inch | Static Pressure 1 1/2" Water .723 ozs. per sq. inch | Static Pressure 1 1/2" Water .723 ozs. per sq. inch | Static Pressure 1 1/2" Water .723 ozs. per sq. inch | Static Pressure 1 1/2" Water .723 ozs. per sq. inch |
|--------|------------------|------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 717    | 3000             | 1 55             | 5,520   | 1 65  |   |   |   |   |   |   |   |   |   |   |   |   |
| 764    | 3200             | 1 77             | 6,810   | 2 3   | 4,620   | 1 6   |   |   |   |   |   |   |   |   |   |   |
| 811    | 3400             | 2 00             | 7,820   | 3 1   | 6,520   | 2 5   |   |   |   |   |   |   |   |   |   |   |
| 860    | 3600             | 2 24             | 8,700   | 3 9   | 7,740   | 3 4   | 6,120   | 2 7   |   |   |   |   |   |   |   |   |
| 909    | 3800             | 2 49             | 9,460   | 4 8   | 8,740   | 4 3   | 7,660   | 3 7   | 5,640   | 2 8   |   |   |   |   |   |   |
| 955    | 4000             | 2 76             | 10,200  | 5 8   | 9,600   | 5 3   | 8,860   | 4 8   | 7,520   | 4 0   |   |   |   |   |   |   |
| 1002   | 4200             | 3 04             | 10,900  | 6 9   | 10,400  | 6 4   | 9,820   | 5 9   | 8,820   | 5 2   | 7,440   | 4 4   |   |   |   |   |
| 1051   | 4400             | 3 34             | 11,600  | 8 1   | 11,100  | 7 7   | 10,600  | 7 1   | 9,880   | 6 5   | 8,920   | 5 8   |   |   |   |   |
| 1099   | 4600             | 3 65             | 12,300  | 9 4   | 11,800  | 9 0   | 11,300  | 8 6   | 10,800  | 7 9   | 10,080  | 7 2   | 7,420   | 5 3   |   |   |
| 1148   | 4800             | 3 98             | 12,900  | 11 0  | 12,500  | 10 5  | 12,100  | 10 0  | 11,700  | 9 4   | 11,000  | 8 7   | 9,140   | 7 0   |   |   |
| 1195   | 5000             | 4 31             | 13,500  | 12 5  | 13,200  | 12  | 12,800  | 11 5  | 12,400  | 11 0  | 11,900  | 10 5  | 10,500  | 8 7   | 7,700   | 6 5   |
| 1254   | 5250             | 4 76             | 14,300  | 14 5  | 14,000  | 14  | 13,700  | 13 5  | 13,400  | 13 0  | 12,900  | 12 5  | 11,800  | 11 0  | 9,960   | 9 2   |
| 1313   | 5500             | 5 22             | 15,100  | 16 5  | 14,800  | 16  | 14,600  | 16 0  | 14,200  | 15 5  | 13,900  | 15 0  | 12,900  | 13 5  | 11,600  | 12 0  |
| 1374   | 5750             | 5 71             | 15,800  | 19  | 15,600  | 19  | 15,400  | 18 5  | 15,100  | 18  | 14,800  | 17 5  | 14,000  | 16  | 12,900  | 14 5  |
| 1432   | 6000             | 6 21             | 16,600  | 22  | 16,400  | 21  | 16,200  | 21  | 15,900  | 21  | 15,600  | 20  | 14,900  | 19  | 14,100  | 17 5  |
| 1492   | 6250             | 6 74             | 17,600  | 25  | 17,200  | 24  | 17,000  | 24  | 16,700  | 24  | 16,500  | 23  | 15,900  | 22  | 15,100  | 21  |
| 1552   | 6500             | 7 29             |   |   | 17,900  | 28  | 17,800  | 27  | 17,500  | 27  | 17,300  | 26  | 16,700  | 25  | 16,100  | 24  |
| 1610   | 6750             | 7 86             |   |   | 18,700  | 31  | 18,500  | 31  | 18,300  | 30  | 18,100  | 30  | 17,600  | 29  | 17,000  | 28  |
| 1671   | 7000             | 8 45             |   |   | 19,400  | 34  | 19,300  | 34  | 19,100  | 34  | 18,900  | 34  | 18,100  | 33  | 17,900  | 31  |
| 1791   | 7500             | 9 71             |   |   |   |   | 20,800  | 42  | 20,600  | 42  | 20,600  | 42  | 20,200  | 41  | 19,600  | 40  |
| 1910   | 8000             | 11 04            |   |   |   |   |   |   | 22,200  | 52  | 22,000  | 52  | 21,800  | 50  | 21,400  | 49  |
| 2030   | 8500             | 12 48            |   |   |   |   |   |   | 23,800  | 62  | 23,600  | 62  | 23,200  | 62  | 23,000  | 60  |
| 2150   | 9000             | 14 00            |   |   |   |   |   |   |   |   | 25,000  | 74  | 24,800  | 74  | 24,600  | 72  |
| 2270   | 9500             | 15 58            |   |   |   |   |   |   |   |   |   |   | 26,400  | 86  | 26,000  | 86  |
| 2390   | 10000            | 17 27            |   |   |   |   |   |   |   |   |   |   | 27,800  | 100   | 27,600  | 100   |

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 3 1/2" Water 2.02 ozs. per sq. inch | Static Pressure 4" Water 2.31 ozs. per sq. inch | Static Pressure 5" Water 2.89 ozs. per sq. inch | Static Pressure 6" Water 3.47 ozs. per sq. inch | Static Pressure 7" Water 4.05 ozs. per sq. inch | Static Pressure 8" Water 4.63 ozs. per sq. inch | Static Pressure 9" Water 5.2 ozs. per sq. inch |      |
|--------|------------------|------------------|---|---|---|---|---|---|--|------|
| 1313   | 5500             | 5 22             | 9,380   | 9 5   |   |   |   |   |  |      |
| 1374   | 5750             | 5 71             | 11,300  | 12 5  | 8,680   | 9 7   |   |   |  |      |
| 1432   | 6000             | 6 21             | 12,800  | 15 5  | 11,000  | 13 5  |   |   |  |      |
| 1492   | 6250             | 6 74             | 14,100  | 19  | 12,800  | 16 5  |   |   |  |      |
| 1552   | 6500             | 7 29             | 15,300  | 22  | 14,200  | 20  | 10,400  | 15 0  |  |      |
| 1610   | 6750             | 7 86             | 16,300  | 26  | 15,400  | 24  | 12,600  | 19 5  |  |      |
| 1671   | 7000             | 8 45             | 17,300  | 30  | 16,600  | 28  | 14,300  | 23  | 9,960  | 16 5 |
| 1791   | 7500             | 9 71             | 19,100  | 38  | 18,600  | 37  | 17,000  | 33  | 14,600   | 27   |
| 1910   | 8000             | 11 04            | 20,800  | 48  | 20,400  | 46  | 19,200  | 43  | 17,600   | 38   |
| 2030   | 8500             | 12 48            | 22,600  | 58  | 22,200  | 58  | 21,200  | 54  | 19,900   | 50   |
| 2150   | 9000             | 14 00            | 24,200  | 70  | 23,800  | 70  | 23,000  | 66  | 22,000   | 62   |
| 2270   | 9500             | 15 58            | 25,800  | 84  | 25,400  | 84  | 24,800  | 80  | 23,800   | 76   |
| 2390   | 10000            | 17 27            | 27,400  | 100   | 27,200  | 98  | 26,400  | 96  | 25,800   | 92   |
|        |                  |                  |   |   |   |   |   |   | 20,800   | 58   |
|        |                  |                  |   |   |   |   |   |   | 19,000   | 52   |
|        |                  |                  |   |   |   |   |   |   | 21,600   | 66   |
|        |                  |                  |   |   |   |   |   |   | 23,800   | 82   |
|        |                  |                  |   |   |   |   |   |   | 16,600   | 45   |
|        |                  |                  |   |   |   |   |   |   | 19,900   | 60   |
|        |                  |                  |   |   |   |   |   |   | 22,600   | 76   |

**Double Inlet      Size "C" Supervane Fan—Design 1      Double Width**  
**When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances**

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M. H. P. Static Pressure 1/2" Water .0722 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1/2" Water .145 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 3/4" Water .217 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1" Water .289 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1 1/4" Water .361 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1 1/2" Water .434 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1 3/4" Water .506 ozs. per sq. inch |
|--------|------------------|------------------|--|---|---|---|---|---|---|
| 203    | 1010             | 0 176            | 2,020 0 17   |   |   |   |   |   |   |
| 241    | 1200             | 0 219            | 3,880 0 19   |   |   |   |   |   |   |
| 281    | 1400             | 0 338            | 5,000 0 35   |   |   |   |   |   |   |
| 322    | 1600             | 0 441            | 5,900 0 55   | 4,820 0 41  |   |   |   |   |   |
| 362    | 1800             | 0 559            | 6,880 0 81   | 6,140 0 69  | 4,320 0 47  |   |   |   |   |
| 402    | 2000             | 0 690            | 7,520 1 1  | 7,200 1 0   | 6,200 0 83  |   |   |   |   |
| 442    | 2200             | 0 835            | 8,060 1 5  | 8,160 1 4   | 7,480 1 25  | 6,300 1 00  |   |   |   |
| 482    | 2400             | 0 994            |  | 9,100 1 9   | 8,540 1 75  | 7,780 1 55  | 6,300 1 20  |   |   |
| 522    | 2600             | 1 17             |  | 10,100 2 4  | 9,560 2 3   | 8,980 2 1   | 8,140 1 85  | 6,760 1 55  |   |
| 563    | 2800             | 1 35             |  | 10,900 3 1  | 10,420 2 9  | 10,000 2 8  | 9,420 2 6   | 8,580 2 3   | 7,200 1 9   |
| 604    | 3000             | 1 55             |  | 11,800 3 8  | 11,400 3 7  | 11,000 3 6  | 10,500 3 3  | 9,900 3 1   | 9,060 2 7   |
| 644    | 3200             | 1 77             |  | 12,600 4 6  | 12,300 4 6  | 12,000 4 4  | 11,600 4 2  | 11,100 4 0  | 10,400 3 7  |
| 684    | 3400             | 2 00             |  |   | 13,100 5 5  | 12,900 5 4  | 12,500 5 2  | 12,100 5 0  | 11,700 4 7  |
| 724    | 3600             | 2 24             |  |   | 14,100 6 6  | 13,800 6 5  | 13,500 6 3  | 13,100 6 1  | 12,700 5 8  |
| 764    | 3800             | 2 49             |  |   | 14,900 7 8  | 14,700 7 7  | 14,400 7 6  | 14,100 7 3  | 13,700 7 1  |
| 804    | 4000             | 2 76             |  |   |   | 15,500 9 1  | 15,300 8 9  | 15,100 8 7  | 14,700 8 5  |
| 845    | 4200             | 3 01             |  |   |   | 16,400 10 5   | 16,200 10 5   | 16,000 10 0   | 15,700 10 0   |
| 885    | 4400             | 3 34             |  |   |   | 17,300 12   | 17,100 12   | 16,900 12 0   | 16,600 11 5   |
| 925    | 4600             | 3 65             |  |   |   |   | 17,900 14   | 17,700 13 5   | 17,500 13 5   |
| 965    | 4800             | 3 98             |  |   |   |   | 18,800 16   | 18,600 15 5   | 18,400 15 5   |
| 1005   | 5000             | 4 31             |  |   |   |   | 19,600 18   | 19,500 17 5   | 19,300 17 5   |
| 1055   | 5250             | 4 76             |  |   |   |   |   | 20,600 21   | 20,400 20   |
| 1106   | 5500             | 5 22             |  |   |   |   |   | 21,600 24   | 21,400 23   |
| 1155   | 5750             | 5 71             |  |   |   |   |   |   | 22,600 27   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 ozs. per sq. inch                        | Static Pressure 1 1/4" Water .723 ozs. per sq. inch                   | Static Pressure 1 1/2" Water .878 ozs. per sq. inch                   | Static Pressure 1 3/4" Water 1.01 ozs. per sq. inch                 | Static Pressure 2" Water 1.16 ozs. per sq. inch                         | Static Pressure 2 1/4" Water 1.45 ozs. per sq. inch                     | Static Pressure 2 3/4" Water 1.73 ozs. per sq. inch                     |
| 604    | 3000             | 1 55             | 7,780 2 3  |   |   |   |   |   |   |
| 644    | 3200             | 1 77             | 9,660 3 3  | 6,520 2 3   |   |   |   |   |   |
| 684    | 3400             | 2 00             | 11,100 4 4   | 9,220 3 6   |   |   |   |   |   |
| 724    | 3600             | 2 24             | 12,300 5 5   | 10,900 4 7  | 8,640 3 8   |   |   |   |   |
| 764    | 3800             | 2 49             | 13,400 6 8   | 12,300 6 1  | 10,800 5 2  | 7,940 3 9   |   |   |   |
| 804    | 4000             | 2 76             | 14,400 8 2   | 13,600 7 5  | 12,500 6 7  | 10,600 5 7  |   |   |   |
| 845    | 4200             | 3 01             | 15,400 9 7   | 14,700 9 1  | 13,900 8 4  | 12,400 7 3  | 10,500 6 2  |   |   |
| 885    | 4400             | 3 34             | 16,400 11 0  | 15,700 11   | 15,000 10   | 13,900 9 2  | 12,600 8 1  |   |   |
| 925    | 4600             | 3 65             | 17,300 13 0  | 16,700 13   | 16,100 12   | 15,300 11   | 14,200 10 0   | 10,500 7 5  |   |
| 965    | 4800             | 3 98             | 18,300 15 0  | 17,700 15   | 17,100 14   | 16,400 13   | 15,600 12 0   | 12,900 9 9  |   |
| 1005   | 5000             | 4 31             | 19,100 17 5  | 18,700 17   | 18,100 16   | 17,500 15   | 16,800 14 5   | 14,700 12 5   | 10,900 9 2  |
| 1055   | 5250             | 4 76             | 20,200 20  | 19,800 20   | 19,300 19   | 18,800 18   | 18,200 17 5   | 16,600 15 6   | 14,000 13 0   |
| 1106   | 5500             | 5 22             | 21,200 23  | 21,000 23   | 20,600 23   | 20,000 22   | 19,500 21   | 18,100 19   | 16,300 16 5   |
| 1155   | 5750             | 5 71             | 22,400 27  | 22,000 26   | 21,800 26   | 21,200 25   | 20,800 25   | 19,700 23   | 18,200 20   |
| 1205   | 6000             | 6 21             | 23,400 31  | 23,200 30   | 22,800 30   | 22,000 29   | 22,000 29   | 21,000 27   | 19,800 25   |
| 1258   | 6250             | 6 74             | 24,600 35  | 24,200 34   | 24,000 34   | 23,600 33   | 23,200 33   | 22,400 31   | 21,400 29   |
| 1307   | 6500             | 7 29             |  | 25,400 39   | 25,000 38   | 24,800 38   | 24,400 37   | 23,600 36   | 22,600 34   |
| 1358   | 6750             | 7 86             |  | 26,400 44   | 26,200 43   | 25,800 43   | 25,600 42   | 24,800 41   | 24,000 39   |
| 1408   | 7000             | 8 45             |  | 27,400 49   | 27,200 48   | 27,000 48   | 26,800 47   | 26,000 46   | 25,200 44   |
| 1509   | 7500             | 9 71             |  |   | 29,400 60   | 29,200 60   | 29,000 58   | 28,400 58   | 27,800 56   |
| 1609   | 8000             | 11 04            |  |   |   | 31,400 72   | 31,000 72   | 30,600 72   | 30,000 70   |
| 1710   | 8500             | 12 48            |  |   |   | 33,400 88   | 33,200 86   | 32,800 86   | 32,400 84   |
| 1810   | 9000             | 14 00            |  |   |   |   | 35,200 105  | 35,000 105  | 34,600 100  |
| 1910   | 9500             | 15 58            |  |   |   |   |   | 37,200 120  | 36,800 120  |
| 2010   | 10000            | 17 27            |  |   |   |   |   | 39,100 145  | 39,000 140  |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 3 1/4" Water 2.02 ozs. per sq. inch                    | Static Pressure 4" Water 2.31 ozs. per sq. inch                       | Static Pressure 5" Water 2.89 ozs. per sq. inch                       | Static Pressure 6" Water 3.47 ozs. per sq. inch                     | Static Pressure 7" Water 4.05 ozs. per sq. inch                         | Static Pressure 8" Water 4.63 ozs. per sq. inch                         | Static Pressure 9" Water 5.2 ozs. per sq. inch                          |
| 1106   | 5500             | 5 22             | 13,200 13 0  |   |   |   |   |   |   |
| 1155   | 5750             | 5 71             | 16,000 17 5  | 12,200 14   |   |   |   |   |   |
| 1205   | 6000             | 6 21             | 18,100 22  | 15,600 19   |   |   |   |   |   |
| 1258   | 6250             | 6 74             | 20,000 26  | 18,000 24   |   |   |   |   |   |
| 1307   | 6500             | 7 29             | 21,600 31  | 20,000 28   | 14,700 21   |   |   |   |   |
| 1358   | 6750             | 7 86             | 23,000 37  | 21,800 34   | 17,800 27   |   |   |   |   |
| 1408   | 7000             | 8 45             | 24,400 42  | 23,400 40   | 20,200 33   | 14,000 23   |   |   |   |
| 1509   | 7500             | 9 71             | 27,000 54  | 26,200 52   | 21,000 46   | 20,600 38   |   |   |   |
| 1609   | 8000             | 11 04            | 29,400 68  | 28,800 66   | 27,000 60   | 24,800 51   | 21,200 46   |   |   |
| 1710   | 8500             | 12 48            | 31,800 82  | 31,200 82   | 29,800 76   | 28,000 70   | 25,600 62   | 22,200 54   |   |
| 1810   | 9000             | 14 00            | 34,000 100   | 33,600 98   | 32,400 94   | 31,000 88   | 29,200 82   | 26,800 72   | 23,400 64   |
| 1910   | 9500             | 15 58            | 36,400 120   | 36,000 115  | 35,000 110  | 33,600 110  | 32,400 100  | 30,400 94   | 28,200 84   |
| 2010   | 10000            | 17 27            | 38,600 140   | 38,000 140  | 37,400 135  | 36,200 130  | 35,000 125  | 33,600 115  | 31,800 110  |

# Double Inlet Size "D" Supervane Fan—Design 1 Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M. H. P. Static Pressure 1/4" Water .0722 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1/2" Water .145 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 3/4" Water .217 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1" Water .289 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1 1/4" Water .361 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1 1/2" Water .434 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1 3/4" Water .506 ozs. per sq. inch |   |
|--------|------------------|------------------|--|---|---|---|---|---|---|---|
| 175    | 1010             | 0 176            | 2,720 0 094  |   |   |   |   |   |   |   |
| 208    | 1200             | 0 249            | 5,200 0 26   |   |   |   |   |   |   |   |
| 242    | 1400             | 0 338            | 6,700 0 46   |   |   |   |   |   |   |   |
| 278    | 1600             | 0 441            | 7,900 0 73   | 6,440 0 56  |   |   |   |   |   |   |
| 312    | 1800             | 0 559            | 9,220 1 1  | 8,200 0 93  | 5,780 0 63  |   |   |   |   |   |
| 347    | 2000             | 0 690            | 10,300 1 5   | 9,620 1 35  | 8,280 1 1   |   |   |   |   |   |
| 382    | 2200             | 0 835            | 11,600 2   | 10,900 1 9  | 10,000 1 7  | 8,400 1 35  |   |   |   |   |
| 417    | 2400             | 0 994            |  | 12,200 2 5  | 11,400 2 3  | 10,300 2 1  | 8,400 1 6   |   |   |   |
| 451    | 2600             | 1 17             |  | 13,500 3 3  | 12,800 3 1  | 12,000 2 8  | 10,900 2 5  | 9,040 2 1   |   |   |
| 486    | 2800             | 1 35             |  | 14,500 4 1  | 13,900 3 9  | 13,400 3 7  | 12,600 3 4  | 11,150 3 0  | 9,620 2 5   |   |
| 520    | 3000             | 1 55             |  | 15,700 5 2  | 15,200 5 0  | 14,700 4 8  | 14,100 4 5  | 13,200 4 1  | 12,100 3 7  |   |
| 555    | 3200             | 1 77             |  | 16,800 6 2  | 16,500 6 1  | 16,000 5 9  | 15,500 5 7  | 14,800 5 3  | 14,000 4 9  |   |
| 590    | 3400             | 2 00             |  |   | 17,600 7 4  | 17,200 7 2  | 16,800 7 0  | 16,200 6 7  | 15,600 6 3  |   |
| 625    | 3600             | 2 24             |  |   | 18,800 8 8  | 18,400 8 7  | 18,000 8 4  | 17,600 8 2  | 17,000 7 8  |   |
| 659    | 3800             | 2 49             |  |   | 20,000 10 5   | 19,600 10   | 19,200 10 0   | 18,800 9 8  | 18,400 9 5  |   |
| 695    | 4000             | 2 76             |  |   |   | 20,800 12   | 20,400 12 0   | 20,000 11 5   | 19,700 11 5   |   |
| 730    | 4200             | 3 04             |  |   |   | 22,000 14   | 21,600 14 0   | 21,400 14   | 21,000 13 5   |   |
| 764    | 4400             | 3 34             |  |   |   | 23,200 16   | 22,800 16 0   | 22,600 16   | 22,200 15 5   |   |
| 799    | 4600             | 3 65             |  |   |   |   | 24,000 18 5   | 23,800 18   | 23,400 18   |   |
| 833    | 4800             | 3 98             |  |   |   |   | 25,200 21   | 24,800 21   | 24,600 21   |   |
| 868    | 5000             | 4 31             |  |   |   |   | 26,200 24   | 26,000 24   | 25,800 23   |   |
| 911    | 5250             | 4 76             |  |   |   |   |   | 27,400 28   | 27,200 27   |   |
| 955    | 5500             | 5 22             |  |   |   |   |   | 29,000 32   | 28,600 31   |   |
| 998    | 5750             | 5 71             |  |   |   |   |   |   | 30,200 36   |   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .289 ozs. per sq. inch                        | Static Pressure 1 1/4" Water .361 ozs. per sq. inch                   | Static Pressure 1 1/2" Water .434 ozs. per sq. inch                   | Static Pressure 1 3/4" Water .506 ozs. per sq. inch                 | Static Pressure 1 1/2" Water 1.01 ozs. per sq. inch                     | Static Pressure 2" Water 1.16 ozs. per sq. inch                         | Static Pressure 2 1/2" Water 1.45 ozs. per sq. inch                     | Static Pressure 3" Water 1.73 ozs. per sq. inch |
| 520    | 3000             | 1 55             | 10,100 3 1   |   |   |   |   |   |   |   |
| 555    | 3200             | 1 77             | 12,900 4 1   | 8,700 3 0   |   |   |   |   |   |   |
| 590    | 3400             | 2 00             | 14,800 5 9   | 12,300 4 8  |   |   |   |   |   |   |
| 625    | 3600             | 2 24             | 16,400 7 1   | 14,600 6 3  | 11,160 5 0  |   |   |   |   |   |
| 659    | 3800             | 2 49             | 17,900 9 1   | 16,500 8 2  | 14,500 7 0  | 10,600 5 2  |   |   |   |   |
| 695    | 4000             | 2 76             | 19,200 11  | 18,100 10 0   | 16,700 9 0  | 14,200 7 6  |   |   |   |   |
| 730    | 4200             | 3 04             | 20,600 13  | 19,600 12 0   | 18,600 11 0   | 16,700 9 8  | 14,000 8 3  |   |   |   |
| 764    | 4400             | 3 34             | 22,000 15  | 21,000 14 5   | 20,000 13 5   | 18,700 12 0   | 16,800 11 0   |   |   |   |
| 799    | 4600             | 3 65             | 23,200 18  | 22,400 17 0   | 21,400 16 0   | 20,400 15 0   | 19,000 13 5   | 14,000 10 0   |   |   |
| 833    | 4800             | 3 98             | 24,400 20  | 23,600 19 5   | 22,800 18 5   | 22,000 17 5   | 20,800 16 5   | 17,300 13 5   |   |   |
| 868    | 5000             | 4 31             | 25,600 23  | 25,000 23   | 24,200 22   | 23,400 21   | 22,600 19 5   | 19,700 16 5   | 14,500 12 0   |   |
| 911    | 5250             | 4 76             | 27,000 27  | 26,600 27   | 25,800 26   | 25,200 25   | 24,400 24   | 22,000 21   | 18,800 17 5   |   |
| 955    | 5500             | 5 22             | 28,400 31  | 28,000 31   | 27,400 30   | 26,800 29   | 26,200 28   | 24,400 25   | 21,800 22   |   |
| 998    | 5750             | 5 71             | 30,000 36  | 29,600 35   | 29,000 35   | 28,400 34   | 27,800 33   | 26,400 31   | 24,400 27   |   |
| 1041   | 6000             | 6 21             | 31,400 41  | 31,000 40   | 30,600 40   | 30,200 39   | 29,600 38   | 28,200 36   | 26,600 33   |   |
| 1086   | 6250             | 6 74             | 32,800 46  | 32,400 46   | 32,000 45   | 31,600 45   | 31,200 44   | 30,000 42   | 28,600 39   |   |
| 1129   | 6500             | 7 29             |  | 33,800 52   | 33,600 52   | 33,200 50   | 32,800 50   | 31,600 48   | 30,400 45   |   |
| 1171   | 6750             | 7 86             |  | 35,400 58   | 35,000 58   | 34,600 58   | 34,200 56   | 33,200 54   | 32,200 52   |   |
| 1215   | 7000             | 8 45             |  | 36,800 66   | 36,400 64   | 36,200 64   | 35,800 64   | 34,800 62   | 33,800 60   |   |
| 1302   | 7500             | 9 71             |  |   | 39,200 80   | 39,000 80   | 38,800 78   | 38,000 78   | 37,200 68   |   |
| 1390   | 8000             | 11 04            |  |   |   | 42,000 98   | 41,600 96   | 41,000 96   | 40,400 94   |   |
| 1475   | 8500             | 12 48            |  |   |   | 44,800 115  | 44,600 115  | 44,000 115  | 43,200 110  |   |
| 1561   | 9000             | 14 00            |  |   |   |   | 47,200 140  | 46,800 135  | 46,400 135  |   |
| 1650   | 9500             | 15 58            |  |   |   |   |   | 49,800 165  | 49,200 160  |   |
| 1735   | 10000            | 17 27            |  |   |   |   |   | 52,600 190  | 52,200 190  |   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 3 1/2" Water 2.02 ozs. per sq. inch                    | Static Pressure 4" Water 2.31 ozs. per sq. inch                       | Static Pressure 5" Water 2.89 ozs. per sq. inch                       | Static Pressure 6" Water 3.47 ozs. per sq. inch                     | Static Pressure 7" Water 4.05 ozs. per sq. inch                         | Static Pressure 8" Water 4.63 ozs. per sq. inch                         | Static Pressure 9" Water 5.2 ozs. per sq. inch                          |   |
| 955    | 5500             | 5 22             | 17,700 18  |   |   |   |   |   |   |   |
| 998    | 5750             | 5 71             | 21,400 24  | 16,400 18 5   |   |   |   |   |   |   |
| 1041   | 6000             | 6 21             | 24,200 29  | 20,800 25   |   |   |   |   |   |   |
| 1086   | 6250             | 6 74             | 26,800 36  | 24,200 31   |   |   |   |   |   |   |
| 1129   | 6500             | 7 29             | 28,800 42  | 26,800 38   | 19,700 28   |   |   |   |   |   |
| 1171   | 6750             | 7 86             | 30,800 49  | 29,200 45   | 23,800 36   |   |   |   |   |   |
| 1251   | 7000             | 8 45             | 32,600 56  | 31,200 52   | 27,200 44   | 18,800 31   |   |   |   |   |
| 1302   | 7500             | 9 71             | 36,200 72  | 35,000 70   | 32,200 62   | 27,600 50   |   |   |   |   |
| 1390   | 8000             | 11 04            | 39,400 90  | 38,600 88   | 36,200 80   | 33,200 60   | 28,400 62   |   |   |   |
| 1475   | 8500             | 12 48            | 42,600 110   | 42,000 110  | 40,000 100  | 37,600 94   | 34,400 84   | 29,600 72   |   |   |
| 1561   | 9000             | 14 00            | 45,600 135   | 45,000 130  | 43,400 125  | 41,400 115  | 39,200 110  | 35,800 96   | 31,400 86   |   |
| 1650   | 9500             | 15 58            | 48,600 160   | 48,200 155  | 46,800 150  | 45,000 145  | 43,200 135  | 40,800 125  | 37,600 110  |   |
| 1735   | 10000            | 17 27            | 51,600 190   | 51,200 185  | 50,000 180  | 48,400 170  | 47,000 165  | 45,000 155  | 42,600 145  |   |

# Double Inlet Size "E" Supervane Fan—Design 1 Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M. Static Pressure 1/4" Water .072 oza. per sq. inch | H. P.   | Volume C.F.M. Static Pressure 1/4" Water .145 oza. per sq. inch | H. P.   | Volume C.F.M. Static Pressure 1/4" Water .217 oza. per sq. inch | H. P.   | Volume C.F.M. Static Pressure 1/2" Water .289 oza. per sq. inch | H. P. | Volume C.F.M. Static Pressure 1/2" Water .361 oza. per sq. inch | H. P. | Volume C.F.M. Static Pressure 3/4" Water .434 oza. per sq. inch | H. P. | Volume C.F.M. Static Pressure 7/8" Water .506 oza. per sq. inch | H. P. |
|--------|------------------|------------------|---|---|---|---|---|---|---|-------|---|-------|---|-------|---|-------|
| 155    | 1010             | 0 176            | 3,500   | 0 12  |   |   |   |   |   |       |   |       |   |       |   |       |
| 184    | 1200             | 0 249            | 6,720   | 0 33  |   |   |   |   |   |       |   |       |   |       |   |       |
| 214    | 1400             | 0 338            | 8,680   | 0 60  |   |   |   |   |   |       |   |       |   |       |   |       |
| 245    | 1600             | 0 441            | 10,200  | 0 95  | 8,340   | 0 72  |   |   |   |       |   |       |   |       |   |       |
| 276    | 1800             | 0 559            | 11,900  | 1 40  | 10,600  | 1 2   | 7,480   | 0 81  |   |       |   |       |   |       |   |       |
| 306    | 2000             | 0 690            | 13,400  | 1 95  | 12,500  | 1 8   | 10,700  | 1 45  |   |       |   |       |   |       |   |       |
| 337    | 2200             | 0 835            | 15,000  | 2 6   | 14,100  | 2 5   | 13,000  | 2 2   | 10,900  | 1 75  |   |       |   |       |   |       |
| 367    | 2400             | 0 994            |   |   | 15,800  | 3 3   | 14,800  | 3 0   | 13,500  | 2 7   | 10,900  | 2 1   |   |       |   |       |
| 398    | 2600             | 1 17             |   |   | 17,500  | 4 2   | 16,600  | 4 0   | 15,500  | 3 7   | 14,100  | 3 2   | 11,700  | 2 7   |   |       |
| 428    | 2800             | 1 35             |   |   | 18,800  | 5 3   | 18,100  | 5 1   | 17,400  | 4 8   | 16,300  | 4 4   | 14,800  | 3 9   | 12,500  | 3 3   |
| 459    | 3000             | 1 55             |   |   | 20,400  | 6 6   | 19,700  | 6 4   | 19,800  | 6 2   | 18,200  | 5 8   | 17,100  | 5 3   | 15,700  | 5 7   |
| 490    | 3200             | 1 77             |   |   | 21,800  | 8   | 21,400  | 7 9   | 20,800  | 7 6   | 20,000  | 7 3   | 19,200  | 6 9   | 18,100  | 6 4   |
| 520    | 3400             | 2 00             |   |   |   |   | 22,800  | 9 6   | 22,400  | 9 3   | 21,800  | 9 0   | 21,500  | 8 6   | 20,200  | 8 2   |
| 551    | 3600             | 2 24             |   |   |   |   | 24,400  | 11 5  | 23,800  | 11    | 23,400  | 11 0  | 22,800  | 10 5  | 22,000  | 10 0  |
| 581    | 3800             | 2 49             |   |   |   |   | 25,800  | 13 5  | 25,400  | 13    | 25,000  | 13 0  | 24,400  | 12 5  | 23,800  | 12 0  |
| 612    | 4000             | 2 76             |   |   |   |   |   |   | 27,000  | 16    | 26,600  | 15 5  | 26,000  | 15 0  | 25,600  | 14 5  |
| 643    | 4200             | 3 04             |   |   |   |   |   |   | 28,400  | 18    | 28,000  | 18    | 27,600  | 17 5  | 27,200  | 17 5  |
| 673    | 4400             | 3 34             |   |   |   |   |   |   | 30,000  | 21    | 29,600  | 21    | 29,200  | 20    | 28,800  | 20    |
| 704    | 4600             | 3 65             |   |   |   |   |   |   |   |       | 31,000  | 24    | 30,800  | 23    | 30,400  | 23    |
| 735    | 4800             | 3 98             |   |   |   |   |   |   |   |       | 32,600  | 27    | 32,200  | 27    | 32,000  | 27    |
| 765    | 5000             | 4 31             |   |   |   |   |   |   |   |       | 34,000  | 31    | 33,800  | 31    | 33,400  | 30    |
| 801    | 5250             | 4 76             |   |   |   |   |   |   |   |       |   |       | 35,600  | 36    | 35,200  | 35    |
| 842    | 5500             | 5 22             |   |   |   |   |   |   |   |       |   |       | 37,400  | 41    | 37,200  | 41    |
| 880    | 5750             | 5 71             |   |   |   |   |   |   |   |       |   |       |   |       | 39,000  | 47    |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 oza. per sq. inch                 | Static Pressure 1 1/4" Water .723 oza. per sq. inch | Static Pressure 1 1/2" Water .878 oza. per sq. inch             | Static Pressure 1 3/4" Water 1.01 oza. per sq. inch | Static Pressure 2" Water 1.16 oza. per sq. inch                 | Static Pressure 2 1/2" Water 1.45 oza. per sq. inch | Static Pressure 3" Water 1.73 oza. per sq. inch                 |       |   |       |   |       |   |       |
| 459    | 3000             | 1 55             | 13,500  | 4 1   |   |   |   |   |   |       |   |       |   |       |   |       |
| 490    | 3200             | 1 77             | 16,700  | 5 7   | 11,300  | 3 9   |   |   |   |       |   |       |   |       |   |       |
| 520    | 3400             | 2 00             | 19,100  | 7 6   | 16,000  | 6 2   |   |   |   |       |   |       |   |       |   |       |
| 551    | 3600             | 2 24             | 21,200  | 9 6   | 18,900  | 8 2   | 15,000  | 6 5   |   |       |   |       |   |       |   |       |
| 581    | 3800             | 2 49             | 23,200  | 12  | 21,400  | 10 5  | 18,700  | 9 0   | 13,760  | 6 7   |   |       |   |       |   |       |
| 612    | 4000             | 2 76             | 25,000  | 14  | 23,400  | 13  | 21,600  | 11 5  | 18,380  | 9 8   |   |       |   |       |   |       |
| 643    | 4200             | 3 04             | 26,600  | 17  | 25,400  | 16  | 24,000  | 14 5  | 21,600  | 12 5  |   |       |   |       |   |       |
| 673    | 4400             | 3 34             | 28,100  | 20  | 27,200  | 19  | 26,000  | 17 5  | 24,200  | 15 0  |   |       |   |       |   |       |
| 704    | 4600             | 3 65             | 30,000  | 23  | 29,000  | 22  | 27,800  | 21  | 26,400  | 19 5  |   |       |   |       |   |       |
| 735    | 4800             | 3 98             | 31,600  | 26  | 30,600  | 25  | 29,600  | 24  | 28,400  | 23    |   |       |   |       |   |       |
| 765    | 5000             | 4 31             | 33,200  | 30  | 32,400  | 29  | 31,400  | 28  | 30,400  | 27    |   |       |   |       |   |       |
| 801    | 5250             | 4 76             | 35,000  | 35  | 34,400  | 35  | 33,600  | 33  | 32,600  | 32    |   |       |   |       |   |       |
| 842    | 5500             | 5 22             | 36,800  | 40  | 36,200  | 40  | 35,600  | 39  | 34,800  | 38    |   |       |   |       |   |       |
| 880    | 5750             | 5 71             | 38,800  | 46  | 38,200  | 46  | 37,600  | 45  | 36,800  | 44    |   |       |   |       |   |       |
| 919    | 6000             | 6 21             | 40,600  | 52  | 40,200  | 52  | 39,600  | 52  | 39,000  | 50    |   |       |   |       |   |       |
| 956    | 6250             | 6 74             | 42,600  | 60  | 42,000  | 60  | 41,400  | 58  | 41,000  | 58    |   |       |   |       |   |       |
| 995    | 6500             | 7 29             |   |   | 44,000  | 68  | 43,400  | 66  | 42,800  | 66    |   |       |   |       |   |       |
| 1033   | 6750             | 7 86             |   |   | 45,800  | 76  | 45,200  | 74  | 44,800  | 74    |   |       |   |       |   |       |
| 1071   | 7000             | 8 45             |   |   | 47,600  | 84  | 47,200  | 81  | 46,800  | 82    |   |       |   |       |   |       |
| 1149   | 7500             | 9 71             |   |   |   |   | 50,800  | 105   | 50,400  | 105   |   |       |   |       |   |       |
| 1223   | 8000             | 11 04            |   |   |   |   |   |   | 54,200  | 125   |   |       |   |       |   |       |
| 1300   | 8500             | 12 48            |   |   |   |   |   |   | 58,000  | 150   |   |       |   |       |   |       |
| 1378   | 9000             | 14 00            |   |   |   |   |   |   |   |       |   |       |   |       |   |       |
| 1454   | 9500             | 15 58            |   |   |   |   |   |   |   |       |   |       |   |       |   |       |
| 1531   | 10000            | 17 27            |   |   |   |   |   |   |   |       |   |       |   |       |   |       |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 3 1/2" Water 2.02 oza. per sq. inch             | Static Pressure 4" Water 2.31 oza. per sq. inch     | Static Pressure 5" Water 2.89 oza. per sq. inch                 | Static Pressure 6" Water 3.47 oza. per sq. inch     | Static Pressure 7" Water 4.05 oza. per sq. inch                 | Static Pressure 8" Water 4.63 oza. per sq. inch     | Static Pressure 9" Water 5.2 oza. per sq. inch                  |       |   |       |   |       |   |       |
| 842    | 5500             | 5 22             | 22,800  | 23  |   |   |   |   |   |       |   |       |   |       |   |       |
| 880    | 5750             | 5 71             | 27,800  | 31  | 21,200  | 24  |   |   |   |       |   |       |   |       |   |       |
| 919    | 6000             | 6 21             | 30,200  | 38  | 27,000  | 33  |   |   |   |       |   |       |   |       |   |       |
| 956    | 6250             | 6 74             | 34,600  | 46  | 31,200  | 41  |   |   |   |       |   |       |   |       |   |       |
| 995    | 6500             | 7 29             | 37,400  | 54  | 34,800  | 49  | 25,400  | 36  |   |       |   |       |   |       |   |       |
| 1033   | 6750             | 7 86             | 39,800  | 64  | 37,600  | 58  | 30,800  | 47  |   |       |   |       |   |       |   |       |
| 1071   | 7000             | 8 45             | 42,400  | 72  | 40,400  | 68  | 35,000  | 58  | 24,400  | 40    |   |       |   |       |   |       |
| 1149   | 7500             | 9 71             | 46,800  | 94  | 45,400  | 90  | 41,600  | 80  | 35,800  | 66    |   |       |   |       |   |       |
| 1223   | 8000             | 11 04            | 51,000  | 115   | 49,800  | 110   | 46,800  | 105   | 42,800  | 92    |   |       |   |       |   |       |
| 1300   | 8500             | 12 48            | 55,200  | 145   | 54,200  | 140   | 51,600  | 130   | 48,000  | 120   |   |       |   |       |   |       |
| 1378   | 9000             | 14 00            | 59,000  | 170   | 58,400  | 170   | 56,000  | 165   | 53,600  | 150   |   |       |   |       |   |       |
| 1454   | 9500             | 15 58            | 63,000  | 210   | 62,400  | 200   | 60,400  | 195   | 58,200  | 190   |   |       |   |       |   |       |
| 1531   | 10000            | 17 27            | 66,800  | 240   | 66,400  | 240   | 64,800  | 230   | 62,800  | 220   |   |       |   |       |   |       |

Double Inlet

## Size "F" Supervane Fan—Design 1 Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                     | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                     | H. P. |
|--------|------------------|------------------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|
|        |                  |                  | Static Pressure 1/4" Water .0722 ozs. per sq. inch  |       | Static Pressure 1/4" Water .145 ozs. per sq. inch   |       | Static Pressure 1/4" Water .217 ozs. per sq. inch   |       | Static Pressure 1/4" Water .289 ozs. per sq. inch   |       | Static Pressure 1/4" Water .361 ozs. per sq. inch |       | Static Pressure 1/4" Water .433 ozs. per sq. inch   |       | Static Pressure 1/4" Water .506 ozs. per sq. inch |       |
| 138    | 1010             | 0.176            | 4,400   | 0.15  |   |       |   |       |   |       |   |       |   |       |   |       |
| 164    | 1200             | 0.249            | 8,420   | 0.42  |   |       |   |       |   |       |   |       |   |       |   |       |
| 191    | 1400             | 0.338            | 10,900  | 0.75  |   |       |   |       |   |       |   |       |   |       |   |       |
| 218    | 1600             | 0.441            | 12,800  | 1.20  | 10,500  | 0.9   |   |       |   |       |   |       |   |       |   |       |
| 246    | 1800             | 0.559            | 14,900  | 1.75  | 13,300  | 1.5   | 9,380   | 1.0   |   |       |   |       |   |       |   |       |
| 273    | 2000             | 0.690            | 16,700  | 2.4   | 15,000  | 2.2   | 13,400  | 1.8   |   |       |   |       |   |       |   |       |
| 300    | 2200             | 0.835            | 18,800  | 3.3   | 17,800  | 3.1   | 16,200  | 2.7   | 13,600  | 2.2   |   |       |   |       |   |       |
| 328    | 2400             | 0.994            |   |       | 19,700  | 4.1   | 18,500  | 3.8   | 16,900  | 3.3   | 13,600  | 2.6   |   |       |   |       |
| 355    | 2600             | 1.17             |   |       | 21,800  | 5.3   | 20,800  | 5.0   | 19,500  | 4.6   | 17,600  | 4.0   | 11,700  | 3.3   |   |       |
| 382    | 2800             | 1.35             |   |       | 23,600  | 6.7   | 22,600  | 6.4   | 21,800  | 6.0   | 20,400  | 5.6   | 18,600  | 4.9   | 15,600  | 4.1   |
| 410    | 3000             | 1.55             |   |       | 25,600  | 8.3   | 24,800  | 8.1   | 24,000  | 7.7   | 22,800  | 7.2   | 21,400  | 6.7   | 19,700  | 5.9   |
| 437    | 3200             | 1.77             |   |       | 27,200  | 10    | 26,800  | 9.9   | 26,000  | 9.6   | 25,000  | 9.2   | 23,000  | 8.6   | 22,600  | 8.0   |
| 464    | 3400             | 2.00             |   |       |   |       | 28,600  | 12    | 28,000  | 12.0  | 27,200  | 11.5  | 26,100  | 11    | 25,400  | 10.0  |
| 491    | 3600             | 2.24             |   |       |   |       | 30,600  | 14    | 29,800  | 14.0  | 29,200  | 13.5  | 28,600  | 13    | 27,600  | 12.5  |
| 519    | 3800             | 2.49             |   |       |   |       | 32,400  | 17    | 31,800  | 16.5  | 31,200  | 16.5  | 30,600  | 16    | 29,800  | 15.5  |
| 546    | 4000             | 2.76             |   |       |   |       |   |       | 33,800  | 19.5  | 33,200  | 19    | 32,600  | 19    | 32,000  | 18.5  |
| 573    | 4200             | 3.04             |   |       |   |       |   |       | 35,600  | 23    | 35,200  | 22    | 34,600  | 22    | 34,000  | 22    |
| 600    | 4400             | 3.31             |   |       |   |       |   |       | 37,600  | 26    | 37,000  | 26    | 36,600  | 26    | 36,000  | 25    |
| 628    | 4600             | 3.65             |   |       |   |       |   |       |   |       | 39,000  | 30    | 38,400  | 29    | 38,000  | 29    |
| 655    | 4800             | 3.98             |   |       |   |       |   |       |   |       | 40,800  | 34    | 40,400  | 34    | 40,000  | 33    |
| 682    | 5000             | 4.31             |   |       |   |       |   |       |   |       | 42,600  | 38    | 42,400  | 38    | 41,800  | 38    |
| 716    | 5250             | 4.76             |   |       |   |       |   |       |   |       | 45,800  | 45    | 45,800  | 45    | 44,200  | 44    |
| 750    | 5500             | 5.22             |   |       |   |       |   |       |   |       | 46,800  | 52    | 46,800  | 52    | 46,000  | 50    |
| 785    | 5750             | 5.71             |   |       |   |       |   |       |   |       |   |       | 48,800  | 58    | 48,800  | 58    |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 ozs. per sq. inch     |       | Static Pressure 1 1/4" Water .723 ozs. per sq. inch |       | Static Pressure 1 1/2" Water .878 ozs. per sq. inch |       | Static Pressure 1 3/4" Water 1.01 ozs. per sq. inch |       | Static Pressure 2" Water 1.16 ozs. per sq. inch   |       | Static Pressure 2 1/2" Water 1.45 ozs. per sq. inch |       | Static Pressure 3" Water 1.73 ozs. per sq. inch   |       |
| 410    | 3000             | 1.55             | 16,900  | 5.1   |   |       |   |       |   |       |   |       |   |       |   |       |
| 437    | 3200             | 1.77             | 21,000  | 7.2   | 14,100  | 4.9   |   |       |   |       |   |       |   |       |   |       |
| 464    | 3400             | 2.00             | 24,000  | 9.5   | 20,000  | 7.7   |   |       |   |       |   |       |   |       |   |       |
| 491    | 3600             | 2.24             | 26,600  | 12    | 23,600  | 10    | 18,700  | 8.0   |   |       |   |       |   |       |   |       |
| 519    | 3800             | 2.49             | 29,000  | 15    | 26,800  | 13    | 23,400  | 11.5  | 17,200  | 8.4   |   |       |   |       |   |       |
| 546    | 4000             | 2.76             | 31,200  | 18    | 29,400  | 16    | 27,200  | 14.5  | 23,000  | 12    |   |       |   |       |   |       |
| 573    | 4200             | 3.04             | 33,400  | 21    | 31,800  | 20    | 30,000  | 18    | 27,000  | 16    | 22,800  | 13.5  |   |       |   |       |
| 600    | 4400             | 3.34             | 35,600  | 25    | 34,200  | 24    | 32,600  | 22    | 30,200  | 20    | 27,200  | 17.5  |   |       |   |       |
| 628    | 4600             | 3.65             | 37,600  | 29    | 36,200  | 27    | 34,800  | 26    | 33,200  | 24    | 30,800  | 22    | 22,800  | 19    |   |       |
| 655    | 4800             | 3.98             | 39,600  | 33    | 38,400  | 32    | 37,000  | 30    | 35,600  | 29    | 33,800  | 27    | 28,000  | 22    |   |       |
| 682    | 5000             | 4.31             | 41,600  | 38    | 40,400  | 37    | 39,400  | 35    | 38,000  | 33    | 36,600  | 32    | 32,000  | 27    | 23,600  | 20    |
| 716    | 5250             | 4.76             | 43,800  | 44    | 43,000  | 44    | 42,000  | 41    | 40,800  | 40    | 39,000  | 38    | 36,000  | 34    | 30,400  | 28    |
| 750    | 5500             | 5.22             | 46,200  | 50    | 45,400  | 50    | 44,600  | 49    | 43,600  | 47    | 42,400  | 46    | 39,400  | 41    | 35,400  | 36    |
| 785    | 5750             | 5.71             | 48,600  | 58    | 47,800  | 58    | 47,200  | 56    | 46,200  | 54    | 45,200  | 54    | 42,800  | 50    | 39,400  | 44    |
| 819    | 6000             | 6.21             | 50,800  | 66    | 50,200  | 66    | 49,600  | 64    | 48,800  | 62    | 47,800  | 62    | 45,600  | 58    | 43,000  | 54    |
| 854    | 6250             | 6.74             | 53,200  | 76    | 52,800  | 74    | 52,000  | 74    | 51,200  | 72    | 50,400  | 70    | 48,000  | 68    | 46,200  | 62    |
| 887    | 6500             | 7.29             |   |       | 54,800  | 84    | 54,400  | 82    | 53,600  | 82    | 53,000  | 82    | 51,200  | 78    | 49,200  | 74    |
| 921    | 6750             | 7.86             |   |       | 57,400  | 94    | 56,800  | 94    | 56,000  | 92    | 55,400  | 92    | 54,000  | 88    | 52,000  | 84    |
| 955    | 7000             | 8.45             |   |       | 59,600  | 105   | 59,200  | 105   | 58,600  | 105   | 58,000  | 105   | 56,400  | 100   | 54,800  | 96    |
| 1021   | 7500             | 9.71             |   |       |   |       | 63,800  | 130   | 63,200  | 130   | 62,800  | 130   | 61,600  | 125   | 60,200  | 120   |
| 1091   | 8000             | 11.04            |   |       |   |       |   |       | 68,000  | 155   | 67,400  | 155   | 66,600  | 150   | 65,200  | 150   |
| 1160   | 8500             | 12.48            |   |       |   |       |   |       | 72,600  | 190   | 72,200  | 190   | 71,200  | 190   | 70,200  | 185   |
| 1229   | 9000             | 14.00            |   |       |   |       |   |       |   |       | 76,600  | 220   | 76,000  | 220   | 75,200  | 220   |
| 1298   | 9500             | 15.58            |   |       |   |       |   |       |   |       | 80,800  | 260   | 80,800  | 260   | 79,800  | 260   |
| 1364   | 10000            | 17.27            |   |       |   |       |   |       |   |       | 85,200  | 310   | 85,200  | 310   | 84,600  | 300   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 3 1/2" Water 2.62 ozs. per sq. inch |       | Static Pressure 4" Water 2.31 ozs. per sq. inch     |       | Static Pressure 5" Water 2.89 ozs. per sq. inch     |       | Static Pressure 6" Water 3.47 ozs. per sq. inch     |       | Static Pressure 7" Water 4.05 ozs. per sq. inch   |       | Static Pressure 8" Water 4.63 ozs. per sq. inch     |       | Static Pressure 9" Water 5.2 ozs. per sq. inch    |       |
| 750    | 5500             | 5.22             | 28,600  | 29    |   |       |   |       |   |       |   |       |   |       |   |       |
| 785    | 5750             | 5.71             | 34,600  | 38    | 26,600  | 30    |   |       |   |       |   |       |   |       |   |       |
| 819    | 6000             | 6.21             | 39,200  | 48    | 33,800  | 41    |   |       |   |       |   |       |   |       |   |       |
| 854    | 6250             | 6.74             | 43,200  | 58    | 39,200  | 50    |   |       |   |       |   |       |   |       |   |       |
| 887    | 6500             | 7.29             | 46,800  | 68    | 43,400  | 62    | 31,800  | 45    |   |       |   |       |   |       |   |       |
| 921    | 6750             | 7.86             | 50,000  | 80    | 47,200  | 74    | 38,600  | 60    |   |       |   |       |   |       |   |       |
| 955    | 7000             | 8.45             | 53,000  | 92    | 50,600  | 86    | 44,000  | 72    | 30,400  | 50    |   |       |   |       |   |       |
| 1021   | 7500             | 9.71             | 58,800  | 115   | 56,800  | 110   | 52,200  | 100   | 44,800  | 82    |   |       |   |       |   |       |
| 1091   | 8000             | 11.04            | 64,000  | 150   | 62,400  | 145   | 58,600  | 130   | 53,800  | 115   | 46,200  | 100   |   |       |   |       |
| 1160   | 8500             | 12.48            | 69,200  | 180   | 68,000  | 175   | 64,800  | 165   | 61,000  | 150   | 55,600  | 135   | 48,000  | 115   |   |       |
| 1229   | 9000             | 14.00            | 74,000  | 220   | 73,000  | 210   | 70,400  | 200   | 67,200  | 190   | 63,600  | 175   | 58,000  | 155   | 50,800  | 140   |
| 1298   | 9500             | 15.58            | 78,800  | 260   | 78,000  | 250   | 75,800  | 250   | 73,000  | 230   | 70,000  | 220   | 66,000  | 200   | 61,000  | 185   |
| 1364   | 10000            | 17.27            | 83,800  | 300   | 83,000  | 300   | 81,000  | 290   | 78,800  | 280   | 76,000  | 270   | 73,000  | 250   | 69,000  | 240   |



# Double Inlet Size "G" Supervane Fan—Design 1 Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. |
|--------|------------------|------------------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|
|        |                  |                  | Static Pressure 1" Water .0722 ozs. per sq. inch    |       | Static Pressure 1 1/4" Water .145 ozs. per sq. inch |       | Static Pressure 1 1/2" Water .217 ozs. per sq. inch |       | Static Pressure 1 3/4" Water .289 ozs. per sq. inch |       | Static Pressure 2" Water .361 ozs. per sq. inch     |       | Static Pressure 2 1/4" Water .434 ozs. per sq. inch |       | Static Pressure 2 1/2" Water .506 ozs. per sq. inch |       |
| 120    | 1010             | 0 176            | 5,720   | 0 20  |   |       |   |       |   |       |   |       |   |       |   |       |
| 143    | 1200             | 0 249            | 11,000  | 0 54  |   |       |   |       |   |       |   |       |   |       |   |       |
| 167    | 1400             | 0 338            | 14,100  | 0 98  |   |       |   |       |   |       |   |       |   |       |   |       |
| 191    | 1600             | 0 441            | 16,700  | 1 55  | 13,600  | 1 15  |   |       |   |       |   |       |   |       |   |       |
| 215    | 1800             | 0 559            | 19,500  | 2 3   | 17,300  | 2 0   | 12,200  | 1 35  |   |       |   |       |   |       |   |       |
| 238    | 2000             | 0 690            | 21,800  | 3 2   | 20,100  | 2 9   | 17,500  | 2 4   |   |       |   |       |   |       |   |       |
| 262    | 2200             | 0 835            | 24,100  | 4 3   | 23,000  | 4 0   | 21,200  | 3 6   | 17,800  | 2 8   |   |       |   |       |   |       |
| 286    | 2400             | 0 994            |   |       | 25,800  | 5 4   | 24,200  | 5 0   | 22,000  | 4 3   | 17,800  | 3 4   |   |       |   |       |
| 310    | 2600             | 1 17             |   |       | 28,400  | 6 9   | 27,000  | 6 6   | 25,400  | 6 0   | 23,000  | 5 2   | 19,100  | 4 3   |   |       |
| 334    | 2800             | 1 35             |   |       | 30,800  | 8 7   | 29,400  | 8 3   | 28,400  | 7 9   | 26,600  | 7 2   | 24,200  | 6 4   | 20,400  | 5 4   |
| 358    | 3000             | 1 55             |   |       | 33,200  | 11    | 32,200  | 10 5  | 31,200  | 10 0  | 29,800  | 9 4   | 28,000  | 8 7   | 25,600  | 7 7   |
| 382    | 3200             | 1 77             |   |       | 35,600  | 13    | 34,800  | 13 0  | 33,800  | 12 5  | 32,600  | 12    | 31,200  | 11    | 29,600  | 10 5  |
| 406    | 3400             | 2 00             |   |       |   |       | 37,200  | 15 5  | 36,400  | 15 0  | 35,400  | 14 5  | 34,200  | 14    | 33,000  | 13 5  |
| 430    | 3600             | 2 24             |   |       |   |       | 39,800  | 18 5  | 39,000  | 18 5  | 38,200  | 18    | 37,200  | 17    | 36,000  | 16 5  |
| 453    | 3800             | 2 49             |   |       |   |       | 42,000  | 22    | 41,400  | 22    | 40,600  | 21    | 39,800  | 21    | 38,800  | 20    |
| 477    | 4000             | 2 76             |   |       |   |       |   |       | 44,000  | 26    | 43,200  | 25    | 42,400  | 25    | 41,600  | 24    |
| 501    | 4200             | 3 04             |   |       |   |       |   |       | 46,400  | 30    | 45,800  | 29    | 45,000  | 29    | 44,400  | 28    |
| 525    | 4400             | 3 34             |   |       |   |       |   |       | 48,800  | 34    | 48,200  | 34    | 47,600  | 33    | 47,000  | 33    |
| 549    | 4600             | 3 65             |   |       |   |       |   |       |   |       | 50,800  | 39    | 50,000  | 38    | 49,600  | 38    |
| 572    | 4800             | 3 98             |   |       |   |       |   |       |   |       | 53,000  | 44    | 52,600  | 44    | 52,000  | 43    |
| 596    | 5000             | 4 31             |   |       |   |       |   |       |   |       | 55,600  | 50    | 55,200  | 50    | 54,600  | 49    |
| 626    | 5250             | 4 76             |   |       |   |       |   |       |   |       |   |       | 58,000  | 58    | 57,600  | 58    |
| 656    | 5500             | 5 22             |   |       |   |       |   |       |   |       |   |       | 61,000  | 68    | 60,600  | 66    |
| 686    | 5750             | 5 71             |   |       |   |       |   |       |   |       |   |       |   |       | 63,800  | 76    |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 3 1/2" Water .578 ozs. per sq. inch |       | Static Pressure 4" Water .723 ozs. per sq. inch     |       | Static Pressure 4 1/2" Water .878 ozs. per sq. inch |       | Static Pressure 5" Water 1.01 ozs. per sq. inch     |       | Static Pressure 5 1/2" Water 1.16 ozs. per sq. inch |       | Static Pressure 6" Water 1.45 ozs. per sq. inch     |       | Static Pressure 6 1/2" Water 1.73 ozs. per sq. inch |       |
| 358    | 3000             | 1 55             | 22,000  | 6 6   |   |       |   |       |   |       |   |       |   |       |   |       |
| 382    | 3200             | 1 77             | 27,200  | 9 3   | 18,400  | 6 4   |   |       |   |       |   |       |   |       |   |       |
| 406    | 3400             | 2 00             | 31,200  | 12 5  | 26,000  | 10 0  |   |       |   |       |   |       |   |       |   |       |
| 430    | 3600             | 2 24             | 34,600  | 15 5  | 30,800  | 13 5  | 24,400  | 10 5  |   |       |   |       |   |       |   |       |
| 453    | 3800             | 2 49             | 37,800  | 19    | 34,800  | 17    | 30,600  | 15    | 22,400  | 11    |   |       |   |       |   |       |
| 477    | 4000             | 2 76             | 40,600  | 23    | 38,200  | 21    | 35,400  | 19    | 30,000  | 16    |   |       |   |       |   |       |
| 501    | 4200             | 3 04             | 43,400  | 27    | 41,400  | 26    | 39,200  | 24    | 35,200  | 21    | 29,600  | 17 5  |   |       |   |       |
| 525    | 4400             | 3 34             | 46,200  | 32    | 44,400  | 31    | 42,400  | 28    | 39,400  | 26    | 35,600  | 23    |   |       |   |       |
| 549    | 4600             | 3 65             | 48,800  | 37    | 47,200  | 36    | 45,400  | 34    | 43,200  | 32    | 40,200  | 28    | 29,600  | 21    |   |       |
| 572    | 4800             | 3 98             | 51,600  | 43    | 50,000  | 41    | 48,200  | 39    | 46,400  | 37    | 44,000  | 35    | 40,200  | 28    |   |       |
| 596    | 5000             | 4 31             | 54,000  | 49    | 52,600  | 48    | 51,200  | 46    | 49,600  | 44    | 47,600  | 41    | 41,600  | 35    | 30,800  | 27    |
| 626    | 5250             | 4 76             | 57,200  | 58    | 56,000  | 56    | 54,600  | 54    | 53,200  | 52    | 51,000  | 50    | 47,000  | 44    | 39,600  | 37    |
| 656    | 5500             | 5 22             | 60,200  | 66    | 59,200  | 64    | 58,000  | 64    | 56,800  | 62    | 55,200  | 60    | 51,200  | 54    | 46,200  | 47    |
| 686    | 5750             | 5 71             | 63,200  | 76    | 62,400  | 74    | 61,400  | 74    | 60,000  | 72    | 58,800  | 70    | 55,800  | 64    | 51,400  | 58    |
| 716    | 6000             | 6 21             | 66,400  | 86    | 65,400  | 86    | 64,600  | 84    | 63,600  | 82    | 62,200  | 80    | 59,600  | 76    | 56,000  | 70    |
| 746    | 6250             | 6 74             | 69,400  | 98    | 68,600  | 98    | 67,600  | 96    | 66,800  | 94    | 65,600  | 92    | 63,200  | 88    | 60,200  | 82    |
| 775    | 6500             | 7 29             |   |       | 71,600  | 110   | 70,800  | 110   | 70,000  | 110   | 69,000  | 105   | 66,800  | 100   | 64,200  | 96    |
| 805    | 6750             | 7 86             |   |       | 74,600  | 125   | 73,800  | 120   | 73,000  | 120   | 72,200  | 120   | 70,200  | 115   | 67,800  | 110   |
| 835    | 7000             | 8 45             |   |       | 77,600  | 135   |   |       | 77,000  | 135   | 76,400  | 135   | 75,600  | 130   | 71,400  | 125   |
| 865    | 7500             | 9 71             |   |       |   |       |   |       | 83,000  | 170   | 82,400  | 170   | 81,800  | 170   | 78,400  | 160   |
| 895    | 8000             | 11 04            |   |       |   |       |   |       |   |       | 88,600  | 210   | 87,800  | 200   | 85,200  | 195   |
| 955    | 8500             | 12 48            |   |       |   |       |   |       |   |       | 94,800  | 250   | 94,200  | 250   | 91,400  | 240   |
| 1074   | 9000             | 14 00            |   |       |   |       |   |       |   |       |   |       | 100,000   | 290   | 98,000  | 290   |
| 1133   | 9500             | 15 58            |   |       |   |       |   |       |   |       |   |       |   |       | 105,000   | 340   |
| 1193   | 10000            | 17 27            |   |       |   |       |   |       |   |       |   |       |   |       | 111,000   | 400   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 7" Water 2.02 ozs. per sq. inch     |       | Static Pressure 8" Water 2.31 ozs. per sq. inch     |       | Static Pressure 8 1/2" Water 2.89 ozs. per sq. inch |       | Static Pressure 9" Water 3.47 ozs. per sq. inch     |       | Static Pressure 9 1/2" Water 4.05 ozs. per sq. inch |       | Static Pressure 10" Water 4.63 ozs. per sq. inch    |       | Static Pressure 10 1/2" Water 5.2 ozs. per sq. inch |       |
| 656    | 5500             | 5 22             | 37,400  | 38    |   |       |   |       |   |       |   |       |   |       |   |       |
| 686    | 5750             | 5 71             | 45,200  | 50    | 34,600  | 39    |   |       |   |       |   |       |   |       |   |       |
| 716    | 6000             | 6 21             | 51,200  | 62    | 44,000  | 54    |   |       |   |       |   |       |   |       |   |       |
| 746    | 6250             | 6 74             | 56,400  | 74    | 51,000  | 66    |   |       |   |       |   |       |   |       |   |       |
| 775    | 6500             | 7 29             | 60,800  | 90    | 56,600  | 80    | 41,600  | 60    |   |       |   |       |   |       |   |       |
| 805    | 6750             | 7 86             | 65,000  | 105   | 61,600  | 96    | 50,400  | 76    |   |       |   |       |   |       |   |       |
| 835    | 7000             | 8 45             | 69,000  | 120   | 66,000  | 110   | 57,200  | 94    | 39,000  | 66    |   |       |   |       |   |       |
| 865    | 7500             | 9 71             | 76,200  | 150   | 74,000  | 150   | 67,800  | 130   | 58,400  | 110   |   |       |   |       |   |       |
| 895    | 8000             | 11 04            | 83,200  | 190   | 81,200  | 185   | 76,400  | 170   | 70,000  | 150   | 60,000  | 130   |   |       |   |       |
| 955    | 8500             | 12 48            | 90,000  | 230   | 88,400  | 230   | 84,400  | 220   | 79,600  | 200   | 72,600  | 175   | 62,600  | 150   |   |       |
| 1074   | 9000             | 14 00            | 96,200  | 280   | 95,000  | 280   | 91,600  | 270   | 87,400  | 250   | 82,800  | 230   | 75,600  | 200   | 66,200  | 180   |
| 1133   | 9500             | 15 58            | 103,000   | 340   | 102,000   | 330   | 98,800  | 320   | 95,200  | 300   | 91,400  | 290   | 86,000  | 260   | 79,400  | 240   |
| 1193   | 10000            | 17 27            | 109,000   | 400   | 108,000   | 390   | 106,000   | 380   | 103,000   | 370   | 99,000  | 350   | 95,200  | 330   | 89,800  | 310   |

# Double Inlet Size "H" Supervane Fan—Design 1 Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.<br>Static Pressure 1/2" Water .0722 oza. per sq. inch | H. P.   | Volume C.F.M.<br>Static Pressure 1/2" Water .145 oza. per sq. inch | H. P.   | Volume C.F.M.<br>Static Pressure 1/2" Water .217 oza. per sq. inch | H. P.   | Volume C.F.M.<br>Static Pressure 1/2" Water .289 oza. per sq. inch | H. P.   | Volume C.F.M.<br>Static Pressure 1/2" Water .361 oza. per sq. inch | H. P.   | Volume C.F.M.<br>Static Pressure 1/2" Water .434 oza. per sq. inch | H. P.   | Volume C.F.M.<br>Static Pressure 1/2" Water .506 oza. per sq. inch | H. P.   |
|--------|------------------|------------------|---|---|--|---|--|---|--|---|--|---|--|---|--|---|
| 107    | 1010             | 0 176            | 7,280   | 0.25  |  |   |  |   |  |   |  |   |  |   |  |   |
| 127    | 1200             | 0 249            | 13,940  | 0.69  |  |   |  |   |  |   |  |   |  |   |  |   |
| 149    | 1400             | 0 338            | 17,960  | 1.25  |  |   |  |   |  |   |  |   |  |   |  |   |
| 170    | 1600             | 0 441            | 21,200  | 1.95  | 17,300   | 1.5   |  |   |  |   |  |   |  |   |  |   |
| 191    | 1800             | 0 559            | 24,600  | 2.9   | 22,000   | 2.5   | 15,500   | 1.7   |  |   |  |   |  |   |  |   |
| 212    | 2000             | 0 690            | 27,600  | 4.0   | 25,800   | 3.7   | 22,200   | 3.0   |  |   |  |   |  |   |  |   |
| 233    | 2200             | 0.835            | 31,000  | 5.4   | 29,200   | 5.1   | 26,800   | 4.5   | 22,600   | 3.6   |  |   |  |   |  |   |
| 255    | 2400             | 0 994            |   |   | 32,600   | 6.8   | 30,600   | 6.3   | 27,800   | 5.5   | 22,600   | 4.4   |  |   |  |   |
| 276    | 2600             | 1 17             |   |   | 36,200   | 8.7   | 34,200   | 8.3   | 32,200   | 7.6   | 29,200   | 6.6   | 24,200   | 5.5   |  |   |
| 297    | 2800             | 1 35             |   |   | 39,000   | 11.0  | 37,400   | 10.5  | 36,000   | 10.0  | 33,800   | 9.2   | 30,800   | 8.1   | 25,800   | 6.8   |
| 318    | 3000             | 1 55             |   |   | 42,200   | 14.0  | 40,800   | 13.5  | 39,400   | 13.0  | 37,800   | 12  | 35,600   | 11  | 32,000   | 9.8   |
| 340    | 3200             | 1 77             |   |   | 45,200   | 16.5  | 44,000   | 16.5  | 42,800   | 16.0  | 41,400   | 15  | 39,600   | 14  | 37,400   | 13  |
| 361    | 3400             | 2 00             |   |   |  |   | 47,200   | 20  | 46,200   | 19.5  | 45,000   | 19  | 43,400   | 18  | 41,800   | 17  |
| 382    | 3600             | 2 24             |   |   |  |   | 50,400   | 24  | 49,400   | 23  | 48,400   | 23  | 47,000   | 22  | 45,600   | 21  |
| 403    | 3800             | 2 49             |   |   |  |   | 52,400   | 28  | 52,600   | 28  | 51,600   | 27  | 50,400   | 26  | 49,200   | 25  |
| 425    | 4000             | 2 76             |   |   |  |   |  |   | 55,600   | 33  | 54,800   | 32  | 53,800   | 31  | 52,800   | 30  |
| 445    | 4200             | 3 04             |   |   |  |   |  |   | 58,800   | 38  | 58,000   | 37  | 57,200   | 37  | 56,200   | 36  |
| 467    | 4400             | 3 34             |   |   |  |   |  |   | 62,000   | 44  | 61,200   | 43  | 60,400   | 42  | 59,600   | 42  |
| 488    | 4600             | 3 65             |   |   |  |   |  |   |  |   | 64,400   | 50  | 63,600   | 49  | 62,800   | 48  |
| 510    | 4800             | 3 98             |   |   |  |   |  |   |  |   | 67,400   | 56  | 66,600   | 56  | 66,000   | 54  |
| 531    | 5000             | 4 31             |   |   |  |   |  |   |  |   | 70,400   | 64  | 70,000   | 64  | 69,200   | 62  |
| 557    | 5250             | 4 76             |   |   |  |   |  |   |  |   |  |   | 73,600   | 74  | 73,000   | 74  |
| 584    | 5500             | 5 22             |   |   |  |   |  |   |  |   |  |   | 77,400   | 86  | 76,800   | 84  |
| 610    | 5750             | 5 71             |   |   |  |   |  |   |  |   |  |   |  |   | 80,600   | 96  |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1 1/2" Water .578 oza. per sq. inch                 | Static Pressure 1 1/2" Water .723 oza. per sq. inch | Static Pressure 1 1/2" Water .878 oza. per sq. inch                | Static Pressure 1 1/2" Water 1.01 oza. per sq. inch | Static Pressure 1 1/2" Water 1.16 oza. per sq. inch                | Static Pressure 1 1/2" Water 1.45 oza. per sq. inch | Static Pressure 1 1/2" Water 1.73 oza. per sq. inch                | Static Pressure 1 1/2" Water 1.73 oza. per sq. inch | Static Pressure 1 1/2" Water 1.73 oza. per sq. inch                | Static Pressure 1 1/2" Water 1.73 oza. per sq. inch | Static Pressure 1 1/2" Water 1.73 oza. per sq. inch                | Static Pressure 1 1/2" Water 1.73 oza. per sq. inch | Static Pressure 1 1/2" Water 1.73 oza. per sq. inch                | Static Pressure 1 1/2" Water 1.73 oza. per sq. inch |
| 318    | 3000             | 1 55             | 28,000  | 8.4   |  |   |  |   |  |   |  |   |  |   |  |   |
| 340    | 3200             | 1 77             | 34,600  | 12  | 23,400   | 8.2   |  |   |  |   |  |   |  |   |  |   |
| 361    | 3400             | 2 00             | 39,600  | 16  | 33,000   | 13  |  |   |  |   |  |   |  |   |  |   |
| 382    | 3600             | 2 24             | 44,000  | 20  | 39,200   | 17  | 31,000   | 13.5  |  |   |  |   |  |   |  |   |
| 403    | 3800             | 2 49             | 47,800  | 24  | 41,200   | 22  | 38,800   | 19  | 28,600   | 14  |  |   |  |   |  |   |
| 425    | 4000             | 2 76             | 51,600  | 29  | 48,600   | 27  | 44,800   | 24  | 38,000   | 20  |  |   |  |   |  |   |
| 445    | 4200             | 3 04             | 55,000  | 35  | 52,600   | 33  | 49,800   | 30  | 44,600   | 26  | 37,600   | 22  |  |   |  |   |
| 467    | 4400             | 3 34             | 58,800  | 41  | 56,000   | 39  | 53,800   | 36  | 50,000   | 33  | 45,200   | 29  |  |   |  |   |
| 488    | 4600             | 3 65             | 62,200  | 48  | 60,000   | 45  | 57,800   | 43  | 54,800   | 40  | 51,000   | 36  | 37,600   | 27  |  |   |
| 510    | 4800             | 3 98             | 65,400  | 54  | 63,400   | 52  | 61,200   | 50  | 58,800   | 47  | 55,800   | 44  | 46,200   | 36  |  |   |
| 531    | 5000             | 4 31             | 68,600  | 62  | 67,000   | 60  | 65,000   | 58  | 62,800   | 56  | 60,400   | 52  | 52,800   | 44  | 39,000   | 33  |
| 557    | 5250             | 4 76             | 72,400  | 72  | 71,000   | 72  | 69,200   | 64  | 67,600   | 66  | 65,400   | 64  | 59,600   | 56  | 50,400   | 46  |
| 584    | 5500             | 5 22             | 76,400  | 84  | 75,000   | 82  | 73,600   | 80  | 71,800   | 78  | 70,000   | 76  | 65,000   | 68  | 58,600   | 60  |
| 610    | 5750             | 5 71             | 80,200  | 96  | 79,000   | 94  | 77,800   | 94  | 76,200   | 90  | 74,800   | 88  | 70,800   | 82  | 65,200   | 74  |
| 637    | 6000             | 6 21             | 84,200  | 110   | 83,000   | 110   | 82,000   | 110   | 80,600   | 105   | 79,000   | 105   | 75,000   | 96  | 71,000   | 88  |
| 663    | 6250             | 6 74             | 88,000  | 125   | 87,200   | 125   | 85,800   | 120   | 84,800   | 120   | 83,200   | 115   | 80,000   | 110   | 76,400   | 105   |
| 690    | 6500             | 7 29             |   | 140   | 90,800   | 140   | 90,000   | 135   | 88,800   | 135   | 87,600   | 130   | 84,600   | 130   | 81,400   | 120   |
| 716    | 6750             | 7 86             |   | 155   | 94,800   | 155   | 93,600   | 155   | 92,600   | 150   | 91,600   | 150   | 89,200   | 145   | 86,000   | 140   |
| 743    | 7000             | 8 45             |   | 175   | 98,400   | 175   | 97,600   | 170   | 96,800   | 170   | 95,800   | 170   | 93,200   | 165   | 90,600   | 160   |
| 796    | 7500             | 9 71             |   |   |  |   | 105,400  | 210   | 104,000  | 210   | 104,000  | 210   | 102,000  | 210   | 99,400   | 200   |
| 849    | 8000             | 11 04            |   |   |  |   |  |   | 112,000  | 260   | 111,000  | 260   | 110,000  | 250   | 108,000  | 250   |
| 902    | 8500             | 12 48            |   |   |  |   |  |   | 120,000  | 310   | 119,000  | 310   | 118,000  | 310   | 116,000  | 300   |
| 955    | 9000             | 14 00            |   |   |  |   |  |   |  |   | 127,000  | 370   | 126,000  | 370   | 124,000  | 360   |
| 1008   | 9500             | 15 58            |   |   |  |   |  |   |  |   |  |   | 133,000  | 440   | 132,000  | 430   |
| 1060   | 10000            | 17 27            |   |   |  |   |  |   |  |   |  |   | 141,000  | 510   | 140,000  | 500   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 3 1/2" Water 2.02 oza. per sq. inch                 | Static Pressure 4" Water 2.31 oza. per sq. inch     | Static Pressure 5" Water 2.89 oza. per sq. inch                    | Static Pressure 6" Water 3.47 oza. per sq. inch     | Static Pressure 7" Water 4.05 oza. per sq. inch                    | Static Pressure 8" Water 4.63 oza. per sq. inch     | Static Pressure 9" Water 5.2 oza. per sq. inch                     | Static Pressure 9" Water 5.2 oza. per sq. inch      | Static Pressure 9" Water 5.2 oza. per sq. inch                     | Static Pressure 9" Water 5.2 oza. per sq. inch      | Static Pressure 9" Water 5.2 oza. per sq. inch                     | Static Pressure 9" Water 5.2 oza. per sq. inch      | Static Pressure 9" Water 5.2 oza. per sq. inch                     | Static Pressure 9" Water 5.2 oza. per sq. inch      |
| 584    | 5500             | 5 22             | 47,400  | 48  |  |   |  |   |  |   |  |   |  |   |  |   |
| 610    | 5750             | 5 71             | 57,200  | 64  | 43,800   | 49  |  |   |  |   |  |   |  |   |  |   |
| 637    | 6000             | 6 21             | 65,000  | 78  | 55,800   | 68  |  |   |  |   |  |   |  |   |  |   |
| 663    | 6250             | 6 74             | 71,600  | 94  | 64,600   | 84  |  |   |  |   |  |   |  |   |  |   |
| 690    | 6500             | 7 29             | 77,200  | 110   | 71,800   | 100   | 52,800   | 76  |  |   |  |   |  |   |  |   |
| 716    | 6750             | 7 86             | 82,400  | 130   | 78,000   | 120   | 64,000   | 98  |  |   |  |   |  |   |  |   |
| 743    | 7000             | 8 45             | 87,400  | 150   | 83,800   | 140   | 72,600   | 120   | 50,200   | 84  |  |   |  |   |  |   |
| 796    | 7500             | 9 71             | 96,800  | 195   | 94,000   | 190   | 86,200   | 165   | 74,000   | 135   |  |   |  |   |  |   |
| 849    | 8000             | 11 04            | 106,000   | 240   | 103,000  | 240   | 97,000   | 220   | 88,800   | 190   | 76,200   | 165   |  |   |  |   |
| 902    | 8500             | 12 48            | 114,000   | 300   | 112,000  | 290   | 107,000  | 270   | 101,000  | 250   | 92,000   | 220   | 79,400   | 190   |  |   |
| 955    | 9000             | 14 00            | 122,000   | 360   | 121,000  | 350   | 116,000  | 340   | 111,000  | 320   | 105,000  | 290   | 96,000   | 260   | 84,000   | 230   |
| 1008   | 9500             | 15 58            | 131,000   | 430   | 129,000  | 420   | 125,000  | 410   | 121,000  | 390   | 116,000  | 360   | 109,000  | 340   | 101,000  | 300   |
| 1060   | 10000            | 17 27            | 138,000   | 500   | 137,000  | 500   | 134,000  | 490   | 130,000  | 460   | 126,000  | 440   | 121,000  | 420   | 114,000  | 390   |

**Double Inlet      Size "J" Supervane Fan—Design 1      Double Width**  
**When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances**

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.                                      | H. P. | Volume C.F.M.                                     | H. P. | Volume C.F.M.                                     | H. P. | Volume C.F.M.                                     | H. P. | Volume C.F.M.                                     | H. P. | Volume C.F.M.                                     | H. P. | Volume C.F.M.                                     | H. P. |
|--------|------------------|------------------|--|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|
|        |                  |                  | Static Pressure 1/4" Water .0722 ozs. per sq. inch |       | Static Pressure 1/4" Water .145 ozs. per sq. inch |       | Static Pressure 3/8" Water .217 ozs. per sq. inch |       | Static Pressure 1/2" Water .289 ozs. per sq. inch |       | Static Pressure 5/8" Water .361 ozs. per sq. inch |       | Static Pressure 3/4" Water .434 ozs. per sq. inch |       | Static Pressure 7/8" Water .506 ozs. per sq. inch |       |
| 96     | 1010             | 0 176            | 8,960  | 0 31  |   |       |   |       |   |       |   |       |   |       |   |       |
| 115    | 1200             | 0 249            | 17,200   | 0 85  |   |       |   |       |   |       |   |       |   |       |   |       |
| 134    | 1400             | 0 338            | 22,200   | 1 50  |   |       |   |       |   |       |   |       |   |       |   |       |
| 153    | 1600             | 0 441            | 26,200   | 0 24  | 21,400  | 1 85  |   |       |   |       |   |       |   |       |   |       |
| 172    | 1800             | 0 559            | 30,400   | 3 6   | 27,200  | 3 1   | 19,100  | 2 1   |   |       |   |       |   |       |   |       |
| 191    | 2000             | 0 690            | 34,200   | 4 9   | 31,800  | 4 5   | 27,400  | 3 7   |   |       |   |       |   |       |   |       |
| 210    | 2200             | 0 835            | 38,200   | 6 7   | 36,200  | 6 3   | 33,200  | 5 6   | 27,800  | 4 4   |   |       |   |       |   |       |
| 229    | 2400             | 0 994            |  |       | 40,200  | 8 4   | 37,800  | 7 8   | 34,100  | 6 8   | 27,800  | 5 4   |   |       |   |       |
| 248    | 2600             | 1 17             |  |       | 44,600  | 11 0  | 42,200  | 10 0  | 39,600  | 9 4   | 36,000  | 8 2   | 30,000  | 6 8   |   |       |
| 268    | 2800             | 1 35             |  |       | 48,200  | 13 5  | 46,200  | 13 0  | 44,400  | 12 5  | 41,600  | 11 5  | 38,000  | 10 0  | 31,800  | 8 4   |
| 287    | 3000             | 1 55             |  |       | 52,000  | 17    | 50,400  | 16 5  | 48,800  | 16 0  | 46,600  | 15    | 43,800  | 14 0  | 40,200  | 12    |
| 306    | 3200             | 1 77             |  |       | 55,600  | 21    | 54,400  | 20    | 53,000  | 19 5  | 51,200  | 19    | 49,000  | 17 5  | 46,200  | 16    |
| 325    | 3400             | 2 00             |  |       |   |       | 58,200  | 21    | 57,000  | 24    | 55,600  | 23    | 53,600  | 22    | 51,600  | 21    |
| 344    | 3600             | 2 24             |  |       |   |       | 62,200  | 29    | 60,800  | 29    | 59,600  | 28    | 58,200  | 27    | 56,200  | 26    |
| 363    | 3800             | 2 49             |  |       |   |       | 66,000  | 34    | 65,000  | 34    | 63,600  | 34    | 62,200  | 32    | 60,800  | 31    |
| 382    | 4000             | 2 76             |  |       |   |       |   |       | 68,800  | 40    | 67,600  | 39    | 66,400  | 38    | 65,200  | 37    |
| 401    | 4200             | 3 04             |  |       |   |       |   |       | 72,600  | 46    | 71,600  | 46    | 70,600  | 45    | 69,400  | 44    |
| 420    | 4400             | 3 34             |  |       |   |       |   |       | 76,400  | 51    | 75,600  | 54    | 74,600  | 52    | 73,400  | 52    |
| 440    | 4600             | 3 65             |  |       |   |       |   |       |   |       | 79,400  | 62    | 78,400  | 60    | 77,400  | 60    |
| 459    | 4800             | 3 98             |  |       |   |       |   |       |   |       | 83,000  | 70    | 82,200  | 68    | 81,400  | 68    |
| 478    | 5000             | 4 31             |  |       |   |       |   |       |   |       | 87,000  | 78    | 86,200  | 78    | 85,200  | 78    |
| 501    | 5250             | 4 76             |  |       |   |       |   |       |   |       |   |       | 90,800  | 92    | 90,000  | 90    |
| 525    | 5500             | 5 22             |  |       |   |       |   |       |   |       |   |       | 95,800  | 105   | 95,000  | 105   |
| 549    | 5750             | 5 71             |  |       |   |       |   |       |   |       |   |       |   |       | 99,800  | 120   |

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 ozs. per sq. inch | Static Pressure 1 1/4" Water .723 ozs. per sq. inch | Static Pressure 1 1/2" Water .878 ozs. per sq. inch | Static Pressure 1 3/4" Water 1.01 ozs. per sq. inch | Static Pressure 2" Water 1.16 ozs. per sq. inch | Static Pressure 2 1/2" Water 1.45 ozs. per sq. inch | Static Pressure 3" Water 1.73 ozs. per sq. inch |
|--------|------------------|------------------|---|---|---|---|---|---|---|
| 287    | 3000             | 1.55             | 34,400  | 10.5  |   |   |   |   |   |
| 306    | 3200             | 1.77             | 42,800  | 14.5  | 28,800  | 10  |   |   |   |
| 325    | 3400             | 2.00             | 48,800  | 19.5  | 40,880  | 16  |   |   |   |
| 344    | 3600             | 2.24             | 54,400  | 25  | 48,400  | 21  | 38,200  | 16.5  |   |
| 363    | 3800             | 2.49             | 59,000  | 30  | 54,600  | 27  | 47,800  | 23  | 35,200  |
| 382    | 4000             | 2.76             | 63,600  | 36  | 60,000  | 33  | 55,400  | 30  | 47,000  |
| 401    | 4200             | 3.04             | 68,000  | 43  | 65,000  | 40  | 61,400  | 37  | 55,000  |
| 420    | 4400             | 3.34             | 72,400  | 50  | 69,600  | 48  | 66,400  | 45  | 61,600  |
| 440    | 4600             | 3.65             | 76,600  | 58  | 74,000  | 56  | 71,000  | 52  | 67,600  |
| 459    | 4800             | 3.98             | 80,800  | 68  | 78,200  | 64  | 75,600  | 62  | 72,800  |
| 478    | 5000             | 4.31             | 84,600  | 76  | 82,600  | 74  | 80,200  | 72  | 77,400  |
| 501    | 5250             | 4.76             | 89,400  | 90  | 87,800  | 88  | 85,600  | 84  | 83,400  |
| 525    | 5500             | 5.22             | 94,200  | 105   | 92,600  | 100   | 91,000  | 100   | 88,800  |
| 549    | 5750             | 5.71             | 99,000  | 120   | 97,600  | 115   | 96,000  | 115   | 94,200  |
| 574    | 6000             | 6.21             | 104,000   | 135   | 103,000   | 130   | 101,000   | 130   | 99,400  |
| 597    | 6250             | 6.74             | 109,000   | 150   | 107,000   | 150   | 106,000   | 150   | 104,000   |
| 621    | 6500             | 7.29             |   |   | 112,000   | 170   | 111,000   | 170   | 109,000   |
| 645    | 6750             | 7.86             |   |   | 117,000   | 190   | 116,000   | 190   | 114,000   |
| 669    | 7000             | 8.45             |   |   | 121,000   | 220   | 120,000   | 210   | 119,000   |
| 716    | 7500             | 9.71             |   |   |   |   | 130,000   | 270   | 129,000   |
| 764    | 8000             | 11.04            |   |   |   |   | 138,000   | 320   | 137,000   |
| 812    | 8500             | 12.48            |   |   |   |   | 148,000   | 390   | 147,000   |
| 860    | 9000             | 14.00            |   |   |   |   |   |   | 156,000   |
| 908    | 9500             | 15.58            |   |   |   |   |   |   | 165,000   |
| 955    | 10000            | 17.27            |   |   |   |   |   |   | 174,000   |

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 3 1/2" Water 2.03 ozs. per sq. inch | Static Pressure 4" Water 2.31 ozs. per sq. inch | Static Pressure 5" Water 2.89 ozs. per sq. inch | Static Pressure 6" Water 3.47 ozs. per sq. inch | Static Pressure 7" Water 4.05 ozs. per sq. inch | Static Pressure 8" Water 4.63 ozs. per sq. inch | Static Pressure 9" Water 5.2 ozs. per sq. inch |
|--------|------------------|------------------|---|---|---|---|---|---|--|
| 525    | 5500             | 5.22             | 58,400  | 60  |   |   |   |   |  |
| 549    | 5750             | 5.71             | 70,800  | 78  | 54,200  | 60  |   |   |  |
| 574    | 6000             | 6.21             | 80,000  | 96  | 68,800  | 84  |   |   |  |
| 597    | 6250             | 6.74             | 88,200  | 115   | 79,600  | 105   |   |   |  |
| 621    | 6500             | 7.29             | 95,200  | 140   | 88,600  | 125   | 65,000  | 92  |  |
| 645    | 6750             | 7.86             | 102,000   | 160   | 96,200  | 150   | 78,800  | 120   |  |
| 669    | 7000             | 8.45             | 108,000   | 190   | 103,000   | 175   | 89,600  | 150   | 62,000   |
| 716    | 7500             | 9.71             | 119,000   | 240   | 116,000   | 230   | 106,000   | 200   | 91,200   |
| 764    | 8000             | 11.04            | 130,000   | 300   | 127,000   | 290   | 120,000   | 270   | 110,000  |
| 812    | 8500             | 12.48            | 141,000   | 370   | 138,000   | 360   | 132,000   | 340   | 124,000  |
| 860    | 9000             | 14.00            | 151,000   | 440   | 149,000   | 430   | 144,000   | 420   | 137,000  |
| 908    | 9500             | 15.58            | 161,000   | 530   | 159,000   | 520   | 155,000   | 500   | 149,000  |
| 955    | 10000            | 17.27            | 171,000   | 620   | 169,000   | 610   | 165,000   | 600   | 160,000  |

**Double Inlet      Size "K" Supervane Fan—Design 1      Double Width**  
**When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances**

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.<br>Static Pressure<br>1/2" Water<br>.0722 ozs. per sq. inch | H. P.   | Volume C.F.M.<br>Static Pressure<br>1/4" Water<br>.145 ozs. per sq. inch | H. P.   | Volume C.F.M.<br>Static Pressure<br>3/8" Water<br>.217 ozs. per sq. inch | H. P.   | Volume C.F.M.<br>Static Pressure<br>1/2" Water<br>.289 ozs. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure<br>5/8" Water<br>.361 ozs. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure<br>3/4" Water<br>.434 ozs. per sq. inch | H. P.   | Volume C.F.M.<br>Static Pressure<br>7/8" Water<br>.506 ozs. per sq. inch | H. P. |
|--------|------------------|------------------|---|---|--|---|--|---|--|-------|--|-------|--|---------|--|-------|
| 84     | 1010             | 0 176            | 11,880  | 0 41  |  |   |  |   |  |       |  |       |  |         |  |       |
| 100    | 1200             | 0 249            | 22,800  | 1 1   |  |   |  |   |  |       |  |       |  |         |  |       |
| 116    | 1400             | 0 338            | 29,100  | 2 1   |  |   |  |   |  |       |  |       |  |         |  |       |
| 133    | 1600             | 0 441            | 34,600  | 3 2   | 28,400   | 2 4   |  |   |  |       |  |       |  |         |  |       |
| 150    | 1800             | 0 559            | 40,400  | 4 7   | 36,000   | 4 1   | 25,400   | 2 8   |  |       |  |       |  |         |  |       |
| 166    | 2000             | 0 690            | 45,200  | 6 5   | 42,200   | 6 0   | 36,400   | 2 9   |  |       |  |       |  |         |  |       |
| 183    | 2200             | 0 835            | 50,800  | 8 9   | 48,000   | 8 1   | 41,000   | 7 1   | 37,000   | 5 8   |  |       |  |         |  |       |
| 199    | 2400             | 0 994            |   |   | 53,400   | 11 0  | 50,200   | 10 5  | 45,600   | 9 0   | 37,000   | 7 1   |  |         |  |       |
| 216    | 2600             | 1 17             |   |   | 59,200   | 14 5  | 56,000   | 13 5  | 52,600   | 12 5  | 47,800   | 11    | 39,600   | 9       |  |       |
| 233    | 2800             | 1 35             |   |   | 63,800   | 18  | 61,200   | 17  | 58,800   | 16 5  | 55,200   | 15    | 50,400   | 13      | 42,200   | 11    |
| 249    | 3000             | 1 55             |   |   | 69,000   | 23  | 66,800   | 22  | 64,600   | 21    | 61,800   | 20    | 58,200   | 18      | 53,200   | 16    |
| 266    | 3200             | 1 77             |   |   | 73,800   | 27  | 72,200   | 27  | 70,200   | 26    | 67,800   | 25    | 65,000   | 23      | 61,400   | 22    |
| 282    | 3400             | 2 00             |   |   |  |   | 77,200   | 32  | 75,600   | 32    | 73,600   | 30    | 71,000   | 29      | 68,600   | 28    |
| 299    | 3600             | 2 24             |   |   |  |   | 82,600   | 39  | 80,800   | 38    | 79,200   | 37    | 77,200   | 36      | 74,600   | 34    |
| 316    | 3800             | 2 49             |   |   |  |   | 87,400   | 46  | 86,200   | 45    | 84,400   | 44    | 82,600   | 43      | 80,600   | 42    |
| 332    | 4000             | 2 76             |   |   |  |   |  |   | 91,200   | 54    | 89,800   | 52    | 88,200   | 52      | 86,400   | 50    |
| 349    | 4200             | 3 04             |   |   |  |   |  |   | 96,200   | 62    | 95,000   | 60    | 93,600   | 60      | 92,000   | 58    |
| 365    | 4400             | 3 34             |   |   |  |   |  |   | 101,000  | 72    | 100,000  | 70    | 99,000   | 70      | 97,400   | 68    |
| 382    | 4600             | 3 65             |   |   |  |   |  |   |  |       | 105,000  | 82    | 104,000  | 80      | 103,000  | 78    |
| 399    | 4800             | 3 98             |   |   |  |   |  |   |  |       | 110,000  | 92    | 109,000  | 92      | 108,000  | 90    |
| 415    | 5000             | 4 31             |   |   |  |   |  |   |  |       | 115,000  | 105   | 114,000  | 105     | 113,000  | 105   |
| 436    | 5250             | 4 76             |   |   |  |   |  |   |  |       |  |       | 121,000  | 120     | 120,000  | 120   |
| 456    | 5500             | 5 22             |   |   |  |   |  |   |  |       |  |       | 127,000  | 140     | 126,000  | 135   |
| 477    | 5750             | 5 71             |   |   |  |   |  |   |  |       |  |       |  | 132,000 | 160  |       |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 ozs. per sq. inch                           | Static Pressure 1 1/4" Water .723 ozs. per sq. inch | Static Pressure 1 1/2" Water .878 ozs. per sq. inch                      | Static Pressure 1 3/4" Water 1.01 ozs. per sq. inch | Static Pressure 2" Water 1.16 ozs. per sq. inch                          | Static Pressure 2 1/2" Water 1.45 ozs. per sq. inch | Static Pressure 3" Water 1.73 ozs. per sq. inch                          |       |  |       |  |         |  |       |
| 249    | 3000             | 1 55             | 45,600  | 14  |  |   |  |   |  |       |  |       |  |         |  |       |
| 266    | 3200             | 1 77             | 56,800  | 19  | 38,200   | 13  |  |   |  |       |  |       |  |         |  |       |
| 282    | 3400             | 2 00             | 64,800  | 26  | 54,000   | 21  |  |   |  |       |  |       |  |         |  |       |
| 299    | 3600             | 2 24             | 72,000  | 33  | 61,000   | 28  | 50,800   | 22  |  |       |  |       |  |         |  |       |
| 316    | 3800             | 2 49             | 78,400  | 40  | 72,400   | 36  | 63,400   | 31  | 46,600   | 23    |  |       |  |         |  |       |
| 332    | 4000             | 2 76             | 84,400  | 48  | 79,600   | 44  | 73,400   | 40  | 62,200   | 33    |  |       |  |         |  |       |
| 349    | 4200             | 3 04             | 90,200  | 56  | 86,200   | 54  | 81,400   | 49  | 73,000   | 43    | 61,600   | 36    |  |         |  |       |
| 365    | 4400             | 3 34             | 96,200  | 66  | 92,400   | 64  | 88,000   | 60  | 81,800   | 54    | 73,800   | 48    |  |         |  |       |
| 382    | 4600             | 3 65             | 102,000   | 78  | 98,200   | 74  | 94,200   | 70  | 89,600   | 66    | 83,400   | 60    | 61,400   | 44      |  |       |
| 399    | 4800             | 3 98             | 107,000   | 90  | 104,000  | 86  | 100,000  | 82  | 96,400   | 78    | 91,400   | 72    | 75,600   | 58      |  |       |
| 415    | 5000             | 4 31             | 112,000   | 105   | 109,000  | 98  | 106,000  | 94  | 103,000  | 90    | 98,800   | 86    | 86,600   | 72      | 63,800   | 54    |
| 436    | 5250             | 4 76             | 119,000   | 120   | 116,000  | 115   | 113,000  | 110   | 111,000  | 110   | 107,000  | 105   | 97,600   | 92      | 82,400   | 76    |
| 456    | 5500             | 5 22             | 125,000   | 135   | 123,000  | 135   | 121,000  | 130   | 118,000  | 130   | 115,000  | 125   | 107,000  | 110     | 96,000   | 96    |
| 477    | 5750             | 5 71             | 131,000   | 155   | 130,000  | 155   | 127,000  | 150   | 125,000  | 150   | 122,000  | 145   | 116,000  | 135     | 107,000  | 120   |
| 498    | 6000             | 6 21             | 138,000   | 180   | 136,000  | 175   | 134,000  | 175   | 132,000  | 170   | 129,000  | 170   | 124,000  | 155     | 116,000  | 145   |
| 519    | 6250             | 6 74             | 144,000   | 200   | 142,000  | 200   | 140,000  | 200   | 139,000  | 195   | 136,000  | 190   | 131,000  | 185     | 125,000  | 170   |
| 540    | 6500             | 7 29             | 149,000   | 230   | 147,000  | 220   | 145,000  | 220   | 143,000  | 220   | 143,000  | 220   | 138,000  | 210     | 133,000  | 200   |
| 560    | 6750             | 7 86             | 155,000   | 260   | 153,000  | 250   | 152,000  | 250   | 150,000  | 250   | 146,000  | 250   | 146,000  | 240     | 141,000  | 230   |
| 581    | 7000             | 8 45             |   | 290   | 161,000  | 280   | 158,000  | 280   | 157,000  | 280   | 153,000  | 270   | 153,000  | 270     | 148,000  | 260   |
| 623    | 7500             | 9 71             |   |   | 172,000  | 350   | 171,000  | 350   | 170,000  | 340   | 167,000  | 340   | 167,000  | 340     | 163,000  | 330   |
| 664    | 8000             | 11 04            |   |   |  |   | 184,000  | 430   | 182,000  | 420   | 180,000  | 420   | 180,000  | 420     | 177,000  | 410   |
| 705    | 8500             | 12 48            |   |   |  |   | 197,000  | 510   | 195,000  | 510   | 193,000  | 510   | 193,000  | 510     | 190,000  | 500   |
| 747    | 9000             | 14 00            |   |   |  |   |  |   | 207,000  | 610   | 205,000  | 600   | 204,000  | 600     | 201,000  | 600   |
| 788    | 9500             | 15 58            |   |   |  |   |  |   |  |       | 218,000  | 710   | 216,000  | 700     | 216,000  | 700   |
| 930    | 10000            | 17 27            |   |   |  |   |  |   |  |       | 230,000  | 830   | 228,000  | 830     | 228,000  | 830   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 3 1/2" Water 2.89 ozs. per sq. inch                       | Static Pressure 4" Water 2.31 ozs. per sq. inch     | Static Pressure 5" Water 2.89 ozs. per sq. inch                          | Static Pressure 6" Water 3.47 ozs. per sq. inch     | Static Pressure 7" Water 4.05 ozs. per sq. inch                          | Static Pressure 8" Water 4.63 ozs. per sq. inch     | Static Pressure 9" Water 5.2 ozs. per sq. inch                           |       |  |       |  |         |  |       |
| 456    | 5500             | 5 22             | 77,100  | 78  |  |   |  |   |  |       |  |       |  |         |  |       |
| 477    | 5750             | 5 71             | 93,800  | 105   | 71,800   | 80  |  |   |  |       |  |       |  |         |  |       |
| 498    | 6000             | 6 21             | 106,000   | 130   | 91,200   | 110   |  |   |  |       |  |       |  |         |  |       |
| 519    | 6250             | 6 74             | 117,000   | 155   | 106,000  | 125   |  |   |  |       |  |       |  |         |  |       |
| 540    | 6500             | 7 29             | 126,000   | 185   | 118,000  | 170   | 86,200   | 125   |  |       |  |       |  |         |  |       |
| 560    | 6750             | 7 86             | 135,000   | 210   | 128,000  | 200   | 105,000  | 160   |  |       |  |       |  |         |  |       |
| 581    | 7000             | 8 45             | 143,000   | 250   | 137,000  | 230   | 119,000  | 190   | 82,400   | 135   |  |       |  |         |  |       |
| 623    | 7500             | 9 71             | 158,000   | 320   | 154,000  | 300   | 141,000  | 270   | 121,000  | 220   |  |       |  |         |  |       |
| 664    | 8000             | 11 04            | 173,000   | 400   | 169,000  | 390   | 159,000  | 350   | 145,000  | 310   | 125,000  | 270   |  |         |  |       |
| 705    | 8500             | 12 48            | 187,000   | 490   | 184,000  | 480   | 175,000  | 450   | 165,000  | 410   | 151,000  | 370   | 130,000  | 320     |  |       |
| 747    | 9000             | 14 00            | 200,000   | 590   | 198,000  | 580   | 190,000  | 550   | 181,000  | 520   | 172,000  | 480   | 157,000  | 420     | 137,000  | 370   |
| 788    | 9500             | 15 58            | 214,000   | 700   | 212,000  | 690   | 206,000  | 660   | 198,000  | 630   | 190,000  | 600   | 179,000  | 550     | 165,000  | 500   |
| 930    | 10000            | 17 27            | 226,000   | 820   | 224,000  | 810   | 220,000  | 790   | 212,000  | 760   | 203,000  | 720   | 198,000  | 680     | 187,000  | 640   |

# Double Inlet Size "L" Supervane Fan—Design 1 Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.                                      | H. P. | Volume C.F.M.                                     | H. P. | Volume C.F.M.                                     | H. P. | Volume C.F.M.                                   | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. |
|--------|------------------|------------------|--|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|
|        |                  |                  | Static Pressure 1/2" Water .0722 ozs. per sq. inch |       | Static Pressure 1/2" Water .145 ozs. per sq. inch |       | Static Pressure 3/4" Water .217 ozs. per sq. inch |       | Static Pressure 1" Water .289 ozs. per sq. inch |       | Static Pressure 1 1/4" Water .361 ozs. per sq. inch |       | Static Pressure 1 1/2" Water .434 ozs. per sq. inch |       | Static Pressure 1 3/4" Water .506 ozs. per sq. inch |       |
| 74     | 1010             | 0 176            | 15,100   | 0 52  |   |       |   |       |   |       |   |       |   |       |   |       |
| 88     | 1200             | 0 219            | 29,000   | 1 15  |   |       |   |       |   |       |   |       |   |       |   |       |
| 103    | 1400             | 0 338            | 37,400   | 2 6   |   |       |   |       |   |       |   |       |   |       |   |       |
| 118    | 1600             | 0 441            | 41,200   | 4 1   | 36,000  | 3 1   |   |       |   |       |   |       |   |       |   |       |
| 132    | 1800             | 0 559            | 51,600   | 6 0   | 45,800  | 5 2   | 32,400  | 3 5   |   |       |   |       |   |       |   |       |
| 147    | 2000             | 0 690            | 57,800   | 8 3   | 53,800  | 7 6   | 46,400  | 6 2   |   |       |   |       |   |       |   |       |
| 162    | 2200             | 0 835            | 64,800   | 11 5  | 61,200  | 10 5  | 56,000  | 9 4   | 47,000  | 7 5   |   |       |   |       |   |       |
| 176    | 2400             | 0 991            |  |       | 68,000  | 14    | 64,000  | 13 0  | 58,200  | 11    | 47,000  | 9 1   |   |       |   |       |
| 191    | 2600             | 1 17             |  |       | 75,400  | 18    | 71,600  | 17 5  | 67,000  | 16    | 60,800  | 14    | 50,600  | 11 5  |   |       |
| 206    | 2800             | 1 35             |  |       | 81,400  | 23    | 78,000  | 22    | 75,000  | 21    | 70,100  | 19    | 64,000  | 17    | 53,800  | 14    |
| 220    | 3000             | 1 55             |  |       | 88,000  | 29    | 85,200  | 28    | 82,400  | 27    | 78,800  | 25    | 74,000  | 23    | 67,800  | 20    |
| 235    | 3200             | 1 77             |  |       | 91,000  | 35    | 92,000  | 34    | 89,400  | 33    | 86,400  | 32    | 82,800  | 30    | 78,200  | 27    |
| 250    | 3400             | 2 00             |  |       |   |       | 98,600  | 41    | 96,400  | 40    | 93,800  | 39    | 90,600  | 37    | 87,200  | 35    |
| 264    | 3600             | 2 24             |  |       |   |       | 105,000   | 49    | 103,000   | 49    | 101,000   | 47    | 98,200  | 46    | 95,000  | 44    |
| 279    | 3800             | 2 49             |  |       |   |       | 111,000   | 58    | 110,000   | 58    | 107,000   | 56    | 105,000   | 54    | 103,000   | 51    |
| 294    | 4000             | 2 76             |  |       |   |       |   |       | 116,000   | 68    | 114,000   | 66    | 112,000   | 64    | 110,000   | 61    |
| 309    | 4200             | 3 01             |  |       |   |       |   |       | 123,000   | 78    | 121,000   | 78    | 119,000   | 76    | 117,000   | 74    |
| 323    | 4400             | 3 34             |  |       |   |       |   |       | 130,000   | 90    | 128,000   | 90    | 126,000   | 88    | 124,000   | 88    |
| 338    | 4600             | 3 65             |  |       |   |       |   |       |   |       | 134,000   | 105   | 133,000   | 100   | 131,000   | 100   |
| 353    | 4800             | 3 98             |  |       |   |       |   |       |   |       | 140,000   | 115   | 139,000   | 115   | 138,000   | 115   |
| 368    | 5000             | 4 31             |  |       |   |       |   |       |   |       | 147,000   | 130   | 146,000   | 130   | 144,000   | 130   |
| 386    | 5250             | 4 76             |  |       |   |       |   |       |   |       |   |       | 154,000   | 150   | 152,000   | 150   |
| 404    | 5500             | 5 22             |  |       |   |       |   |       |   |       |   |       | 162,000   | 175   | 160,000   | 175   |
| 423    | 5750             | 5 71             |  |       |   |       |   |       |   |       |   |       | 169,000   | 200   | 169,000   | 200   |

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 ozs. per sq. inch | Static Pressure 1 1/4" Water .723 ozs. per sq. inch | Static Pressure 1 1/2" Water .878 ozs. per sq. inch | Static Pressure 1 3/4" Water 1.01 ozs. per sq. inch | Static Pressure 2" Water 1.16 ozs. per sq. inch | Static Pressure 2 1/4" Water 1.45 ozs. per sq. inch | Static Pressure 2 1/2" Water 1.73 ozs. per sq. inch |     |
|--------|------------------|------------------|---|---|---|---|---|---|---|-----|
| 220    | 3000             | 1 55             | 58,200  | 18  |   |   |   |   |   |     |
| 235    | 3200             | 1 77             | 72,200  | 25  | 48,800  | 17  |   |   |   |     |
| 250    | 3400             | 2 00             | 82,000  | 33  | 68,800  | 27  |   |   |   |     |
| 264    | 3600             | 2 24             | 91,800  | 41  | 81,600  | 35  | 64,600  | 28  |   |     |
| 279    | 3800             | 2 49             | 99,800  | 50  | 92,200  | 46  | 80,800  | 39  | 59,400  | 29  |
| 294    | 4000             | 2 76             | 108,000   | 62  | 101,000   | 56  | 93,600  | 50  | 79,400  | 42  |
| 309    | 4200             | 3 01             | 115,000   | 72  | 110,000   | 68  | 104,000   | 62  | 93,000  | 54  |
| 323    | 4400             | 3 34             | 122,000   | 86  | 118,000   | 82  | 112,000   | 76  | 104,000   | 68  |
| 338    | 4600             | 3 65             | 129,000   | 98  | 125,000   | 94  | 120,000   | 90  | 114,000   | 82  |
| 353    | 4800             | 3 98             | 136,000   | 110   | 132,000   | 110   | 128,000   | 105   | 123,000   | 98  |
| 368    | 5000             | 4 31             | 143,000   | 130   | 139,000   | 130   | 135,000   | 120   | 131,000   | 115 |
| 386    | 5250             | 4 76             | 151,000   | 150   | 148,000   | 150   | 144,000   | 145   | 141,000   | 140 |
| 404    | 5500             | 5 22             | 159,000   | 175   | 156,000   | 170   | 154,000   | 170   | 150,000   | 160 |
| 423    | 5750             | 5 71             | 167,000   | 200   | 165,000   | 200   | 162,000   | 195   | 159,000   | 190 |
| 441    | 6000             | 6 21             | 175,000   | 230   | 173,000   | 230   | 171,000   | 220   | 168,000   | 220 |
| 459    | 6250             | 6 74             | 184,000   | 260   | 182,000   | 260   | 179,000   | 250   | 177,000   | 250 |
| 478    | 6500             | 7 29             |   |   | 189,000   | 290   | 187,000   | 290   | 185,000   | 280 |
| 496    | 6750             | 7 86             |   |   | 198,000   | 330   | 195,000   | 320   | 193,000   | 320 |
| 514    | 7000             | 8 45             |   |   | 206,000   | 360   | 204,000   | 360   | 202,000   | 360 |
| 531    | 7500             | 9 71             |   |   |   |   | 220,000   | 450   | 218,000   | 440 |
| 558    | 8000             | 11 04            |   |   |   |   |   |   | 234,000   | 540 |
| 625    | 8500             | 12 48            |   |   |   |   |   |   | 250,000   | 650 |
| 661    | 9000             | 14 00            |   |   |   |   |   |   |   |     |
| 698    | 9500             | 15 58            |   |   |   |   |   |   | 264,000   | 770 |
| 734    | 10000            | 17 27            |   |   |   |   |   |   |   |     |

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 3 1/4" Water 2.02 ozs. per sq. inch | Static Pressure 4" Water 2.31 ozs. per sq. inch | Static Pressure 5" Water 2.89 ozs. per sq. inch | Static Pressure 6" Water 3.47 ozs. per sq. inch | Static Pressure 7" Water 4.05 ozs. per sq. inch | Static Pressure 8" Water 4.63 ozs. per sq. inch | Static Pressure 9" Water 5.2 ozs. per sq. inch |     |
|--------|------------------|------------------|---|---|---|---|---|---|--|-----|
| 404    | 5500             | 5 22             | 98,800  | 100   |   |   |   |   |  |     |
| 423    | 5750             | 5 71             | 120,000   | 130   | 91,600  | 105   |   |   |  |     |
| 441    | 6000             | 6 21             | 135,000   | 165   | 116,000   | 140   |   |   |  |     |
| 459    | 6250             | 6 74             | 149,000   | 195   | 135,000   | 175   |   |   |  |     |
| 478    | 6500             | 7 29             | 161,000   | 230   | 150,000   | 210   | 110,000   | 155   |  |     |
| 496    | 6750             | 7 86             | 172,000   | 270   | 163,000   | 250   | 133,000   | 200   |  |     |
| 514    | 7000             | 8 45             | 182,000   | 310   | 175,000   | 300   | 151,000   | 250   |  |     |
| 531    | 7500             | 9 71             | 202,000   | 400   | 196,000   | 390   | 180,000   | 340   |  |     |
| 558    | 8000             | 11 04            | 220,000   | 510   | 216,000   | 490   | 202,000   | 450   |  |     |
| 625    | 8500             | 12 48            | 238,000   | 620   | 234,000   | 610   | 224,000   | 570   |  |     |
| 661    | 9000             | 14 00            | 254,000   | 750   | 252,000   | 730   | 242,000   | 700   | 232,000  | 660 |
| 698    | 9500             | 15 58            | 272,000   | 890   | 270,000   | 880   | 262,000   | 850   | 252,000  | 810 |
| 734    | 10000            | 17 27            | 288,000   | 1050  | 286,000   | 1030  | 280,000   | 1010  | 272,000  | 970 |

Double Inlet

## Size "M" Supervane Fan—Design 1

Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.                                      | H. P. | Volume C.F.M.                                     | H. P. | Volume C.F.M.                                     | H. P. | Volume C.F.M.                                   | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P.   | Volume C.F.M.                                       | H. P.   |     |
|--------|------------------|------------------|--|-------|---|-------|---|-------|---|-------|---|-------|---|---------|---|---------|-----|
|        |                  |                  | Static Pressure 1/2" Water .0722 ozs. per sq. inch |       | Static Pressure 1/2" Water .145 ozs. per sq. inch |       | Static Pressure 3/4" Water .217 ozs. per sq. inch |       | Static Pressure 1" Water .289 ozs. per sq. inch |       | Static Pressure 1 1/4" Water .361 ozs. per sq. inch |       | Static Pressure 1 1/2" Water .438 ozs. per sq. inch |         | Static Pressure 1 3/4" Water .506 ozs. per sq. inch |         |     |
| 66     | 1010             | 0 176            | 18,900   | 0 65  |   |       |   |       |   |       |   |       |   |         |   |         |     |
| 79     | 1200             | 0 249            | 36,000   | 1 8   |   |       |   |       |   |       |   |       |   |         |   |         |     |
| 92     | 1400             | 0 338            | 46,000   | 3 2   |   |       |   |       |   |       |   |       |   |         |   |         |     |
| 105    | 1600             | 0 441            | 55,000   | 5 1   | 49,000  | 3 9   |   |       |   |       |   |       |   |         |   |         |     |
| 118    | 1800             | 0 559            | 64,200   | 7 5   | 57,200  | 6 4   | 40,200  | 4 4   |   |       |   |       |   |         |   |         |     |
| 132    | 2000             | 0 690            | 71,800   | 10 5  | 67,000  | 9 5   | 57,600  | 7 8   |   |       |   |       |   |         |   |         |     |
| 145    | 2200             | 0 835            | 80,600   | 14    | 76,000  | 13 0  | 69,800  | 12 0  | 58,600  | 9 3   |   |       |   |         |   |         |     |
| 158    | 2400             | 0 991            |  |       | 84,800  | 17 5  | 79,600  | 16 5  | 72,400  | 14 5  | 58,600  | 11 5  |   |         |   |         |     |
| 171    | 2600             | 1 17             |  |       | 93,800  | 23    | 89,000  | 22    | 83,400  | 20    | 75,800  | 17    | 63,000  | 14      |   |         |     |
| 184    | 2800             | 1 35             |  |       | 101,000   | 29    | 97,000  | 27    | 93,200  | 26    | 87,600  | 24    | 79,800  | 21      | 67,000  | 17 5    |     |
| 197    | 3000             | 1 55             |  |       | 109,000   | 36    | 106,000   | 35    | 103,000   | 33    | 98,200  | 31    | 92,200  | 29      | 84,400  | 25      |     |
| 210    | 3200             | 1 77             |  |       | 117,000   | 43    | 115,000   | 43    | 111,000   | 41    | 108,000   | 39    | 103,000   | 37      | 97,200  | 34      |     |
| 224    | 3400             | 2 00             |  |       |   |       | 123,000   | 50    | 120,000   | 50    | 117,000   | 49    | 113,000   | 46      | 109,000   | 44      |     |
| 237    | 3600             | 2 24             |  |       |   |       | 131,000   | 62    | 128,000   | 60    | 126,000   | 58    | 122,000   | 56      | 118,000   | 54      |     |
| 250    | 3800             | 2 49             |  |       |   |       | 139,000   | 72    | 137,000   | 72    | 134,000   | 70    | 131,000   | 68      | 128,000   | 66      |     |
| 263    | 4000             | 2 76             |  |       |   |       |   |       | 145,000   | 81    | 142,000   | 82    | 140,000   | 80      | 137,000   | 78      |     |
| 276    | 4200             | 3 04             |  |       |   |       |   |       | 153,000   | 98    | 151,000   | 96    | 148,000   | 94      | 146,000   | 94      |     |
| 290    | 4400             | 3 31             |  |       |   |       |   |       | 161,000   | 110   | 159,000   | 110   | 157,000   | 110     | 155,000   | 110     |     |
| 303    | 4600             | 3 65             |  |       |   |       |   |       |   |       | 167,000   | 130   | 165,000   | 130     | 163,000   | 125     |     |
| 316    | 4800             | 3 98             |  |       |   |       |   |       |   |       | 175,000   | 145   | 173,000   | 145     | 171,000   | 145     |     |
| 329    | 5000             | 4 31             |  |       |   |       |   |       |   |       | 183,000   | 165   | 182,000   | 165     | 180,000   | 165     |     |
| 345    | 5250             | 4 76             |  |       |   |       |   |       |   |       |   |       | 191,000   | 190     | 190,000   | 190     |     |
| 362    | 5500             | 5 22             |  |       |   |       |   |       |   |       |   |       | 202,000   | 220     | 200,000   | 220     |     |
| 378    | 5750             | 5 71             |  |       |   |       |   |       |   |       |   |       |   | 210,000 | 250   | 210,000 | 250 |

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 ozs. per sq. inch | Static Pressure 1 1/4" Water .723 ozs. per sq. inch | Static Pressure 1 1/2" Water .878 ozs. per sq. inch | Static Pressure 1 3/4" Water 1.01 ozs. per sq. inch | Static Pressure 2" Water 1.16 ozs. per sq. inch | Static Pressure 2 1/4" Water 1.45 ozs. per sq. inch | Static Pressure 2 1/2" Water 1.73 ozs. per sq. inch |     |
|--------|------------------|------------------|---|---|---|---|---|---|---|-----|
| 197    | 3000             | 1 55             | 72,400  | 22  |   |   |   |   |   |     |
| 210    | 3200             | 1 77             | 90,000  | 31  | 60,600  | 21  |   |   |   |     |
| 224    | 3400             | 2 00             | 103,000   | 41  | 85,800  | 33  |   |   |   |     |
| 237    | 3600             | 2 24             | 111,000   | 52  | 102,000   | 44  | 80,400  | 35  |   |     |
| 250    | 3800             | 2 49             | 124,000   | 64  | 115,000   | 56  | 101,000   | 49  | 74,000  | 36  |
| 263    | 4000             | 2 76             | 131,000   | 76  | 126,000   | 70  | 117,000   | 62  | 98,800  | 52  |
| 276    | 4200             | 3 04             | 143,000   | 90  | 137,000   | 84  | 129,000   | 78  | 116,000   | 68  |
| 290    | 4400             | 3 31             | 152,000   | 110   | 147,000   | 100   | 140,000   | 94  | 130,000   | 86  |
| 303    | 4600             | 3 65             | 161,000   | 125   | 156,000   | 115   | 150,000   | 110   | 142,000   | 105 |
| 316    | 4800             | 3 98             | 170,000   | 140   | 165,000   | 135   | 159,000   | 130   | 163,000   | 125 |
| 329    | 5000             | 4 31             | 178,000   | 160   | 174,000   | 155   | 169,000   | 150   | 163,000   | 145 |
| 345    | 5250             | 4 76             | 188,000   | 190   | 184,000   | 190   | 180,000   | 175   | 175,000   | 170 |
| 362    | 5500             | 5 22             | 198,000   | 220   | 195,000   | 210   | 191,000   | 210   | 187,000   | 200 |
| 378    | 5750             | 5 71             | 208,000   | 250   | 206,000   | 250   | 202,000   | 240   | 198,000   | 240 |
| 395    | 6000             | 6 21             | 218,000   | 280   | 216,000   | 280   | 212,000   | 280   | 210,000   | 270 |
| 411    | 6250             | 6 74             | 228,000   | 320   | 226,000   | 320   | 222,000   | 320   | 220,000   | 310 |
| 428    | 6500             | 7 29             |   |   | 236,000   | 360   | 234,000   | 360   | 230,000   | 350 |
| 444    | 6750             | 7 86             |   |   | 246,000   | 410   | 244,000   | 400   | 240,000   | 400 |
| 460    | 7000             | 8 45             |   |   | 256,000   | 450   | 254,000   | 450   | 252,000   | 450 |
| 494    | 7500             | 9 71             |   |   |   |   | 271,000   | 560   | 272,000   | 550 |
| 526    | 8000             | 11 04            |   |   |   |   |   |   | 292,000   | 680 |
| 560    | 8500             | 12 48            |   |   |   |   |   |   | 312,000   | 810 |
| 592    | 9000             | 14 00            |   |   |   |   |   |   |   |     |
| 625    | 9500             | 15 58            |   |   |   |   |   |   | 330,000   | 960 |
| 659    | 10000            | 17 27            |   |   |   |   |   |   |   |     |

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 3 1/2" Water 2.02 ozs. per sq. inch | Static Pressure 4" Water 2.31 ozs. per sq. inch | Static Pressure 5" Water 2.89 ozs. per sq. inch | Static Pressure 6" Water 3.47 ozs. per sq. inch | Static Pressure 7" Water 4.05 ozs. per sq. inch | Static Pressure 8" Water 4.63 ozs. per sq. inch | Static Pressure 9" Water 5.2 ozs. per sq. inch |      |
|--------|------------------|------------------|---|---|---|---|---|---|--|------|
| 362    | 5500             | 5 22             | 123,000   | 125   |   |   |   |   |  |      |
| 378    | 5750             | 5 71             | 149,000   | 165   | 114,000   | 130   |   |   |  |      |
| 395    | 6000             | 6 21             | 169,000   | 200   | 145,000   | 175   |   |   |  |      |
| 411    | 6250             | 6 74             | 186,000   | 250   | 168,000   | 220   |   |   |  |      |
| 428    | 6500             | 7 29             | 200,000   | 290   | 186,000   | 260   | 137,000   | 195   |  |      |
| 444    | 6750             | 7 86             | 214,000   | 340   | 202,000   | 320   | 196,000   | 250   |  |      |
| 460    | 7000             | 8 45             | 228,000   | 390   | 218,000   | 370   | 188,000   | 310   |  |      |
| 494    | 7500             | 9 71             | 252,000   | 500   | 244,000   | 480   | 221,000   | 430   |  |      |
| 526    | 8000             | 11 04            | 274,000   | 630   | 268,000   | 610   | 252,000   | 560   |  |      |
| 560    | 8500             | 12 48            | 296,000   | 770   | 292,000   | 760   | 278,000   | 710   |  |      |
| 592    | 9000             | 14 00            | 318,000   | 930   | 314,000   | 910   | 302,000   | 870   |  |      |
| 625    | 9500             | 15 58            | 338,000   | 1110  | 336,000   | 1090  | 326,000   | 1050  |  |      |
| 659    | 10000            | 17 27            | 360,000   | 1300  | 356,000   | 1290  | 348,000   | 1260  |  |      |
|        |                  |                  |   |   |   |   |   |   | 288,000  | 820  |
|        |                  |                  |   |   |   |   |   |   | 314,000  | 1000 |
|        |                  |                  |   |   |   |   |   |   | 338,000  | 1210 |
|        |                  |                  |   |   |   |   |   |   | 326,000  | 1150 |
|        |                  |                  |   |   |   |   |   |   | 240,000  | 580  |
|        |                  |                  |   |   |   |   |   |   | 200,000  | 500  |
|        |                  |                  |   |   |   |   |   |   | 250,000  | 670  |
|        |                  |                  |   |   |   |   |   |   | 284,000  | 870  |
|        |                  |                  |   |   |   |   |   |   | 314,000  | 1090 |
|        |                  |                  |   |   |   |   |   |   | 296,000  | 1010 |

# Double Inlet Size "N" Supervane Fan—Design 1 Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.                                      | H. P. | Volume C.F.M.                                     | H. P. | Volume C.F.M.                                     | H. P. | Volume C.F.M.                                     | H. P. | Volume C.F.M.                                     | H. P. | Volume C.F.M.                                     | H. P. | Volume C.F.M.                                     | H. P. |
|--------|------------------|------------------|--|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|
|        |                  |                  | Static Pressure 1/2" Water .0722 ozs. per sq. inch |       | Static Pressure 1/2" Water .145 ozs. per sq. inch |       | Static Pressure 3/8" Water .217 ozs. per sq. inch |       | Static Pressure 1/2" Water .289 ozs. per sq. inch |       | Static Pressure 3/8" Water .361 ozs. per sq. inch |       | Static Pressure 1/2" Water .434 ozs. per sq. inch |       | Static Pressure 3/8" Water .506 ozs. per sq. inch |       |
| 60     | 1010             | 0 176            | 23,000   | 0 8   |   |       |   |       |   |       |   |       |   |       |   |       |
| 72     | 1200             | 0 219            | 41,000   | 2 2   |   |       |   |       |   |       |   |       |   |       |   |       |
| 84     | 1400             | 0 338            | 56,600   | 3 9   |   |       |   |       |   |       |   |       |   |       |   |       |
| 95     | 1600             | 0 441            | 66,800   | 6 2   | 54,600  | 4 7   |   |       |   |       |   |       |   |       |   |       |
| 107    | 1800             | 0 559            | 78,000   | 9 2   | 69,400  | 7 8   | 49,000  | 5 3   |   |       |   |       |   |       |   |       |
| 119    | 2000             | 0 690            | 87,200   | 12 5  | 81,400  | 11 5  | 70,000  | 9 1   |   |       |   |       |   |       |   |       |
| 131    | 2200             | 0 835            | 98,000   | 17    | 92,400  | 16    | 85,000  | 14    | 71,200  | 11 5  |   |       |   |       |   |       |
| 143    | 2400             | 0 991            |  |       | 103,000   | 21    | 96,800  | 20    | 88,200  | 17 5  | 71,200  | 14    |   |       |   |       |
| 155    | 2600             | 1 17             |  |       | 114,000   | 28    | 108,000   | 26    | 101,000   | 24    | 92,000  | 21    | 76,400  | 17 5  |   |       |
| 167    | 2800             | 1 35             |  |       | 123,000   | 35    | 118,000   | 33    | 114,000   | 31    | 107,000   | 29    | 97,000  | 25    | 81,400  | 21    |
| 179    | 3000             | 1 55             |  |       | 133,000   | 44    | 129,000   | 42    | 125,000   | 40    | 119,000   | 38    | 112,000   | 35    | 103,000   | 31    |
| 191    | 3200             | 1 77             |  |       | 142,000   | 52    | 139,000   | 50    | 135,000   | 50    | 131,000   | 48    | 125,000   | 45    | 118,000   | 42    |
| 203    | 3400             | 2 00             |  |       |   |       | 119,000   | 62    | 116,000   | 62    | 112,000   | 60    | 107,000   | 56    | 103,000   | 54    |
| 215    | 3600             | 2 24             |  |       |   |       | 129,000   | 74    | 125,000   | 74    | 121,000   | 72    | 116,000   | 70    | 111,000   | 70    |
| 227    | 3800             | 2 49             |  |       |   |       | 139,000   | 88    | 135,000   | 86    | 131,000   | 86    | 125,000   | 82    | 115,000   | 80    |
| 239    | 4000             | 2 76             |  |       |   |       |   |       | 176,000   | 105   | 173,000   | 100   | 170,000   | 98    | 167,000   | 96    |
| 251    | 4200             | 3 04             |  |       |   |       |   |       | 186,000   | 120   | 183,000   | 115   | 181,000   | 115   | 178,000   | 110   |
| 263    | 4400             | 3 34             |  |       |   |       |   |       | 196,000   | 135   | 193,000   | 135   | 191,000   | 130   | 188,000   | 130   |
| 274    | 4600             | 3 65             |  |       |   |       |   |       |   |       | 204,000   | 155   | 200,000   | 150   | 198,000   | 150   |
| 286    | 4800             | 3 98             |  |       |   |       |   |       |   |       | 212,000   | 175   | 210,000   | 175   | 208,000   | 170   |
| 298    | 5000             | 4 31             |  |       |   |       |   |       |   |       | 222,000   | 200   | 220,000   | 200   | 218,000   | 195   |
| 313    | 5250             | 4 76             |  |       |   |       |   |       |   |       |   |       | 232,000   | 230   | 230,000   | 230   |
| 328    | 5500             | 5 22             |  |       |   |       |   |       |   |       |   |       | 244,000   | 270   | 242,000   | 270   |
| 343    | 5750             | 5 71             |  |       |   |       |   |       |   |       |   |       |   |       | 256,000   | 310   |

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 ozs. per sq. inch | Static Pressure 1 1/4" Water .723 ozs. per sq. inch | Static Pressure 1 1/2" Water .878 ozs. per sq. inch | Static Pressure 1 3/4" Water 1.01 ozs. per sq. inch | Static Pressure 2" Water 1.16 ozs. per sq. inch | Static Pressure 2 1/2" Water 1.45 ozs. per sq. inch | Static Pressure 3" Water 1.73 ozs. per sq. inch |      |
|--------|------------------|------------------|---|---|---|---|---|---|---|------|
| 179    | 3000             | 1 55             | 88,000  | 27  |   |   |   |   |   |      |
| 191    | 3200             | 1 77             | 109,000   | 37  | 73,800  | 26  |   |   |   |      |
| 203    | 3400             | 2 00             | 125,000   | 50  | 104,000   | 40  |   |   |   |      |
| 215    | 3600             | 2 24             | 139,000   | 62  | 124,000   | 54  | 118,000   | 43  |   |      |
| 227    | 3800             | 2 49             | 151,000   | 76  | 140,000   | 70  | 122,000   | 60  | 90,000  | 44   |
| 239    | 4000             | 2 76             | 163,000   | 92  | 153,000   | 86  | 142,000   | 76  | 120,000   | 64   |
| 251    | 4200             | 3 04             | 174,000   | 110   | 166,000   | 105   | 157,000   | 94  | 141,000   | 82   |
| 263    | 4400             | 3 34             | 185,000   | 130   | 178,000   | 125   | 170,000   | 115   | 158,000   | 105  |
| 274    | 4600             | 3 65             | 196,000   | 150   | 189,000   | 145   | 182,000   | 135   | 173,000   | 130  |
| 286    | 4800             | 3 98             | 206,000   | 170   | 200,000   | 165   | 193,000   | 155   | 186,000   | 150  |
| 298    | 5000             | 4 31             | 216,000   | 195   | 212,000   | 190   | 206,000   | 185   | 198,000   | 175  |
| 313    | 5250             | 4 76             | 228,000   | 230   | 224,000   | 230   | 218,000   | 220   | 214,000   | 210  |
| 328    | 5500             | 5 22             | 240,000   | 260   | 236,000   | 260   | 232,000   | 250   | 228,000   | 250  |
| 343    | 5750             | 5 71             | 254,000   | 300   | 250,000   | 300   | 246,000   | 290   | 240,000   | 290  |
| 358    | 6000             | 6 21             | 266,000   | 340   | 262,000   | 340   | 258,000   | 340   | 254,000   | 330  |
| 373    | 6250             | 6 74             | 278,000   | 390   | 274,000   | 390   | 270,000   | 380   | 268,000   | 380  |
| 388    | 6500             | 7 29             |   |   | 286,000   | 440   | 282,000   | 440   | 280,000   | 430  |
| 403    | 6750             | 7 86             |   |   | 300,000   | 490   | 296,000   | 490   | 292,000   | 480  |
| 418    | 7000             | 8 45             |   |   | 310,000   | 550   | 308,000   | 550   | 306,000   | 540  |
| 448    | 7500             | 9 71             |   |   |   |   | 332,000   | 680   | 330,000   | 670  |
| 477    | 8000             | 11 04            |   |   |   |   |   |   | 354,000   | 820  |
| 507    | 8500             | 12 48            |   |   |   |   |   |   | 380,000   | 980  |
| 536    | 9000             | 14 00            |   |   |   |   |   |   |   |      |
| 567    | 9500             | 15 58            |   |   |   |   |   |   | 400,000   | 1190 |
| 596    | 10000            | 17 27            |   |   |   |   |   |   |   |      |

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 3 1/2" Water 2.02 ozs. per sq. inch | Static Pressure 4" Water 2.31 ozs. per sq. inch | Static Pressure 5" Water 2.89 ozs. per sq. inch | Static Pressure 6" Water 3.47 ozs. per sq. inch | Static Pressure 7" Water 4.05 ozs. per sq. inch | Static Pressure 8" Water 4.63 ozs. per sq. inch | Static Pressure 9" Water 5.2 ozs. per sq. inch |      |
|--------|------------------|------------------|---|---|---|---|---|---|--|------|
| 328    | 5500             | 5 22             | 150,000   | 150   |   |   |   |   |  |      |
| 343    | 5750             | 5 71             | 181,000   | 210   | 138,000   | 155   |   |   |  |      |
| 358    | 6000             | 6 21             | 206,000   | 250   | 176,000   | 210   |   |   |  |      |
| 373    | 6250             | 6 74             | 226,000   | 300   | 201,000   | 270   |   |   |  |      |
| 388    | 6500             | 7 29             | 244,000   | 360   | 226,000   | 320   | 166,000   | 210   |  |      |
| 403    | 6750             | 7 86             | 260,000   | 410   | 246,000   | 380   | 202,000   | 310   |  |      |
| 418    | 7000             | 8 45             | 276,000   | 480   | 264,000   | 450   | 230,000   | 370   | 159,000  | 260  |
| 448    | 7500             | 9 71             | 306,000   | 610   | 296,000   | 590   | 272,000   | 520   | 234,000  | 420  |
| 477    | 8000             | 11 04            | 334,000   | 770   | 326,000   | 740   | 306,000   | 680   | 280,000  | 600  |
| 507    | 8500             | 12 48            | 360,000   | 940   | 354,000   | 920   | 338,000   | 860   | 318,000  | 800  |
| 536    | 9000             | 14 00            | 396,000   | 1180  | 392,000   | 1110  | 368,000   | 1060  | 350,000  | 1000 |
| 567    | 9500             | 15 58            | 412,000   | 1350  | 408,000   | 1330  | 396,000   | 1280  | 382,000  | 1220 |
| 596    | 10000            | 17 27            | 436,000   | 1580  | 434,000   | 1570  | 422,000   | 1530  | 410,000  | 1470 |

Double Inlet

## Size "P" Supervane Fan—Design 1

Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M. H. P. Static Pressure 1/2" Water .0722 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1/4" Water .145 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 3/8" Water .217 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1/2" Water .289 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 5/8" Water .361 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 3/4" Water .434 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 7/8" Water .506 ozs. per sq. inch |
|--------|------------------|------------------|--|---|---|---|---|---|---|
| 55     | 1010             | 0.176            | 27,000   | 1 0   |   |   |   |   |   |
| 65     | 1200             | 0.249            | 52,800   | 2.6   |   |   |   |   |   |
| 76     | 1400             | 0.338            | 68,000   | 4.7   |   |   |   |   |   |
| 87     | 1600             | 0.441            | 80,200   | 7.4   | 65,400  | 5.6   |   |   |   |
| 98     | 1800             | 0.559            | 93,600   | 11  | 83,200  | 9.4   | 78,600  | 6.4   |   |
| 109    | 2000             | 0.690            | 105,000  | 15  | 97,600  | 14  | 81,000  | 11.5  |   |
| 120    | 2200             | 0.835            | 117,000  | 21  | 111,000   | 19  | 102,000   | 17  | 85,400  |
| 131    | 2400             | 0.994            |  |   | 124,000   | 26  | 116,000   | 24  | 106,000   |
| 142    | 2600             | 1.17             |  |   | 137,000   | 33  | 130,000   | 32  | 122,000   |
| 153    | 2800             | 1.35             |  |   | 148,000   | 42  | 141,000   | 40  | 136,000   |
| 164    | 3000             | 1.55             |  |   | 160,000   | 52  | 155,000   | 50  | 150,000   |
| 174    | 3200             | 1.77             |  |   | 171,000   | 62  | 167,000   | 62  | 162,000   |
| 185    | 3400             | 2.00             |  |   | 179,000   | 76  | 175,000   | 74  | 170,000   |
| 196    | 3600             | 2.24             |  |   | 191,000   | 90  | 187,000   | 88  | 183,000   |
| 207    | 3800             | 2.49             |  |   | 202,000   | 105   | 199,000   | 105   | 195,000   |
| 218    | 4000             | 2.76             |  |   |   |   | 212,000   | 125   | 208,000   |
| 229    | 4200             | 3.04             |  |   |   |   | 222,000   | 145   | 220,000   |
| 240    | 4400             | 3.34             |  |   |   |   | 234,000   | 165   | 232,000   |
| 251    | 4600             | 3.65             |  |   |   |   |   |   | 244,000   |
| 262    | 4800             | 3.98             |  |   |   |   |   |   | 254,000   |
| 273    | 5000             | 4.31             |  |   |   |   |   |   | 266,000   |
| 286    | 5250             | 4.76             |  |   |   |   |   |   | 280,000   |
| 300    | 5500             | 5.22             |  |   |   |   |   |   | 294,000   |
| 314    | 5750             | 5.71             |  |   |   |   |   |   |   |
| 164    | 3000             | 1.55             | 106,000  | 32  |   |   |   |   |   |
| 174    | 3200             | 1.77             | 131,000  | 45  | 88,400  | 31  |   |   |   |
| 185    | 3400             | 2.00             | 150,000  | 60  | 125,000   | 48  |   |   |   |
| 196    | 3600             | 2.24             | 167,000  | 76  | 148,000   | 64  | 117,000   | 52  |   |
| 207    | 3800             | 2.49             | 181,000  | 92  | 168,000   | 82  | 147,000   | 70  |   |
| 218    | 4000             | 2.76             | 195,000  | 110   | 184,000   | 105   | 170,000   | 92  | 108,000   |
| 229    | 4200             | 3.04             | 208,000  | 130   | 199,000   | 125   | 188,000   | 110   | 189,000   |
| 240    | 4400             | 3.34             | 222,000  | 155   | 214,000   | 150   | 204,000   | 135   | 189,000   |
| 251    | 4600             | 3.65             | 236,000  | 180   | 228,000   | 170   | 218,000   | 165   | 208,000   |
| 262    | 4800             | 3.98             | 248,000  | 210   | 240,000   | 200   | 232,000   | 190   | 224,000   |
| 273    | 5000             | 4.31             | 260,000  | 240   | 254,000   | 230   | 246,000   | 220   | 238,000   |
| 286    | 5250             | 4.76             | 271,000  | 270   | 270,000   | 270   | 262,000   | 260   | 256,000   |
| 300    | 5500             | 5.22             | 290,000  | 320   | 284,000   | 310   | 280,000   | 310   | 272,000   |
| 314    | 5750             | 5.71             | 304,000  | 360   | 300,000   | 360   | 296,000   | 350   | 288,000   |
| 327    | 6000             | 6.21             | 318,000  | 410   | 314,000   | 410   | 310,000   | 400   | 306,000   |
| 341    | 6250             | 6.74             | 334,000  | 470   | 330,000   | 470   | 328,000   | 460   | 320,000   |
| 354    | 6500             | 7.29             |  |   | 344,000   | 530   | 340,000   | 520   | 336,000   |
| 368    | 6750             | 7.86             |  |   | 358,000   | 590   | 356,000   | 580   | 350,000   |
| 382    | 7000             | 8.45             |  |   | 372,000   | 660   | 370,000   | 650   | 366,000   |
| 409    | 7500             | 9.71             |  |   |   |   | 398,000   | 810   | 396,000   |
| 436    | 8000             | 11.01            |  |   |   |   |   |   | 426,000   |
| 464    | 8500             | 12.48            |  |   |   |   |   |   | 454,000   |
| 490    | 9000             | 14.00            |  |   |   |   |   |   |   |
| 518    | 9500             | 15.58            |  |   |   |   |   |   |   |
| 545    | 10000            | 17.27            |  |   |   |   |   |   |   |
| 300    | 5500             | 5.22             | 170,000  | 185   |   |   |   |   |   |
| 314    | 5750             | 5.71             | 218,000  | 240   | 166,000   | 190   |   |   |   |
| 327    | 6000             | 6.21             | 246,000  | 300   | 212,000   | 260   |   |   |   |
| 341    | 6250             | 6.74             | 270,000  | 360   | 244,000   | 320   |   |   |   |
| 354    | 6500             | 7.29             | 292,000  | 420   | 272,000   | 380   | 199,000   | 280   |   |
| 367    | 6750             | 7.86             | 312,000  | 500   | 296,000   | 460   | 212,000   | 370   |   |
| 382    | 7000             | 8.45             | 332,000  | 570   | 318,000   | 540   | 274,000   | 450   | 191,000   |
| 409    | 7500             | 9.71             | 366,000  | 710   | 356,000   | 700   | 326,000   | 630   | 280,000   |
| 436    | 8000             | 11.01            | 400,000  | 920   | 390,000   | 890   | 368,000   | 820   | 336,000   |
| 464    | 8500             | 12.48            | 432,000  | 1130  | 424,000   | 1100  | 406,000   | 1030  | 382,000   |
| 490    | 9000             | 14.00            | 462,000  | 1360  | 456,000   | 1330  | 440,000   | 1270  | 420,000   |
| 518    | 9500             | 15.58            | 494,000  | 1620  | 488,000   | 1590  | 474,000   | 1460  | 456,000   |
| 545    | 10000            | 17.27            | 524,000  | 1900  | 520,000   | 1880  | 506,000   | 1830  | 492,000   |
| 300    | 5500             | 5.22             | 170,000  | 185   |   |   |   |   |   |
| 314    | 5750             | 5.71             | 218,000  | 240   | 166,000   | 190   |   |   |   |
| 327    | 6000             | 6.21             | 246,000  | 300   | 212,000   | 260   |   |   |   |
| 341    | 6250             | 6.74             | 270,000  | 360   | 244,000   | 320   |   |   |   |
| 354    | 6500             | 7.29             | 292,000  | 420   | 272,000   | 380   | 199,000   | 280   |   |
| 367    | 6750             | 7.86             | 312,000  | 500   | 296,000   | 460   | 212,000   | 370   |   |
| 382    | 7000             | 8.45             | 332,000  | 570   | 318,000   | 540   | 274,000   | 450   | 191,000   |
| 409    | 7500             | 9.71             | 366,000  | 710   | 356,000   | 700   | 326,000   | 630   | 280,000   |
| 436    | 8000             | 11.01            | 400,000  | 920   | 390,000   | 890   | 368,000   | 820   | 336,000   |
| 464    | 8500             | 12.48            | 432,000  | 1130  | 424,000   | 1100  | 406,000   | 1030  | 382,000   |
| 490    | 9000             | 14.00            | 462,000  | 1360  | 456,000   | 1330  | 440,000   | 1270  | 420,000   |
| 518    | 9500             | 15.58            | 494,000  | 1620  | 488,000   | 1590  | 474,000   | 1460  | 456,000   |
| 545    | 10000            | 17.27            | 524,000  | 1900  | 520,000   | 1880  | 506,000   | 1830  | 492,000   |



# Double Inlet Size "Q" Supervane Fan—Design 1 Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M. Static Pressure 1/2" Water .0722 oza. per sq. inch | H. P. | Volume C.F.M. Static Pressure 3/4" Water .145 oza. per sq. inch | H. P. | Volume C.F.M. Static Pressure 1" Water .217 oza. per sq. inch | H. P. | Volume C.F.M. Static Pressure 1 1/4" Water .289 oza. per sq. inch | H. P. | Volume C.F.M. Static Pressure 1 1/2" Water .361 oza. per sq. inch | H. P. | Volume C.F.M. Static Pressure 1 3/4" Water .434 oza. per sq. inch | H. P.   | Volume C.F.M. Static Pressure 2" Water .506 oza. per sq. inch | H. P.   |     |
|--------|------------------|------------------|--|-------|---|-------|---|-------|---|-------|---|-------|---|---------|---|---------|-----|
| 51     | 1010             | 0 176            | 32,100   | 1 1   |   |       |   |       |   |       |   |       |   |         |   |         |     |
| 60     | 1200             | 0 219            | 62,200   | 3 1   |   |       |   |       |   |       |   |       |   |         |   |         |     |
| 70     | 1400             | 0 338            | 80,000   | 5 5   |   |       |   |       |   |       |   |       |   |         |   |         |     |
| 80     | 1600             | 0 441            | 91,400   | 8 8   | 77,200  | 6 6   |   |       |   |       |   |       |   |         |   |         |     |
| 90     | 1800             | 0 559            | 110,000  | 13    | 98,000  | 11 0  | 69,200  | 7 5   |   |       |   |       |   |         |   |         |     |
| 100    | 2000             | 0 690            | 123,000  | 18    | 115,000   | 16 5  | 99,000  | 13 5  |   |       |   |       |   |         |   |         |     |
| 111    | 2200             | 0 8 5            | 138,000  | 24    | 131,000   | 23    | 120,000   | 20    | 101,000   | 16    |   |       |   |         |   |         |     |
| 121    | 2400             | 0 994            |  |       | 146,000   | 30    | 137,000   | 28    | 125,000   | 25    | 101,000   | 19 5  |   |         |   |         |     |
| 131    | 2600             | 1 17             |  |       | 161,000   | 39    | 153,000   | 37    | 143,000   | 34    | 130,000   | 30    | 108,000   | 25      |   |         |     |
| 141    | 2800             | 1 35             |  |       | 174,000   | 49    | 167,000   | 47    | 160,000   | 44    | 151,000   | 41    | 137,000   | 36      | 115,000   | 30      |     |
| 151    | 3000             | 1 55             |  |       | 188,000   | 62    | 182,000   | 60    | 176,000   | 56    | 168,000   | 54    | 158,000   | 49      | 145,000   | 44      |     |
| 161    | 3200             | 1 77             |  |       | 202,000   | 74    | 197,000   | 74    | 191,000   | 70    | 185,000   | 68    | 177,000   | 64      | 167,000   | 58      |     |
| 171    | 3400             | 2 00             |  |       |   |       | 210,000   | 88    | 206,000   | 86    | 200,000   | 84    | 194,000   | 80      | 187,000   | 76      |     |
| 181    | 3600             | 2 21             |  |       |   |       | 226,000   | 105   | 220,000   | 105   | 216,000   | 100   | 210,000   | 98      | 204,000   | 94      |     |
| 191    | 3800             | 2 49             |  |       |   |       | 238,000   | 125   | 234,000   | 125   | 230,000   | 120   | 226,000   | 115     | 220,000   | 110     |     |
| 201    | 4000             | 2 76             |  |       |   |       |   |       | 248,000   | 145   | 244,000   | 140   | 240,000   | 140     | 236,000   | 135     |     |
| 211    | 4200             | 3 01             |  |       |   |       |   |       | 262,000   | 170   | 260,000   | 165   | 256,000   | 165     | 250,000   | 160     |     |
| 221    | 4400             | 3 31             |  |       |   |       |   |       | 276,000   | 190   | 274,000   | 190   | 270,000   | 190     | 266,000   | 190     |     |
| 231    | 4600             | 3 65             |  |       |   |       |   |       |   |       | 288,000   | 220   | 284,000   | 220     | 280,000   | 220     |     |
| 241    | 4800             | 3 98             |  |       |   |       |   |       |   |       | 300,000   | 250   | 298,000   | 250     | 294,000   | 250     |     |
| 251    | 5000             | 4 31             |  |       |   |       |   |       |   |       | 311,000   | 280   |   | 312,000 | 280   | 308,000 | 280 |
| 264    | 5250             | 4 76             |  |       |   |       |   |       |   |       |   |       | 328,000   | 330     | 326,000   | 330     |     |
| 276    | 5500             | 5 22             |  |       |   |       |   |       |   |       |   |       | 346,000   | 380     | 344,000   | 380     |     |
| 289    | 5750             | 5 71             |  |       |   |       |   |       |   |       |   |       |   | 360,000 | 430   |         |     |

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 oza. per sq. inch | Static Pressure 1 1/4" Water .723 oza. per sq. inch | Static Pressure 1 1/2" Water .878 oza. per sq. inch | Static Pressure 1 3/4" Water 1.01 oza. per sq. inch | Static Pressure 2" Water 1.16 oza. per sq. inch | Static Pressure 2 1/2" Water 1.45 oza. per sq. inch | Static Pressure 3" Water 1.73 oza. per sq. inch |      |         |      |         |      |
|--------|------------------|------------------|---|---|---|---|---|---|---|------|---------|------|---------|------|
| 151    | 3000             | 1 55             | 121,000   | 38  |   |   |   |   |   |      |         |      |         |      |
| 161    | 3200             | 1 77             | 155,000   | 52  | 104,000   | 36  |   |   |   |      |         |      |         |      |
| 171    | 3400             | 2 00             | 177,000   | 70  | 147,000   | 58  |   |   |   |      |         |      |         |      |
| 181    | 3600             | 2 21             | 190,000   | 88  | 175,000   | 76  |   |   |   |      |         |      |         |      |
| 191    | 3800             | 2 49             | 214,000   | 110   | 197,000   | 98  |   |   |   |      |         |      |         |      |
| 201    | 4000             | 2 76             | 230,000   | 130   | 216,000   | 120   |   |   |   |      |         |      |         |      |
| 211    | 4200             | 3 01             | 246,000   | 155   | 234,000   | 145   |   |   |   |      |         |      |         |      |
| 221    | 4400             | 3 31             | 262,000   | 185   | 252,000   | 172   |   |   |   |      |         |      |         |      |
| 231    | 4600             | 3 65             | 276,000   | 210   | 268,000   | 200   |   |   |   |      |         |      |         |      |
| 241    | 4800             | 3 98             | 292,000   | 240   | 282,000   | 230   |   |   |   |      |         |      |         |      |
| 251    | 5000             | 4 31             | 306,000   | 280   | 298,000   | 270   |   |   |   |      |         |      |         |      |
| 264    | 5250             | 4 76             | 324,000   | 320   | 316,000   | 310   |   |   |   |      |         |      |         |      |
| 276    | 5500             | 5 22             | 340,000   | 370   | 334,000   | 370   |   |   |   |      |         |      |         |      |
| 289    | 5750             | 5 71             | 358,000   | 430   | 352,000   | 420   |   |   |   |      |         |      |         |      |
| 302    | 6000             | 6 21             | 376,000   | 490   | 370,000   | 480   |   |   |   |      |         |      |         |      |
| 314    | 6250             | 6 74             | 392,000   | 550   | 388,000   | 550   |   |   |   |      |         |      |         |      |
| 327    | 6500             | 7 29             |   |   | 404,000   | 620   |   |   |   |      |         |      |         |      |
| 339    | 6750             | 7 86             |   |   | 422,000   | 700   |   |   |   |      |         |      |         |      |
| 352    | 7000             | 8 45             |   |   | 440,000   | 780   |   |   |   |      |         |      |         |      |
| 377    | 7500             | 9 71             |   |   | 436,000   | 770   |   |   |   |      |         |      |         |      |
| 402    | 8000             | 11 04            |   |   | 470,000   | 960   |   |   |   |      |         |      |         |      |
| 427    | 8500             | 12 48            |   |   |   |   | 432,000   | 770   | 428,000   | 760  | 416,000 | 730  | 404,000 | 710  |
| 452    | 9000             | 14 00            |   |   |   |   | 466,000   | 950   | 462,000   | 940  | 454,000 | 930  | 444,000 | 900  |
| 478    | 9500             | 15 58            |   |   |   |   | 500,000   | 1160  | 496,000   | 1150 | 490,000 | 1140 | 482,000 | 1110 |
| 503    | 10000            | 17 27            |   |   |   |   | 536,000   | 1400  | 532,000   | 1390 | 526,000 | 1380 | 516,000 | 1360 |

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 3 1/2" Water 2.02 oza. per sq. inch | Static Pressure 4" Water 2.31 oza. per sq. inch | Static Pressure 5" Water 2.89 oza. per sq. inch | Static Pressure 6" Water 3.47 oza. per sq. inch | Static Pressure 7" Water 4.05 oza. per sq. inch | Static Pressure 8" Water 4.63 oza. per sq. inch | Static Pressure 9" Water 5.2 oza. per sq. inch |      |         |      |         |      |         |      |
|--------|------------------|------------------|---|---|---|---|---|---|--|------|---------|------|---------|------|---------|------|
| 276    | 5500             | 5 22             | 212,000   | 220   |   |   |   |   |  |      |         |      |         |      |         |      |
| 289    | 5750             | 5 71             | 256,000   | 280   | 196,000   | 220   |   |   |  |      |         |      |         |      |         |      |
| 302    | 6000             | 6 21             | 290,000   | 350   | 248,000   | 300   |   |   |  |      |         |      |         |      |         |      |
| 314    | 6250             | 6 74             | 320,000   | 420   | 288,000   | 380   |   |   |  |      |         |      |         |      |         |      |
| 327    | 6500             | 7 29             | 341,000   | 500   | 320,000   | 450   |   |   |  |      |         |      |         |      |         |      |
| 339    | 6750             | 7 86             | 368,000   | 580   | 348,000   | 510   |   |   |  |      |         |      |         |      |         |      |
| 352    | 7000             | 8 45             | 390,000   | 670   | 374,000   | 630   | 324,000   | 530   | 224,000  | 370  |         |      |         |      |         |      |
| 377    | 7500             | 9 71             | 432,000   | 870   | 420,000   | 830   | 381,000   | 710   | 330,000  | 600  |         |      |         |      |         |      |
| 402    | 8000             | 11 04            | 472,000   | 1080  | 460,000   | 1050  | 432,000   | 970   | 396,000  | 850  | 340,000 | 730  |         |      |         |      |
| 427    | 8500             | 12 48            | 510,000   | 1330  | 500,000   | 1300  | 478,000   | 1220  | 450,000  | 1120 | 410,000 | 980  | 354,000 | 860  |         |      |
| 452    | 9000             | 14 00            | 544,000   | 1600  | 538,000   | 1570  | 518,000   | 1500  | 494,000  | 1410 | 468,000 | 1310 | 428,000 | 1160 | 374,000 | 1020 |
| 478    | 9500             | 15 58            | 582,000   | 1900  | 576,000   | 1880  | 560,000   | 1810  | 538,000  | 1720 | 516,000 | 1620 | 486,000 | 1490 | 450,000 | 1360 |
| 503    | 10000            | 17 27            | 616,000   | 2240  | 612,000   | 2220  | 596,000   | 2160  | 580,000  | 2080 | 560,000 | 1980 | 538,000 | 1870 | 508,000 | 1730 |

Double Inlet

## Size "R" Supervane Fan—Design 1

Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                   | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                   | H. P. |
|--------|------------------|------------------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|
|        |                  |                  | Static Pressure 1/2" Water .0722 ozs. per sq. inch  |       | Static Pressure 1/2" Water .145 ozs. per sq. inch   |       | Static Pressure 3/4" Water .217 ozs. per sq. inch   |       | Static Pressure 1" Water .289 ozs. per sq. inch |       | Static Pressure 5/8" Water .361 ozs. per sq. inch   |       | Static Pressure 3/4" Water .438 ozs. per sq. inch   |       | Static Pressure 1" Water .506 ozs. per sq. inch |       |
| 46     | 1010             | 0 176            | 39,600  | 1 36  |   |       |   |       |   |       |   |       |   |       |   |       |
| 55     | 1200             | 0 249            | 75,800  | 3 7   |   |       |   |       |   |       |   |       |   |       |   |       |
| 64     | 1400             | 0 338            | 97,600  | 6 7   |   |       |   |       |   |       |   |       |   |       |   |       |
| 73     | 1600             | 0 441            | 115,000   | 10 5  | 94,000  | 8 0   |   |       |   |       |   |       |   |       |   |       |
| 82     | 1800             | 0 559            | 134,000   | 16    | 119,000   | 13 5  | 81,200  | 9 2   |   |       |   |       |   |       |   |       |
| 91     | 2000             | 0 690            | 151,000   | 22    | 140,000   | 20    | 121,000   | 16    |   |       |   |       |   |       |   |       |
| 100    | 2200             | 0 835            | 169,000   | 29    | 159,000   | 28    | 146,000   | 25    | 123,000   | 20    |   |       |   |       |   |       |
| 109    | 2400             | 0 994            |   |       | 178,000   | 37    | 167,000   | 34    | 152,000   | 30    | 123,000   | 24    |   |       |   |       |
| 118    | 2600             | 1 17             |   |       | 197,000   | 48    | 186,000   | 45    | 175,000   | 41    | 159,000   | 36    | 132,000   | 30    |   |       |
| 127    | 2800             | 1 35             |   |       | 212,000   | 60    | 204,000   | 58    | 196,000   | 54    | 184,000   | 50    | 167,000   | 44    | 140,000   | 37    |
| 136    | 3000             | 1 55             |   |       | 230,000   | 74    | 222,000   | 72    | 214,000   | 70    | 206,000   | 66    | 193,000   | 60    | 177,000   | 54    |
| 145    | 3200             | 1 77             |   |       | 246,000   | 90    | 240,000   | 90    | 234,000   | 86    | 226,000   | 82    | 216,000   | 78    | 204,000   | 72    |
| 155    | 3400             | 2 00             |   |       |   |       | 256,000   | 110   | 252,000   | 105   | 244,000   | 100   | 236,000   | 98    | 228,000   | 92    |
| 164    | 3600             | 2 24             |   |       |   |       | 274,000   | 130   | 268,000   | 130   | 264,000   | 125   | 256,000   | 120   | 248,000   | 110   |
| 173    | 3800             | 2 49             |   |       |   |       | 290,000   | 150   | 286,000   | 150   | 280,000   | 150   | 274,000   | 145   | 268,000   | 140   |
| 182    | 4000             | 2 76             |   |       |   |       |   |       | 304,000   | 175   | 298,000   | 170   | 294,000   | 170   | 288,000   | 165   |
| 191    | 4200             | 3 04             |   |       |   |       |   |       | 320,000   | 200   | 316,000   | 200   | 312,000   | 200   | 306,000   | 195   |
| 200    | 4400             | 3 34             |   |       |   |       |   |       | 338,000   | 210   | 334,000   | 230   | 328,000   | 230   | 324,000   | 230   |
| 209    | 4600             | 3 65             |   |       |   |       |   |       |   |       | 350,000   | 270   | 346,000   | 260   | 342,000   | 260   |
| 218    | 4800             | 3 98             |   |       |   |       |   |       |   |       | 366,000   | 310   | 362,000   | 300   | 360,000   | 300   |
| 228    | 5000             | 4 31             |   |       |   |       |   |       |   |       | 384,000   | 350   | 380,000   | 340   | 376,000   | 340   |
| 239    | 5250             | 4 76             |   |       |   |       |   |       |   |       |   |       | 400,000   | 400   | 398,000   | 400   |
| 250    | 5500             | 5 22             |   |       |   |       |   |       |   |       |   |       | 422,000   | 460   | 418,000   | 460   |
| 262    | 5750             | 5 71             |   |       |   |       |   |       |   |       |   |       |   |       | 440,000   | 530   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 ozs. per sq. inch     |       | Static Pressure 1 1/2" Water .723 ozs. per sq. inch |       | Static Pressure 1 3/4" Water .878 ozs. per sq. inch |       | Static Pressure 2" Water 1.01 ozs. per sq. inch |       | Static Pressure 2 1/4" Water 1.16 ozs. per sq. inch |       | Static Pressure 2 1/2" Water 1.45 ozs. per sq. inch |       | Static Pressure 3" Water 1.73 ozs. per sq. inch |       |
| 136    | 3000             | 1 55             | 152,000   | 46    |   |       |   |       |   |       |   |       |   |       |   |       |
| 145    | 3200             | 1 77             | 188,000   | 64    | 127,000   | 44    |   |       |   |       |   |       |   |       |   |       |
| 155    | 3400             | 2 00             | 216,000   | 86    | 180,000   | 70    |   |       |   |       |   |       |   |       |   |       |
| 164    | 3600             | 2 24             | 240,000   | 110   | 212,000   | 92    | 168,000   | 74    |   |       |   |       |   |       |   |       |
| 173    | 3800             | 2 49             | 260,000   | 130   | 240,000   | 120   | 210,000   | 100   | 155,000   | 76    |   |       |   |       |   |       |
| 182    | 4000             | 2 76             | 280,000   | 160   | 264,000   | 150   | 244,000   | 130   | 208,000   | 110   |   |       |   |       |   |       |
| 191    | 4200             | 3 04             | 300,000   | 190   | 286,000   | 175   | 270,000   | 165   | 242,000   | 145   | 204,000   | 120   |   |       |   |       |
| 200    | 4400             | 3 34             | 320,000   | 220   | 308,000   | 210   | 292,000   | 195   | 272,000   | 180   | 246,000   | 160   |   |       |   |       |
| 209    | 4600             | 3 65             | 338,000   | 260   | 326,000   | 250   | 314,000   | 230   | 298,000   | 220   | 278,000   | 195   | 204,000   | 145   |   |       |
| 218    | 4800             | 3 98             | 356,000   | 300   | 346,000   | 280   | 334,000   | 270   | 320,000   | 260   | 304,000   | 240   | 252,000   | 190   |   |       |
| 228    | 5000             | 4 31             | 372,000   | 340   | 364,000   | 330   | 354,000   | 320   | 342,000   | 300   | 328,000   | 280   | 288,000   | 210   | 212,000   | 180   |
| 239    | 5250             | 4 76             | 394,000   | 390   | 386,000   | 390   | 378,000   | 370   | 368,000   | 360   | 356,000   | 340   | 324,000   | 300   | 274,000   | 250   |
| 250    | 5500             | 5 22             | 416,000   | 450   | 408,000   | 450   | 400,000   | 440   | 392,000   | 410   | 382,000   | 410   | 354,000   | 370   | 318,000   | 320   |
| 262    | 5750             | 5 71             | 436,000   | 520   | 430,000   | 520   | 424,000   | 510   | 416,000   | 490   | 406,000   | 480   | 386,000   | 450   | 356,000   | 400   |
| 272    | 6000             | 6 21             | 458,000   | 590   | 452,000   | 590   | 446,000   | 580   | 438,000   | 570   | 430,000   | 560   | 412,000   | 520   | 388,000   | 480   |
| 284    | 6250             | 6 74             | 478,000   | 680   | 474,000   | 670   | 468,000   | 660   | 460,000   | 650   | 454,000   | 640   | 436,000   | 610   | 416,000   | 560   |
| 296    | 6500             | 7 29             |   |       | 494,000   | 760   | 488,000   | 750   | 482,000   | 740   | 476,000   | 730   | 460,000   | 690   | 442,000   | 600   |
| 307    | 6750             | 7 86             |   |       | 516,000   | 850   | 510,000   | 840   | 504,000   | 830   | 498,000   | 820   | 482,000   | 790   | 468,000   | 760   |
| 318    | 7000             | 8 45             |   |       | 536,000   | 950   | 532,000   | 940   | 526,000   | 930   | 522,000   | 920   | 508,000   | 890   | 492,000   | 860   |
| 341    | 7500             | 9 71             |   |       |   |       | 572,000   | 1170  | 568,000   | 1160  | 564,000   | 1150  | 554,000   | 1130  | 540,000   | 1100  |
| 364    | 8000             | 11 04            |   |       |   |       |   |       | 612,000   | 1420  | 606,000   | 1400  | 598,000   | 1390  | 588,000   | 1360  |
| 386    | 8500             | 12 48            |   |       |   |       |   |       | 652,000   | 1700  | 648,000   | 1690  | 640,000   | 1680  | 630,000   | 1650  |
| 409    | 9000             | 14 00            |   |       |   |       |   |       |   |       | 690,000   | 2020  | 684,000   | 2000  | 676,000   | 1980  |
| 432    | 9500             | 15 58            |   |       |   |       |   |       |   |       |   |       | 726,000   | 2380  | 718,000   | 2340  |
| 455    | 10000            | 17 27            |   |       |   |       |   |       |   |       |   |       | 766,000   | 2780  | 760,000   | 2740  |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 3 1/2" Water 2.02 ozs. per sq. inch |       | Static Pressure 4" Water 2.31 ozs. per sq. inch     |       | Static Pressure 5" Water 2.89 ozs. per sq. inch     |       | Static Pressure 6" Water 3.47 ozs. per sq. inch |       | Static Pressure 7" Water 4.05 ozs. per sq. inch     |       | Static Pressure 8" Water 4.63 ozs. per sq. inch     |       | Static Pressure 9" Water 5.2 ozs. per sq. inch  |       |
| 250    | 5500             | 5 22             | 258,000   | 260   |   |       |   |       |   |       |   |       |   |       |   |       |
| 262    | 5750             | 5 71             | 312,000   | 340   | 238,000   | 270   |   |       |   |       |   |       |   |       |   |       |
| 272    | 6000             | 6 21             | 354,000   | 430   | 304,000   | 370   |   |       |   |       |   |       |   |       |   |       |
| 284    | 6250             | 6 74             | 388,000   | 520   | 352,000   | 460   |   |       |   |       |   |       |   |       |   |       |
| 296    | 6500             | 7 29             | 420,000   | 610   | 390,000   | 550   | 286,000   | 410   |   |       |   |       |   |       |   |       |
| 307    | 6750             | 7 86             | 448,000   | 710   | 424,000   | 660   | 348,000   | 530   |   |       |   |       |   |       |   |       |
| 318    | 7000             | 8 45             | 476,000   | 820   | 456,000   | 770   | 394,000   | 640   | 274,000   | 460   |   |       |   |       |   |       |
| 341    | 7500             | 9 71             | 526,000   | 1060  | 512,000   | 1010  | 468,000   | 900   | 402,000   | 730   |   |       |   |       |   |       |
| 364    | 8000             | 11 04            | 574,000   | 1320  | 560,000   | 1280  | 528,000   | 1180  | 484,000   | 1040  | 414,000   | 890   |   |       |   |       |
| 386    | 8500             | 12 48            | 620,000   | 1620  | 610,000   | 1580  | 582,000   | 1480  | 548,000   | 1370  | 500,000   | 1210  | 432,000   | 1050  |   |       |
| 409    | 9000             | 14 00            | 664,000   | 1950  | 656,000   | 1910  | 632,000   | 1830  | 604,000   | 1710  | 572,000   | 1590  | 522,000   | 1410  | 456,000   | 1240  |
| 432    | 9500             | 15 58            | 710,000   | 2320  | 702,000   | 2300  | 682,000   | 2220  | 656,000   | 2100  | 630,000   | 1980  | 594,000   | 1820  | 548,000   | 1650  |
| 455    | 10000            | 17 27            | 752,000   | 2720  | 746,000   | 2700  | 728,000   | 2640  | 706,000   | 2520  | 684,000   | 2400  | 656,000   | 2280  | 620,000   | 2120  |

Double Inlet

## Size "S" Supervane Fan—Design 1

Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                     | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. |
|--------|------------------|------------------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|
|        |                  |                  | Static Pressure 1/8" Water .0722 ozs. per sq. inch  |       | Static Pressure 1/4" Water .145 ozs. per sq. inch   |       | Static Pressure 3/8" Water .217 ozs. per sq. inch   |       | Static Pressure 1/2" Water .289 ozs. per sq. inch |       | Static Pressure 5/8" Water .361 ozs. per sq. inch   |       | Static Pressure 3/4" Water .434 ozs. per sq. inch   |       | Static Pressure 7/8" Water .506 ozs. per sq. inch   |       |
| 42     | 1010             | 0.176            | 47,400  | 1.65  |   |       |   |       |   |       |   |       |   |       |   |       |
| 50     | 1200             | 0.219            | 91,000  | 4.5   |   |       |   |       |   |       |   |       |   |       |   |       |
| 58     | 1400             | 0.338            | 117,000   | 8.1   |   |       |   |       |   |       |   |       |   |       |   |       |
| 66     | 1600             | 0.441            | 138,000   | 13    | 113,000   | 9.7   |   |       |   |       |   |       |   |       |   |       |
| 75     | 1800             | 0.559            | 161,600   | 19    | 143,000   | 16    | 101,000   | 11.0  |   |       |   |       |   |       |   |       |
| 83     | 2000             | 0.690            | 180,000   | 26    | 168,000   | 24    | 115,000   | 19.5  |   |       |   |       |   |       |   |       |
| 91     | 2200             | 0.835            | 202,000   | 35    | 191,000   | 33    | 175,000   | 29    | 147,000   | 23    |   |       |   |       |   |       |
| 100    | 2400             | 0.994            |   |       | 212,000   | 44    | 200,000   | 41    | 182,000   | 36    | 147,000   | 28    |   |       |   |       |
| 108    | 2600             | 1.17             |   |       | 236,000   | 58    | 224,000   | 51    | 210,000   | 50    | 196,000   | 43    | 158,000   | 36    |   |       |
| 116    | 2800             | 1.35             |   |       | 251,000   | 72    | 244,000   | 68    | 234,000   | 64    | 220,000   | 60    | 200,000   | 52    | 168,000   | 44    |
| 125    | 3000             | 1.55             |   |       | 271,000   | 90    | 266,000   | 86    | 258,000   | 84    | 246,000   | 78    | 232,000   | 72    | 212,000   | 64    |
| 133    | 3200             | 1.77             |   |       | 294,000   | 110   | 288,000   | 110   | 280,000   | 105   | 270,000   | 98    | 258,000   | 92    | 244,000   | 86    |
| 141    | 3400             | 2.00             |   |       |   |       | 308,000   | 130   | 302,000   | 130   | 294,000   | 120   | 284,000   | 115   | 274,000   | 110   |
| 149    | 3600             | 2.21             |   |       |   |       | 330,000   | 150   | 322,000   | 150   | 316,000   | 150   | 308,000   | 145   | 298,000   | 130   |
| 158    | 3800             | 2.49             |   |       |   |       | 348,000   | 180   | 344,000   | 180   | 336,000   | 175   | 330,000   | 170   | 320,000   | 165   |
| 166    | 4000             | 2.76             |   |       |   |       |   |       | 364,000   | 210   | 358,000   | 210   | 352,000   | 200   | 344,000   | 195   |
| 174    | 4200             | 3.04             |   |       |   |       |   |       | 384,000   | 240   | 378,000   | 240   | 372,000   | 240   | 366,000   | 230   |
| 183    | 4400             | 3.31             |   |       |   |       |   |       | 404,000   | 280   | 400,000   | 280   | 394,000   | 280   | 398,000   | 270   |
| 191    | 4600             | 3.65             |   |       |   |       |   |       |   |       | 420,000   | 320   | 414,000   | 320   | 410,000   | 310   |
| 199    | 4800             | 3.98             |   |       |   |       |   |       |   |       | 438,000   | 370   | 434,000   | 360   | 430,000   | 360   |
| 208    | 5000             | 4.31             |   |       |   |       |   |       |   |       | 460,000   | 410   | 456,000   | 410   | 452,000   | 410   |
| 218    | 5250             | 4.76             |   |       |   |       |   |       |   |       |   |       | 480,000   | 480   | 476,000   | 480   |
| 228    | 5500             | 5.22             |   |       |   |       |   |       |   |       |   |       | 506,000   | 560   | 502,000   | 550   |
| 239    | 5750             | 5.71             |   |       |   |       |   |       |   |       |   |       |   |       | 526,000   | 630   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 ozs. per sq. inch     |       | Static Pressure 1 1/2" Water .723 ozs. per sq. inch |       | Static Pressure 1 3/4" Water .878 ozs. per sq. inch |       | Static Pressure 2" Water 1.01 ozs. per sq. inch   |       | Static Pressure 2 1/4" Water 1.16 ozs. per sq. inch |       | Static Pressure 2 1/2" Water 1.45 ozs. per sq. inch |       | Static Pressure 2 3/4" Water 1.73 ozs. per sq. inch |       |
| 125    | 3000             | 1.55             | 182,000   | 54    |   |       |   |       |   |       |   |       |   |       |   |       |
| 133    | 3200             | 1.77             | 226,000   | 78    | 152,000   | 52    |   |       |   |       |   |       |   |       |   |       |
| 141    | 3400             | 2.00             | 258,000   | 105   | 216,000   | 81    |   |       |   |       |   |       |   |       |   |       |
| 149    | 3600             | 2.21             | 286,000   | 130   | 256,000   | 110   | 202,000   | 88    |   |       |   |       |   |       |   |       |
| 158    | 3800             | 2.49             | 312,000   | 160   | 288,000   | 145   | 252,000   | 120   | 186,000   | 92    |   |       |   |       |   |       |
| 166    | 4000             | 2.76             | 336,000   | 190   | 316,000   | 175   | 292,000   | 155   | 248,000   | 130   |   |       |   |       |   |       |
| 174    | 4200             | 3.04             | 360,000   | 230   | 344,000   | 210   | 324,000   | 195   | 290,000   | 170   | 246,000   | 145   |   |       |   |       |
| 183    | 4400             | 3.31             | 384,000   | 270   | 368,000   | 250   | 350,000   | 240   | 326,000   | 210   | 294,000   | 190   |   |       |   |       |
| 191    | 4600             | 3.65             | 404,000   | 310   | 392,000   | 300   | 376,000   | 280   | 358,000   | 260   | 332,000   | 240   | 246,000   | 175   |   |       |
| 199    | 4800             | 3.98             | 426,000   | 360   | 414,000   | 340   | 400,000   | 330   | 384,000   | 310   | 364,000   | 290   | 302,000   | 230   |   |       |
| 208    | 5000             | 4.31             | 446,000   | 410   | 436,000   | 390   | 424,000   | 380   | 410,000   | 360   | 394,000   | 340   | 344,000   | 290   | 254,000   | 210   |
| 218    | 5250             | 4.76             | 472,000   | 470   | 464,000   | 470   | 452,000   | 450   | 440,000   | 430   | 426,000   | 410   | 388,000   | 360   | 328,000   | 300   |
| 228    | 5500             | 5.22             | 498,000   | 540   | 490,000   | 510   | 480,000   | 530   | 468,000   | 510   | 456,000   | 490   | 424,000   | 410   | 382,000   | 330   |
| 239    | 5750             | 5.71             | 522,000   | 630   | 516,000   | 620   | 508,000   | 610   | 498,000   | 590   | 486,000   | 580   | 462,000   | 530   | 426,000   | 480   |
| 249    | 6000             | 6.21             | 548,000   | 710   | 542,000   | 710   | 534,000   | 700   | 526,000   | 680   | 516,000   | 670   | 492,000   | 630   | 464,000   | 580   |
| 260    | 6250             | 6.74             | 574,000   | 810   | 568,000   | 800   | 560,000   | 790   | 552,000   | 780   | 544,000   | 760   | 524,000   | 730   | 498,000   | 680   |
| 270    | 6500             | 7.29             |   |       | 592,000   | 910   | 586,000   | 890   | 578,000   | 880   | 572,000   | 870   | 552,000   | 830   | 530,000   | 790   |
| 280    | 6750             | 7.86             |   |       | 618,000   | 1020  | 612,000   | 1010  | 604,000   | 1000  | 596,000   | 990   | 580,000   | 950   | 560,000   | 910   |
| 291    | 7000             | 8.45             |   |       | 642,000   | 1140  | 636,000   | 1130  | 630,000   | 1120  | 624,000   | 1110  | 608,000   | 1070  | 590,000   | 1030  |
| 312    | 7500             | 9.71             |   |       |   |       | 686,000   | 1400  | 682,000   | 1390  | 676,000   | 1370  | 664,000   | 1360  | 648,000   | 1310  |
| 332    | 8000             | 11.04            |   |       |   |       |   |       | 732,000   | 1700  | 726,000   | 1680  | 716,000   | 1660  | 704,000   | 1620  |
| 353    | 8500             | 12.48            |   |       |   |       |   |       | 782,000   | 2040  | 778,000   | 2040  | 758,000   | 2020  | 756,000   | 1980  |
| 374    | 9000             | 14.00            |   |       |   |       |   |       |   |       | 826,000   | 2420  | 810,000   | 2400  | 810,000   | 2380  |
| 394    | 9500             | 15.58            |   |       |   |       |   |       |   |       |   |       | 870,000   | 2810  | 860,000   | 2800  |
| 415    | 10000            | 17.27            |   |       |   |       |   |       |   |       |   |       | 912,000   | 3320  | 912,000   | 3280  |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 3 1/2" Water 2.02 ozs. per sq. inch |       | Static Pressure 4" Water 2.31 ozs. per sq. inch     |       | Static Pressure 5" Water 2.89 ozs. per sq. inch     |       | Static Pressure 6" Water 3.47 ozs. per sq. inch   |       | Static Pressure 7" Water 4.05 ozs. per sq. inch     |       | Static Pressure 8" Water 4.63 ozs. per sq. inch     |       | Static Pressure 9" Water 5.2 ozs. per sq. inch      |       |
| 228    | 5500             | 5.22             | 308,000   | 310   |   |       |   |       |   |       |   |       |   |       |   |       |
| 239    | 5750             | 5.71             | 374,000   | 410   | 286,000   | 320   |   |       |   |       |   |       |   |       |   |       |
| 249    | 6000             | 6.21             | 424,000   | 510   | 364,000   | 410   |   |       |   |       |   |       |   |       |   |       |
| 260    | 6250             | 6.74             | 466,000   | 620   | 422,000   | 550   |   |       |   |       |   |       |   |       |   |       |
| 270    | 6500             | 7.29             | 504,000   | 710   | 468,000   | 660   | 314,000   | 490   |   |       |   |       |   |       |   |       |
| 280    | 6750             | 7.86             | 538,000   | 850   | 508,000   | 790   | 416,000   | 640   |   |       |   |       |   |       |   |       |
| 291    | 7000             | 8.45             | 570,000   | 980   | 546,000   | 920   | 474,000   | 770   | 328,000   | 550   |   |       |   |       |   |       |
| 312    | 7500             | 9.71             | 630,000   | 1270  | 612,000   | 1270  | 562,000   | 1080  | 482,000   | 880   |   |       |   |       |   |       |
| 332    | 8000             | 11.04            | 688,000   | 1580  | 672,000   | 1530  | 632,000   | 1170  | 580,000   | 1250  | 496,000   | 1070  |   |       |   |       |
| 353    | 8500             | 12.48            | 744,000   | 1940  | 732,000   | 1900  | 698,000   | 1780  | 636,000   | 1640  | 600,000   | 1460  | 518,000   | 1260  |   |       |
| 374    | 9000             | 14.00            | 796,000   | 2340  | 788,000   | 2300  | 758,000   | 2200  | 722,000   | 2000  | 684,000   | 1910  | 626,000   | 1690  | 548,000   | 1490  |
| 394    | 9500             | 15.58            | 850,000   | 2780  | 840,000   | 2740  | 816,000   | 2640  | 786,000   | 2520  | 756,000   | 2380  | 712,000   | 2180  | 656,000   | 1980  |
| 415    | 10000            | 17.27            | 902,000   | 3280  | 896,000   | 3210  | 872,000   | 3160  | 846,000   | 3040  | 820,000   | 2900  | 786,000   | 2740  | 744,000   | 2540  |

# Double Inlet Size "T" Supervane Fan—Design 1 Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M. H.P. Static Pressure 1/2" Water .072 oza. per sq. inch | Volume C.F.M. H.P. Static Pressure 3/4" Water .145 oza. per sq. inch | Volume C.F.M. H.P. Static Pressure 1" Water .217 oza. per sq. inch | Volume C.F.M. H.P. Static Pressure 1 1/4" Water .289 oza. per sq. inch | Volume C.F.M. H.P. Static Pressure 1 1/2" Water .361 oza. per sq. inch | Volume C.F.M. H.P. Static Pressure 1 3/4" Water .434 oza. per sq. inch | Volume C.F.M. H.P. Static Pressure 2" Water .506 oza. per sq. inch |
|--------|------------------|------------------|--|--|--|--|--|--|--|
| 39     | 1010             | 0.176            | 56,000 2 0   |  |  |  |  |  |  |
| 46     | 1200             | 0.219            | 107,000 5.3  |  |  |  |  |  |  |
| 53     | 1400             | 0.338            | 138,000 9.6  |  |  |  |  |  |  |
| 61     | 1600             | 0.441            | 163,000 15   | 133,000 12   |  |  |  |  |  |
| 69     | 1800             | 0.559            | 190,000 22   | 160,000 19   | 119,000 13   |  |  |  |  |
| 76     | 2000             | 0.690            | 214,000 31   | 199,000 28   | 171,000 23   |  |  |  |  |
| 84     | 2200             | 0.835            | 240,000 42   | 226,000 39   | 206,000 35   | 174,000 28   |  |  |  |
| 92     | 2400             | 0.991            |  | 252,000 52   | 236,000 48   | 216,000 42   | 174,000 34   |  |  |
| 99     | 2600             | 1.17             |  | 278,000 68   | 264,000 64   | 248,000 58   | 224,000 52   | 187,000 42   |  |
| 107    | 2800             | 1.35             |  | 300,000 84   | 288,000 82   | 276,000 76   | 260,000 70   | 236,000 62   | 199,000 52   |
| 115    | 3000             | 1.55             |  | 321,000 105  | 314,000 105  | 304,000 98   | 290,000 92   | 274,000 84   | 250,000 76   |
| 122    | 3200             | 1.77             |  | 348,000 130  | 340,000 130  | 330,000 120  | 320,000 115  | 306,000 110  | 288,000 100  |
| 130    | 3400             | 2.00             |  |  | 364,000 150  | 356,000 150  | 346,000 145  | 334,000 135  | 322,000 130  |
| 138    | 3600             | 2.24             |  |  | 388,000 180  | 380,000 180  | 372,000 170  | 362,000 170  | 352,000 160  |
| 145    | 3800             | 2.49             |  |  | 412,000 210  | 406,000 210  | 398,000 210  | 388,000 200  | 380,000 195  |
| 153    | 4000             | 2.76             |  |  |  | 430,000 250  | 422,000 240  | 416,000 240  | 406,000 230  |
| 160    | 4200             | 3.04             |  |  |  | 454,000 290  | 448,000 290  | 440,000 280  | 434,000 280  |
| 168    | 4400             | 3.34             |  |  |  | 478,000 340  | 472,000 330  | 466,000 330  | 458,000 320  |
| 176    | 4600             | 3.65             |  |  |  |  | 496,000 380  | 490,000 370  | 484,000 370  |
| 183    | 4800             | 3.98             |  |  |  |  | 518,000 430  | 514,000 430  | 508,000 420  |
| 191    | 5000             | 4.31             |  |  |  |  | 542,000 490  | 530,000 490  | 522,000 480  |
| 201    | 5250             | 4.76             |  |  |  |  |  | 568,000 570  | 576,000 560  |
| 210    | 5500             | 5.22             |  |  |  |  |  | 598,000 660  | 592,000 650  |
| 220    | 5750             | 5.71             |  |  |  |  |  |  | 622,000 740  |

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 oza. per sq. inch | Static Pressure 1 1/4" Water .723 oza. per sq. inch | Static Pressure 1 1/2" Water .878 oza. per sq. inch | Static Pressure 1 3/4" Water 1.01 oza. per sq. inch | Static Pressure 2" Water 1.16 oza. per sq. inch | Static Pressure 2 1/2" Water 1.45 oza. per sq. inch | Static Pressure 3" Water 1.73 oza. per sq. inch |
|--------|------------------|------------------|---|---|---|---|---|---|---|
| 115    | 3000             | 1.55             | 216,000 61                                      |   |   |   |   |   |   |
| 122    | 3200             | 1.77             | 268,000 92                                      | 180,000 62  |   |   |   |   |   |
| 130    | 3400             | 2.00             | 306,000 120                                     | 254,000 98  |   |   |   |   |   |
| 138    | 3600             | 2.24             | 340,000 150                                     | 302,000 130   | 238,000 105   |   |   |   |   |
| 145    | 3800             | 2.49             | 368,000 190                                     | 340,000 170   | 298,000 145   | 220,000 110   |   |   |   |
| 153    | 4000             | 2.76             | 398,000 230                                     | 374,000 210   | 346,000 185   | 294,000 155   |   |   |   |
| 160    | 4200             | 3.04             | 424,000 270                                     | 406,000 250   | 384,000 230   | 344,000 200   | 290,000 170                                     |   |   |
| 168    | 4400             | 3.34             | 452,000 310                                     | 434,000 300   | 414,000 280   | 386,000 250   | 348,000 220                                     |   |   |
| 176    | 4600             | 3.65             | 478,000 370                                     | 462,000 350   | 444,000 330   | 422,000 310   | 392,000 280                                     |   |   |
| 183    | 4800             | 3.98             | 504,000 420                                     | 488,000 400   | 472,000 390   | 454,000 360   | 430,000 340                                     | 290,000 270   |   |
| 191    | 5000             | 4.31             | 528,000 480                                     | 516,000 470   | 500,000 450   | 484,000 430   | 464,000 400                                     | 408,000 340   | 300,000 250                                     |
| 201    | 5250             | 4.76             | 558,000 560                                     | 548,000 550   | 534,000 470   | 520,000 510   | 504,000 490                                     | 460,000 430   | 388,000 360                                     |
| 210    | 5500             | 5.22             | 588,000 640                                     | 578,000 630   | 568,000 620   | 554,000 600   | 540,000 580                                     | 502,000 520   | 452,000 460                                     |
| 220    | 5750             | 5.71             | 618,000 740                                     | 610,000 730   | 600,000 720   | 588,000 700   | 576,000 680                                     | 546,000 630   | 504,000 560                                     |
| 229    | 6000             | 6.21             | 648,000 840                                     | 640,000 830   | 632,000 830   | 620,000 810   | 610,000 790                                     | 582,000 740   | 548,000 680                                     |
| 239    | 6250             | 6.74             | 678,000 960                                     | 670,000 950   | 662,000 930   | 652,000 920   | 642,000 900                                     | 618,000 860   | 588,000 800                                     |
| 248    | 6500             | 7.29             |   | 700,000 1070  | 692,000 1060  | 684,000 1050  | 674,000 1030                                    | 652,000 980   | 626,000 930                                     |
| 258    | 6750             | 7.86             |   | 730,000 1200  | 722,000 1190  | 714,000 1180  | 706,000 1160                                    | 686,000 1120  | 662,000 1070                                    |
| 268    | 7000             | 8.45             |   | 758,000 1340  | 752,000 1330  | 744,000 1320  | 738,000 1310                                    | 718,000 1270  | 698,000 1220                                    |
| 286    | 7500             | 9.71             |   |   | 810,000 1650  | 804,000 1640  | 798,000 1620                                    | 784,000 1600  | 766,000 1550                                    |
| 306    | 8000             | 11.04            |   |   |   | 866,000 2020  | 858,000 1990                                    | 848,000 1960  | 830,000 1920                                    |
| 325    | 8500             | 12.48            |   |   |   | 924,000 2420  | 920,000 2400                                    | 908,000 2380  | 892,000 2340                                    |
| 344    | 9000             | 14.00            |   |   |   |   | 976,000 2860                                    | 968,000 2840  | 956,000 2800                                    |
| 363    | 9500             | 15.58            |   |   |   |   |   | 1,028,000 3360                                      | 1,016,000 3320                                  |
| 382    | 10000            | 17.27            |   |   |   |   |   | 1,084,000 3920                                      | 1,078,000 3880                                  |

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 3 1/2" Water 2.02 oza. per sq. inch | Static Pressure 4" Water 2.31 oza. per sq. inch | Static Pressure 5" Water 2.89 oza. per sq. inch | Static Pressure 6" Water 3.47 oza. per sq. inch | Static Pressure 7" Water 4.05 oza. per sq. inch | Static Pressure 8" Water 4.63 oza. per sq. inch | Static Pressure 9" Water 5.2 oza. per sq. inch |
|--------|------------------|------------------|---|---|---|---|---|---|--|
| 210    | 5500             | 5.22             | 364,000 370   |   |   |   |   |   |  |
| 220    | 5750             | 5.71             | 442,000 490   | 338,000 380                                     |   |   |   |   |  |
| 229    | 6000             | 6.21             | 500,000 600   | 430,000 520                                     |   |   |   |   |  |
| 239    | 6250             | 6.74             | 559,000 730   | 498,000 650                                     |   |   |   |   |  |
| 248    | 6500             | 7.29             | 596,000 870   | 554,000 780                                     | 406,000 580                                     |   |   |   |  |
| 258    | 6750             | 7.86             | 636,000 1010  | 602,000 940                                     | 492,000 770                                     |   |   |   |  |
| 268    | 7000             | 8.45             | 674,000 1160  | 646,000 1080                                    | 560,000 910                                     | 388,000 640                                     |   |   |  |
| 286    | 7500             | 9.71             | 744,000 1500  | 724,000 1430                                    | 664,000 1270                                    | 570,000 1040                                    |   |   |  |
| 306    | 8000             | 11.04            | 814,000 1870  | 796,000 1810                                    | 748,000 1670                                    | 684,000 1470                                    | 588,000 1260                                    |   |  |
| 325    | 8500             | 12.48            | 880,000 2300  | 864,000 2240                                    | 824,000 2100                                    | 776,000 1940                                    | 710,000 1720                                    | 612,000 1480                                    |  |
| 344    | 9000             | 14.00            | 910,000 2760  | 930,000 2700                                    | 896,000 2600                                    | 854,000 2420                                    | 810,000 2260                                    | 740,000 2000                                    | 646,000 1760                                   |
| 363    | 9500             | 15.58            | 1,006,000 3280                                      | 994,000 3240                                    | 966,000 3120                                    | 930,000 2980                                    | 892,000 2800                                    | 840,000 2580                                    | 776,000 2340                                   |
| 382    | 10000            | 17.27            | 1,066,000 3960                                      | 1,058,000 3820                                  | 1,030,000 3720                                  | 1,000,000 3580                                  | 968,000 3420                                    | 930,000 3220                                    | 878,000 3000                                   |

# Double Inlet Size "U" Supervane Fan—Design 1 Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M. H. P. Static Pressure 1/2" Water .072 oza. per sq. inch | Volume C.F.M. H. P. Static Pressure 1/2" Water .145 oza. per sq. inch | Volume C.F.M. H. P. Static Pressure 3/4" Water .217 oza. per sq. inch | Volume C.F.M. H. P. Static Pressure 1" Water .289 oza. per sq. inch | Volume C.F.M. H. P. Static Pressure 1 1/4" Water .361 oza. per sq. inch | Volume C.F.M. H. P. Static Pressure 1 1/2" Water .434 oza. per sq. inch | Volume C.F.M. H. P. Static Pressure 1 3/4" Water .506 oza. per sq. inch |
|--------|------------------|------------------|---|---|---|---|---|---|---|
| 36     | 1010             | 0 176            | 65,000 2 3  |   |   |   |   |   |   |
| 42     | 1200             | 0 219            | 126,000 6 2   |   |   |   |   |   |   |
| 50     | 1400             | 0 338            | 162,000 11 0  |   |   |   |   |   |   |
| 57     | 1600             | 0 441            | 191,000 16 5  | 156,000 13  |   |   |   |   |   |
| 64     | 1800             | 0 559            | 222,000 26  | 198,000 22  | 140,000 15  |   |   |   |   |
| 71     | 2000             | 0 690            | 250,000 36  | 232,000 33  | 200,000 27  |   |   |   |   |
| 78     | 2200             | 0 835            | 280,000 49  | 264,000 46  | 242,000 41  | 201,000 32  |   |   |   |
| 85     | 2400             | 0 994            |   | 291,000 62  | 276,000 56  | 252,000 50  | 201,000 39  |   |   |
| 92     | 2600             | 1 17             |   | 326,000 78  | 310,000 76  | 290,000 68  | 261,000 60  | 218,000 50  |   |
| 99     | 2800             | 1 35             |   | 352,000 100   | 338,000 96  | 324,000 90  | 301,000 82  | 278,000 72  | 232,000 62  |
| 106    | 3000             | 1 55             |   | 380,000 125   | 368,000 120   | 356,000 115   | 340,000 110   | 320,000 100   | 294,000 88  |
| 113    | 3200             | 1 77             |   | 406,000 150   | 398,000 150   | 386,000 145   | 374,000 135   | 358,000 130   | 338,000 120   |
| 120    | 3400             | 2 00             |   |   | 426,000 180   | 418,000 175   | 406,000 170   | 392,000 160   | 378,000 150   |
| 128    | 3600             | 2 24             |   |   | 456,000 210   | 446,000 210   | 436,000 200   | 424,000 195   | 412,000 190   |
| 135    | 3800             | 2 49             |   |   | 482,000 250   | 474,000 250   | 464,000 250   | 456,000 240   | 444,000 230   |
| 142    | 4000             | 2 76             |   |   |   | 504,000 290   | 494,000 290   | 486,000 280   | 476,000 270   |
| 149    | 4200             | 3 04             |   |   |   | 532,000 340   | 524,000 330   | 516,000 330   | 508,000 320   |
| 156    | 4400             | 3 31             |   |   |   | 560,000 390   | 552,000 390   | 546,000 380   | 538,000 380   |
| 163    | 4600             | 3 65             |   |   |   |   | 580,000 450   | 574,000 450   | 566,000 440   |
| 170    | 4800             | 3 98             |   |   |   |   | 608,000 510   | 602,000 500   | 596,000 500   |
| 177    | 5000             | 4 31             |   |   |   |   | 636,000 570   | 630,000 570   | 624,000 570   |
| 186    | 5250             | 4 76             |   |   |   |   |   | 664,000 670   | 660,000 660   |
| 195    | 5500             | 5 22             |   |   |   |   |   | 700,000 770   | 694,000 760   |
| 204    | 5750             | 5 71             |   |   |   |   |   |   | 730,000 870   |
| 106    | 3000             | 1 55             | 252,000 76  |   |   |   |   |   |   |
| 113    | 3200             | 1 77             | 312,000 110   | 210,000 74  |   |   |   |   |   |
| 120    | 3400             | 2 00             | 358,000 140   | 298,000 115   |   |   |   |   |   |
| 128    | 3600             | 2 24             | 396,000 180   | 354,000 150   | 280,000 120   |   |   |   |   |
| 135    | 3800             | 2 49             | 432,000 220   | 400,000 195   | 350,000 170   | 258,000 125   |   |   |   |
| 142    | 4000             | 2 76             | 464,000 270   | 438,000 240   | 404,000 220   | 344,000 185   |   |   |   |
| 149    | 4200             | 3 04             | 498,000 310   | 474,000 290   | 448,000 270   | 402,000 210   | 340,000 200   |   |   |
| 156    | 4400             | 3 31             | 530,000 370   | 508,000 350   | 484,000 330   | 452,000 300   | 408,000 260   |   |   |
| 163    | 4600             | 3 65             | 560,000 430   | 542,000 410   | 520,000 390   | 494,000 360   | 460,000 330   | 310,000 210   |   |
| 170    | 4800             | 3 98             | 590,000 490   | 572,000 470   | 552,000 450   | 532,000 430   | 504,000 400   | 418,000 320   |   |
| 177    | 5000             | 4 31             | 618,000 560   | 604,000 550   | 586,000 520   | 568,000 500   | 544,000 470   | 478,000 400   | 352,000 300   |
| 186    | 5250             | 4 76             | 654,000 650   | 640,000 650   | 626,000 620   | 610,000 600   | 590,000 570   | 558,000 500   | 454,000 420   |
| 195    | 5500             | 5 22             | 688,000 750   | 678,000 740   | 664,000 730   | 650,000 700   | 632,000 680   | 588,000 610   | 528,000 530   |
| 204    | 5750             | 5 71             | 724,000 870   | 714,000 860   | 702,000 840   | 688,000 820   | 674,000 800   | 638,000 740   | 590,000 660   |
| 213    | 6000             | 6 21             | 760,000 980   | 750,000 980   | 738,000 970   | 728,000 940   | 714,000 920   | 682,000 870   | 642,000 800   |
| 222    | 6250             | 6 74             | 794,000 1120  | 786,000 1110  | 774,000 1090  | 764,000 1080  | 752,000 1060  | 724,000 1010  | 690,000 910   |
| 230    | 6500             | 7 29             |   | 820,000 1260  | 810,000 1240  | 800,000 1230  | 790,000 1210  | 764,000 1150  | 734,000 1090  |
| 239    | 6750             | 7 86             |   | 854,000 1410  | 846,000 1390  | 836,000 1380  | 826,000 1360  | 804,000 1320  | 776,000 1250  |
| 248    | 7000             | 8 45             |   | 888,000 1570  | 880,000 1560  | 872,000 1550  | 864,000 1530  | 840,000 1480  | 818,000 1430  |
| 266    | 7500             | 9 71             |   |   | 950,000 1940  | 942,000 1920  | 936,000 1900  | 920,000 1880  | 898,000 1820  |
| 283    | 8000             | 11 04            |   |   |   | 1,012,000 2360  | 1,006,000 2320  | 992,000 2300  | 974,000 2240  |
| 301    | 8500             | 12 48            |   |   |   | 1,084,000 2820  | 1,078,000 2810  | 1,062,000 2780  | 1,046,000 2740  |
| 319    | 9000             | 14 00            |   |   |   |   | 1,144,000 3340  | 1,132,000 3320  | 1,120,000 3280  |
| 336    | 9500             | 15 58            |   |   |   |   |   | 1,202,000 3940  | 1,190,000 3880  |
| 354    | 10000            | 17 27            |   |   |   |   |   | 1,270,000 4600  | 1,260,000 4560  |
| 195    | 5500             | 5 22             | 228,000 440   |   |   |   |   |   |   |
| 204    | 5750             | 5 71             | 518,000 570   | 396,000 440   |   |   |   |   |   |
| 213    | 6000             | 6 21             | 586,000 710   | 504,000 610   |   |   |   |   |   |
| 222    | 6250             | 6 74             | 644,000 860   | 584,000 760   |   |   |   |   |   |
| 230    | 6500             | 7 29             | 698,000 1020  | 648,000 920   | 476,000 680   |   |   |   |   |
| 239    | 6750             | 7 86             | 744,000 1180  | 704,000 1100  | 576,000 880   |   |   |   |   |
| 248    | 7000             | 8 45             | 790,000 1360  | 756,000 1280  | 656,000 1070  | 454,000 760   |   |   |   |
| 266    | 7500             | 9 71             | 872,000 1750  | 848,000 1680  | 778,000 1490  | 668,000 1210  |   |   |   |
| 283    | 8000             | 11 04            | 954,000 2200  | 930,000 2120  | 876,000 1950  | 800,000 1730  | 688,000 1470  |   |   |
| 301    | 8500             | 12 48            | 1,030,000 2680  | 1,012,000 2620  | 966,000 2460  | 910,000 2280  | 830,000 2020  | 716,000 1740  |   |
| 319    | 9000             | 14 00            | 1,102,000 3240  | 1,090,000 3180  | 1,050,000 3040  | 1,000,000 2840  | 948,000 2640  | 866,000 2340  | 758,000 2060  |
| 336    | 9500             | 15 58            | 1,178,000 3860  | 1,164,000 3800  | 1,130,000 3660  | 1,090,000 3480  | 1,046,000 3280  | 984,000 3020  | 910,000 2740  |
| 354    | 10000            | 17 27            | 1,250,000 4520  | 1,238,000 4480  | 1,208,000 4360  | 1,172,000 4200  | 1,134,000 4000  | 1,090,000 3780  | 1,030,000 3500  |

# Double Inlet Size "V" Supervane Fan—Design 1 Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M. H. P. Static Pressure 1/2" Water .0722 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1/2" Water .145 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 3/4" Water .217 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1" Water .289 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 5/8" Water .361 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 3/4" Water .434 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1" Water .506 ozs. per sq. inch |
|--------|------------------|------------------|--|---|---|---|---|---|---|
| 33     | 1010             | 0.176            | 75,400 2.6   |   |   |   |   |   |   |
| 39     | 1200             | 0.249            | 115,000 7.1  |   |   |   |   |   |   |
| 46     | 1400             | 0.338            | 180,000 13   |   |   |   |   |   |   |
| 53     | 1600             | 0.441            | 220,000 20   | 180,000 16  |   |   |   |   |   |
| 59     | 1800             | 0.559            | 256,000 30   | 228,000 26  | 161,000 18  |   |   |   |   |
| 66     | 2000             | 0.690            | 288,000 42   | 268,000 38  | 230,000 31  |   |   |   |   |
| 72     | 2200             | 0.835            | 322,000 56   | 304,000 51  | 280,000 47  | 231,000 37  |   |   |   |
| 79     | 2400             | 0.994            |  | 340,000 70  | 318,000 66  | 290,000 51  | 231,000 45  |   |   |
| 86     | 2600             | 1.17             |  | 376,000 90  | 356,000 86  | 331,000 80  | 302,000 70  | 252,000 68  |   |
| 92     | 2800             | 1.35             |  | 406,000 115   | 388,000 110   | 374,000 105   | 350,000 96  | 320,000 81  | 268,000 70  |
| 99     | 3000             | 1.55             |  | 438,000 145   | 424,000 140   | 410,000 130   | 392,000 125   | 368,000 115   | 338,000 100   |
| 105    | 3200             | 1.77             |  | 468,000 170   | 458,000 170   | 446,000 165   | 430,000 155   | 412,000 150   | 388,000 135   |
| 112    | 3400             | 2.00             |  |   | 490,000 210   | 480,000 200   | 468,000 195   | 452,000 190   | 436,000 175   |
| 118    | 3600             | 2.24             |  |   | 524,000 240   | 512,000 240   | 502,000 230   | 490,000 230   | 474,000 220   |
| 125    | 3800             | 2.49             |  |   | 556,000 290   | 546,000 290   | 536,000 280   | 524,000 270   | 512,000 260   |
| 132    | 4000             | 2.76             |  |   |   | 578,000 310   | 570,000 330   | 560,000 320   | 548,000 320   |
| 138    | 4200             | 3.04             |  |   |   | 612,000 390   | 604,000 390   | 594,000 380   | 584,000 370   |
| 145    | 4400             | 3.31             |  |   |   | 644,000 450   | 636,000 450   | 628,000 440   | 618,000 430   |
| 151    | 4600             | 3.65             |  |   |   |   | 668,000 510   | 660,000 500   | 652,000 500   |
| 158    | 4800             | 3.98             |  |   |   |   | 700,000 580   | 692,000 580   | 686,000 570   |
| 164    | 5000             | 4.31             |  |   |   |   | 732,000 660   | 726,000 660   | 718,000 660   |
| 173    | 5250             | 4.76             |  |   |   |   |   | 764,000 770   | 758,000 760   |
| 181    | 5500             | 5.22             |  |   |   |   |   | 804,000 880   | 800,000 870   |
| 189    | 5750             | 5.71             |  |   |   |   |   |   | 840,000 1000  |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 ozs. per sq. inch                        | Static Pressure 1 1/2" Water .723 ozs. per sq. inch                   | Static Pressure 1 1/2" Water .878 ozs. per sq. inch                   | Static Pressure 1 3/4" Water 1.01 ozs. per sq. inch                 | Static Pressure 2" Water 1.16 ozs. per sq. inch                       | Static Pressure 2 1/2" Water 1.45 ozs. per sq. inch                   | Static Pressure 3" Water 1.73 ozs. per sq. inch                     |
| 99     | 3000             | 1.55             | 290,000 88   |   |   |   |   |   |   |
| 105    | 3200             | 1.77             | 360,000 125  | 212,000 81  |   |   |   |   |   |
| 112    | 3400             | 2.00             | 412,000 165  | 314,000 130   |   |   |   |   |   |
| 118    | 3600             | 2.24             | 456,000 210  | 406,000 175   | 322,000 140   |   |   |   |   |
| 125    | 3800             | 2.49             | 496,000 250  | 480,000 230   | 402,000 195   | 296,000 145   |   |   |   |
| 132    | 4000             | 2.76             | 536,000 310  | 504,000 280   | 466,000 250   | 396,000 210   |   |   |   |
| 138    | 4200             | 3.04             | 572,000 360  | 546,000 340   | 516,000 310   | 464,000 270   | 392,000 230   |   |   |
| 145    | 4400             | 3.31             | 610,000 420  | 586,000 400   | 558,000 380   | 520,000 310   | 408,000 300   |   |   |
| 151    | 4600             | 3.65             | 644,000 490  | 624,000 470   | 598,000 450   | 570,000 420   | 530,000 380   | 390,000 280   |   |
| 158    | 4800             | 3.98             | 680,000 570  | 658,000 540   | 636,000 520   | 612,000 490   | 580,000 460   | 430,000 370   |   |
| 164    | 5000             | 4.31             | 712,000 650  | 696,000 630   | 678,000 600   | 652,000 570   | 628,000 540   | 550,000 460   | 404,000 340   |
| 173    | 5250             | 4.76             | 752,000 750  | 738,000 750   | 720,000 710   | 702,000 690   | 680,000 660   | 620,000 580   | 522,000 480   |
| 181    | 5500             | 5.22             | 792,000 870  | 780,000 800   | 766,000 840   | 748,000 810   | 728,000 780   | 676,000 710   | 608,000 610   |
| 189    | 5750             | 5.71             | 832,000 1000   | 822,000 980   | 810,000 970   | 792,000 940   | 776,000 920   | 734,000 850   | 678,000 700   |
| 197    | 6000             | 6.21             | 874,000 1130   | 862,000 1130  | 850,000 1110  | 838,000 1090  | 820,000 1060  | 784,000 1000  | 738,000 920   |
| 206    | 6250             | 6.74             | 914,000 1290   | 904,000 1280  | 890,000 1260  | 880,000 1240  | 866,000 1220  | 832,000 1160  | 792,000 1080  |
| 214    | 6500             | 7.29             |  | 942,000 1450  | 934,000 1420  | 920,000 1410  | 910,000 1390  | 878,000 1320  | 844,000 1260  |
| 222    | 6750             | 7.86             |  | 984,000 1620  | 974,000 1600  | 962,000 1590  | 950,000 1570  | 924,000 1510  | 892,000 1440  |
| 230    | 7000             | 8.45             |  | 1,020,000 1810  | 1,010,000 1800  | 1,010,000 1780  | 994,000 1760  | 970,000 1710  | 940,000 1650  |
| 247    | 7500             | 9.71             |  |   | 1,090,000 2240  | 1,090,000 2220  | 1,080,000 2180  | 1,060,000 2160  | 1,030,000 2100  |
| 263    | 8000             | 11.01            |  |   |   | 1,170,000 2720  | 1,160,000 2680  | 1,140,000 2640  | 1,120,000 2580  |
| 280    | 8500             | 12.48            |  |   |   | 1,248,000 3240  | 1,240,000 3240  | 1,220,000 3220  | 1,200,000 3160  |
| 296    | 9000             | 14.00            |  |   |   |   | 1,320,000 3860  | 1,300,000 3840  | 1,290,000 3780  |
| 312    | 9500             | 15.58            |  |   |   |   |   | 1,380,000 4520  | 1,370,000 4480  |
| 329    | 10000            | 17.27            |  |   |   |   |   | 1,460,000 5300  | 1,450,000 5240  |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 3 1/2" Water 2.02 ozs. per sq. inch                    | Static Pressure 4" Water 2.31 ozs. per sq. inch                       | Static Pressure 5" Water 2.89 ozs. per sq. inch                       | Static Pressure 6" Water 3.47 ozs. per sq. inch                     | Static Pressure 7" Water 4.05 ozs. per sq. inch                       | Static Pressure 8" Water 4.63 ozs. per sq. inch                       | Static Pressure 9" Water 5.2 ozs. per sq. inch                      |
| 181    | 5500             | 5.22             | 492,000 500  |   |   |   |   |   |   |
| 189    | 5750             | 5.71             | 596,000 660  | 456,000 510   |   |   |   |   |   |
| 197    | 6000             | 6.21             | 674,000 820  | 580,000 700   |   |   |   |   |   |
| 206    | 6250             | 6.74             | 742,000 980  | 672,000 870   |   |   |   |   |   |
| 214    | 6500             | 7.29             | 802,000 1170   | 716,000 1060  | 548,000 780   |   |   |   |   |
| 222    | 6750             | 7.86             | 858,000 1360   | 810,000 1260  | 664,000 1010  |   |   |   |   |
| 230    | 7000             | 8.45             | 998,000 1570   | 870,000 1470  | 754,000 1230  | 524,000 870   |   |   |   |
| 247    | 7500             | 9.71             | 1,000,000 2020   | 974,000 1930  | 894,000 1720  | 768,000 1400  |   |   |   |
| 263    | 8000             | 11.04            | 1,100,000 2520   | 1,070,000 2440  | 1,010,000 2260  | 922,000 1990  | 792,000 1700  |   |   |
| 280    | 8500             | 12.48            | 1,190,000 3080   | 1,160,000 3020  | 1,110,000 2840  | 1,050,000 2620  | 956,000 2320  | 824,000 2000  |   |
| 296    | 9000             | 14.00            | 1,270,000 3720   | 1,250,000 3640  | 1,210,000 3500  | 1,150,000 3280  | 1,090,000 3040  | 996,000 2700  | 872,000 2380  |
| 312    | 9500             | 15.58            | 1,360,000 4440   | 1,340,000 4380  | 1,300,000 4220  | 1,250,000 4020  | 1,200,000 3780  | 1,130,000 3480  | 1,060,000 3160  |
| 329    | 10000            | 17.27            | 1,440,000 5200   | 1,430,000 5160  | 1,390,000 5020  | 1,350,000 4820  | 1,310,000 4600  | 1,250,000 4360  | 1,180,000 4040  |

# Double Inlet Size "W" Supervane Fan—Design 1 Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.<br>Static Pressure 1" Water .0722 ozs. per sq. inch | H.P.   | Volume C.F.M.<br>Static Pressure 1½" Water .145 ozs. per sq. inch | H.P.   | Volume C.F.M.<br>Static Pressure 2" Water .217 ozs. per sq. inch | H.P.   | Volume C.F.M.<br>Static Pressure 2½" Water .289 ozs. per sq. inch | H.P.      | Volume C.F.M.<br>Static Pressure 3" Water .361 ozs. per sq. inch | H.P.      | Volume C.F.M.<br>Static Pressure 3½" Water .434 ozs. per sq. inch | H.P.      | Volume C.F.M.<br>Static Pressure 4" Water .506 ozs. per sq. inch | H.P. |
|--------|------------------|------------------|---|--|---|--|--|--|---|-----------|--|-----------|---|-----------|--|------|
| 30     | 1010             | 0 176            | 91,800  | 3 2  |   |  |  |  |   |           |  |           |   |           |  |      |
| 36     | 1200             | 0 219            | 176,000   | 8.7  |   |  |  |  |   |           |  |           |   |           |  |      |
| 42     | 1400             | 0 338            | 226,000   | 15.5   |   |  |  |  |   |           |  |           |   |           |  |      |
| 48     | 1600             | 0 441            | 268,000   | 25   | 218,000   | 19   |  |  |   |           |  |           |   |           |  |      |
| 54     | 1800             | 0 559            | 312,000   | 37   | 278,000   | 31   | 196,000  | 21   |   |           |  |           |   |           |  |      |
| 60     | 2000             | 0 690            | 350,000   | 50   | 326,000   | 46   | 280,000  | 38   |   |           |  |           |   |           |  |      |
| 66     | 2200             | 0 835            | 392,000   | 68   | 370,000   | 64   | 340,000  | 58   | 286,000   | 46        |  |           |   |           |  |      |
| 72     | 2400             | 0 994            |   |  | 412,000   | 86   | 398,000  | 80   | 352,000   | 70        | 286,000  | 56        |   |           |  |      |
| 78     | 2600             | 1 17             |   |  | 456,000   | 110  | 434,000  | 105  | 406,000   | 96        | 368,000  | 84        | 306,000   | 70        |  |      |
| 84     | 2800             | 1 35             |   |  | 494,000   | 140  | 472,000  | 130  | 454,000   | 130       | 428,000  | 115       | 388,000   | 105       | 326,000  | 86   |
| 90     | 3000             | 1 55             |   |  | 532,000   | 170  | 516,000  | 170  | 500,000   | 160       | 478,000  | 150       | 448,000   | 140       | 412,000  | 125  |
| 96     | 3200             | 1 77             |   |  | 570,000   | 210  | 558,000  | 210  | 542,000   | 200       | 524,000  | 190       | 502,000   | 180       | 474,000  | 170  |
| 102    | 3400             | 2 00             |   |  |   |  | 598,000  | 250  | 584,000   | 240       | 568,000  | 240       | 548,000   | 230       | 530,000  | 210  |
| 107    | 3600             | 2 24             |   |  |   |  | 638,000  | 300  | 624,000   | 290       | 612,000  | 290       | 596,000   | 280       | 576,000  | 260  |
| 113    | 3800             | 2 49             |   |  |   |  | 676,000  | 350  | 664,000   | 350       | 652,000  | 340       | 638,000   | 330       | 622,000  | 320  |
| 119    | 4000             | 2 76             |   |  |   |  |  |  | 704,000   | 410       | 694,000  | 400       | 680,000   | 390       | 668,000  | 380  |
| 125    | 4200             | 3 04             |   |  |   |  |  |  | 744,000   | 470       | 734,000  | 470       | 722,000   | 460       | 712,000  | 450  |
| 131    | 4400             | 3 34             |   |  |   |  |  |  | 784,000   | 550       | 774,000  | 540       | 764,000   | 540       | 752,000  | 530  |
| 137    | 4600             | 3 65             |   |  |   |  |  |  |   |           | 812,000  | 630       | 802,000   | 610       | 794,000  | 610  |
| 143    | 4800             | 3 98             |   |  |   |  |  |  |   |           | 850,000  | 710       | 842,000   | 700       | 836,000  | 700  |
| 149    | 5000             | 4 31             |   |  |   |  |  |  |   |           | 890,000  | 800       | 884,000   | 800       | 874,000  | 790  |
| 157    | 5250             | 4 76             |   |  |   |  |  |  |   |           |  |           | 930,000   | 930       | 924,000  | 930  |
| 164    | 5500             | 5 22             |   |  |   |  |  |  |   |           |  |           | 980,000   | 1080      | 972,000  | 1060 |
| 172    | 5750             | 5 71             |   |  |   |  |  |  |   |           |  |           |   |           | 1,022,000  | 1220 |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .078 ozs. per sq. inch                   | Static Pressure 1½" Water .173 ozs. per sq. inch | Static Pressure 2" Water .258 ozs. per sq. inch                   | Static Pressure 2½" Water .341 ozs. per sq. inch | Static Pressure 3" Water .424 ozs. per sq. inch                  | Static Pressure 3½" Water .507 ozs. per sq. inch | Static Pressure 4" Water .590 ozs. per sq. inch                   |           |  |           |   |           |  |      |
| 90     | 3000             | 1 55             | 352,000   | 110  |   |  |  |  |   |           |  |           |   |           |  |      |
| 96     | 3200             | 1 77             | 438,000   | 150  | 206,000   | 105  |  |  |   |           |  |           |   |           |  |      |
| 102    | 3400             | 2 00             | 500,000   | 200  | 418,000   | 160  |  |  |   |           |  |           |   |           |  |      |
| 107    | 3600             | 2 24             | 556,000   | 250  | 494,000   | 210  | 392,000  | 170  |   |           |  |           |   |           |  |      |
| 113    | 3800             | 2 49             | 604,000   | 270  | 500,000   | 280  | 490,000  | 240  | 360,000   | 175       |  |           |   |           |  |      |
| 119    | 4000             | 2 76             | 652,000   | 370  | 613,000   | 340  | 568,000  | 310  | 480,000   | 260       |  |           |   |           |  |      |
| 125    | 4200             | 3 04             | 696,000   | 440  | 666,000   | 410  | 628,000  | 380  | 564,000   | 330       | 476,000  | 280       |   |           |  |      |
| 131    | 4400             | 3 34             | 742,000   | 520  | 714,000   | 490  | 680,000  | 460  | 632,000   | 420       | 570,000  | 370       |   |           |  |      |
| 137    | 4600             | 3 65             | 784,000   | 600  | 758,000   | 570  | 728,000  | 540  | 694,000   | 510       | 644,000  | 460       |   |           |  |      |
| 143    | 4800             | 3 98             | 828,000   | 690  | 800,000   | 660  | 774,000  | 630  | 746,000   | 600       | 706,000  | 560       |   |           |  |      |
| 149    | 5000             | 4 31             | 866,000   | 790  | 846,000   | 760  | 822,000  | 730  | 794,000   | 700       | 764,000  | 660       |   |           |  |      |
| 157    | 5250             | 4 76             | 916,000   | 920  | 898,000   | 910  | 876,000  | 870  | 854,000   | 840       | 828,000  | 800       |   |           |  |      |
| 164    | 5500             | 5 22             | 964,000   | 1060   | 948,000   | 1040   | 932,000  | 1020   | 910,000   | 990       | 886,000  | 950       |   |           |  |      |
| 172    | 5750             | 5 71             | 1,014,000   | 1220   | 1,000,000   | 1200   | 984,000  | 1180   | 964,000   | 1150      | 944,000  | 1120      |   |           |  |      |
| 179    | 6000             | 6 21             | 1,062,000   | 1380   | 1,050,000   | 1370   | 1,036,000  | 1350   | 1,020,000   | 1320      | 1,000,000  | 1290      |   |           |  |      |
| 187    | 6250             | 6 74             | 1,112,000   | 1570   | 1,100,000   | 1560   | 1,084,000  | 1530   | 1,070,000   | 1520      | 1,050,000  | 1480      |   |           |  |      |
| 194    | 6500             | 7 29             |   |  | 1,148,000   | 1760   | 1,136,000  | 1730   | 1,120,000   | 1720      | 1,110,000  | 1690      |   |           |  |      |
| 202    | 6750             | 7 86             |   |  | 1,196,000   | 1980   | 1,194,000  | 1950   | 1,170,000   | 1930      | 1,160,000  | 1910      |   |           |  |      |
| 209    | 7000             | 8 45             |   |  | 1,244,000   | 2200   | 1,236,000  | 2180   | 1,220,000   | 2180      | 1,210,000  | 2140      |   |           |  |      |
| 224    | 7500             | 9 71             |   |  |   |  | 1,330,000  | 2720   | 1,320,000   | 2700      | 1,310,000  | 2660      |   |           |  |      |
| 239    | 8000             | 11 04            |   |  |   |  |  |  | 1,420,000   | 3300      | 1,410,000  | 3260      |   |           |  |      |
| 254    | 8500             | 12 48            |   |  |   |  |  |  | 1,518,000   | 3960      | 1,510,000  | 3940      |   |           |  |      |
| 269    | 9000             | 14 00            |   |  |   |  |  |  |   |           | 1,600,000  | 4680      |   |           |  |      |
| 284    | 9500             | 15 58            |   |  |   |  |  |  |   |           |  |           | 1,590,000   | 4660      |  |      |
| 299    | 10000            | 17 27            |   |  |   |  |  |  |   |           |  |           | 1,680,000   | 5520      |  |      |
|        |                  |                  |   |  |   |  |  |  |   |           |  |           | 1,780,000   | 6440      |  |      |
|        |                  |                  |   |  |   |  |  |  |   |           |  |           |   |           | 1,770,000  | 6380 |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 3½" Water 2.02 ozs. per sq. inch                  | Static Pressure 4" Water 2.31 ozs. per sq. inch  | Static Pressure 5" Water 2.89 ozs. per sq. inch                   | Static Pressure 6" Water 3.47 ozs. per sq. inch  | Static Pressure 7" Water 4.05 ozs. per sq. inch                  | Static Pressure 8" Water 4.63 ozs. per sq. inch  | Static Pressure 9" Water 5.2 ozs. per sq. inch                    |           |  |           |   |           |  |      |
| 164    | 5500             | 5 22             | 598,000   | 610  |   |  |  |  |   |           |  |           |   |           |  |      |
| 172    | 5750             | 5 71             | 726,000   | 800  | 554,000   | 620  |  |  |   |           |  |           |   |           |  |      |
| 179    | 6000             | 6 21             | 822,000   | 990  | 706,000   | 850  |  |  |   |           |  |           |   |           |  |      |
| 187    | 6250             | 6 74             | 904,000   | 1200   | 818,000   | 1060   |  |  |   |           |  |           |   |           |  |      |
| 194    | 6500             | 7 29             | 978,000   | 1430   | 908,000   | 1290   | 606,000  | 950  |   |           |  |           |   |           |  |      |
| 202    | 6750             | 7 86             | 1,040,000   | 1660   | 988,000   | 1540   | 808,000  | 1230   |   |           |  |           |   |           |  |      |
| 209    | 7000             | 8 45             | 1,110,000   | 1910   | 1,060,000   | 1790   | 918,000  | 1500   | 636,000   | 1060      |  |           |   |           |  |      |
| 224    | 7500             | 9 71             | 1,220,000   | 2460   | 1,190,000   | 2390   | 1,090,000  | 2100   | 936,000   | 1700      |  |           |   |           |  |      |
| 239    | 8000             | 11 04            | 1,340,000   | 3060   | 1,300,000   | 2980   | 1,230,000  | 2740   | 1,120,000   | 2420      |  |           |   |           |  |      |
| 254    | 8500             | 12 48            | 1,440,000   | 3760   | 1,420,000   | 3680   | 1,350,000  | 3460   | 1,270,000   | 3180      |  |           |   |           |  |      |
| 269    | 9000             | 14 00            | 1,540,000   | 4540   | 1,530,000   | 4440   | 1,470,000  | 4260   | 1,400,000   | 3980      |  |           |   |           |  |      |
| 284    | 9500             | 15 58            | 1,650,000   | 5400   | 1,630,000   | 5320   | 1,580,000  | 5140   | 1,530,000   | 4880      |  |           |   |           |  |      |
| 299    | 10000            | 17 27            | 1,750,000   | 6340   | 1,740,000   | 6280   | 1,690,000  | 6120   | 1,640,000   | 5880      |  |           |   |           |  |      |
|        |                  |                  |   |  |   |  |  |  |   | 1,590,000 | 5600   |           |   |           |  |      |
|        |                  |                  |   |  |   |  |  |  |   |           |  | 1,530,000 | 5300  |           |  |      |
|        |                  |                  |   |  |   |  |  |  |   |           |  |           |   | 1,440,000 | 4920   |      |

# Double Inlet Size "X" Supervane Fan—Design 1 Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M. H.P. Static Pressure 1/2" Water .0722 ozs. per sq. inch | Volume C.F.M. H.P. Static Pressure 1" Water .145 ozs. per sq. inch | Volume C.F.M. H.P. Static Pressure 1 1/2" Water .217 ozs. per sq. inch | Volume C.F.M. H.P. Static Pressure 2" Water .289 ozs. per sq. inch | Volume C.F.M. H.P. Static Pressure 2 1/2" Water .361 ozs. per sq. inch | Volume C.F.M. H.P. Static Pressure 3" Water .434 ozs. per sq. inch | Volume C.F.M. H.P. Static Pressure 3 1/2" Water .506 ozs. per sq. inch |
|--------|------------------|------------------|---|--|--|--|--|--|--|
| 28     | 1010             | 0 176            | 110,000 3 8   |  |  |  |  |  |  |
| 33     | 1200             | 0 219            | 210,000 10  |  |  |  |  |  |  |
| 38     | 1400             | 0 338            | 272,000 19  |  |  |  |  |  |  |
| 44     | 1600             | 0 411            | 320,000 30  | 262,000 22   |  |  |  |  |  |
| 49     | 1800             | 0 559            | 374,000 41  | 332,000 38   | 234,000 26   |  |  |  |  |
| 55     | 2000             | 0 690            | 418,000 60  | 390,000 56   | 336,000 44   |  |  |  |  |
| 60     | 2200             | 0 835            | 470,000 82  | 444,000 78   | 406,000 68   | 342,000 54   |  |  |  |
| 65     | 2400             | 0 994            |   | 494,000 105  | 461,000 96   | 422,000 81   | 342,000 66   |  |  |
| 71     | 2600             | 1 17             |   | 546,000 130  | 518,000 130  | 486,000 115  | 440,000 100  | 366,000 84   |  |
| 76     | 2800             | 1 35             |   | 590,000 170  | 566,000 160  | 544,000 150  | 512,000 140  | 461,000 125  | 390,000 105  |
| 82     | 3000             | 1 55             |   | 638,000 210  | 618,000 200  | 598,000 190  | 572,000 180  | 536,000 170  | 490,000 150  |
| 87     | 3200             | 1 77             |   | 682,000 250  | 668,000 250  | 648,000 240  | 626,000 230  | 600,000 220  | 566,000 200  |
| 93     | 3400             | 2 00             |   |  | 714,000 300  | 700,000 290  | 680,000 280  | 656,000 270  | 634,000 260  |
| 98     | 3600             | 2 24             |   |  | 764,000 360  | 746,000 350  | 732,000 340  | 712,000 330  | 690,000 320  |
| 104    | 3800             | 2 49             |   |  | 808,000 420  | 796,000 420  | 780,000 410  | 764,000 400  | 744,000 380  |
| 109    | 4000             | 2 76             |   |  |  | 842,000 490  | 830,000 480  | 814,000 470  | 798,000 460  |
| 115    | 4200             | 3 04             |   |  |  | 890,000 570  | 880,000 560  | 861,000 550  | 850,000 540  |
| 120    | 4400             | 3 34             |   |  |  | 938,000 660  | 926,000 650  | 914,000 640  | 900,000 630  |
| 125    | 4600             | 3 65             |   |  |  |  | 972,000 750  | 960,000 740  | 948,000 730  |
| 131    | 4800             | 3 98             |   |  |  |  | 1,020,000 850  | 1,010,000 840  | 1,000,000 830  |
| 136    | 5000             | 4 31             |   |  |  |  | 1,060,000 960  | 1,060,000 960  | 1,050,000 950  |
| 143    | 5250             | 4 76             |   |  |  |  |  | 1,110,000 1120   | 1,100,000 1110   |
| 150    | 5500             | 5 22             |   |  |  |  |  | 1,170,000 1290   | 1,160,000 1270   |
| 157    | 5750             | 5 71             |   |  |  |  |  |  | 1,220,000 1460   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 ozs. per sq. inch                       | Static Pressure 1 1/2" Water .723 ozs. per sq. inch                | Static Pressure 1 1/2" Water .878 ozs. per sq. inch                    | Static Pressure 2" Water 1.01 ozs. per sq. inch                    | Static Pressure 2 1/2" Water 1.16 ozs. per sq. inch                    | Static Pressure 3" Water 1.42 ozs. per sq. inch                    | Static Pressure 3 1/2" Water 1.73 ozs. per sq. inch                    |
| 82     | 3000             | 1 55             | 422,000 130   |  |  |  |  |  |  |
| 87     | 3200             | 1 77             | 524,000 180   | 354,000 125  |  |  |  |  |  |
| 93     | 3400             | 2 00             | 600,000 240   | 500,000 190  |  |  |  |  |  |
| 98     | 3600             | 2 24             | 664,000 300   | 592,000 260  | 468,000 200  |  |  |  |  |
| 104    | 3800             | 2 49             | 724,000 370   | 638,000 330  | 596,000 280  | 434,000 210  |  |  |  |
| 109    | 4000             | 2 76             | 780,000 440   | 731,000 410  | 678,000 370  | 576,000 310  |  |  |  |
| 115    | 4200             | 3 04             | 834,000 520   | 796,000 490  | 752,000 450  | 674,000 400  | 570,000 340  |  |  |
| 120    | 4400             | 3 34             | 888,000 620   | 854,000 590  | 812,000 550  | 750,000 500  | 682,000 440  |  |  |
| 125    | 4600             | 3 65             | 938,000 720   | 906,000 690  | 870,000 650  | 830,000 600  | 770,000 550  |  |  |
| 131    | 4800             | 3 98             | 990,000 830   | 958,000 790  | 926,000 760  | 890,000 720  | 844,000 670  | 568,000 410  |  |
| 136    | 5000             | 4 31             | 1,036,000 940   | 1,012,000 910  | 982,000 880  | 950,000 840  | 912,000 790  | 700,000 540  |  |
| 143    | 5250             | 4 76             | 1,096,000 1100  | 1,074,000 1090   | 1,048,000 1040   | 1,020,000 1000   | 990,000 960  | 902,000 840  | 588,000 500  |
| 150    | 5500             | 5 22             | 1,156,000 1270  | 1,136,000 1250   | 1,114,000 1220   | 1,090,000 1180   | 1,060,000 1140   | 984,000 1030   | 762,000 700  |
| 157    | 5750             | 5 71             | 1,212,000 1460  | 1,196,000 1430   | 1,178,000 1410   | 1,150,000 1380   | 1,130,000 1330   | 1,070,000 1240   | 886,000 900  |
| 164    | 6000             | 6 21             | 1,272,000 1650  | 1,256,000 1640   | 1,238,000 1620   | 1,220,000 1580   | 1,200,000 1550   | 1,140,000 1450   | 1,080,000 1340   |
| 171    | 6250             | 6 74             | 1,330,000 1880  | 1,316,000 1870   | 1,298,000 1840   | 1,280,000 1810   | 1,260,000 1770   | 1,210,000 1680   | 1,160,000 1570   |
| 177    | 6500             | 7 29             |   | 1,372,000 2100   | 1,360,000 2080   | 1,340,000 2080   | 1,320,000 2020   | 1,280,000 1920   | 1,230,000 1830   |
| 184    | 6750             | 7 86             |   | 1,432,000 2360   | 1,418,000 2340   | 1,400,000 2300   | 1,380,000 2280   | 1,350,000 2200   | 1,300,000 2100   |
| 191    | 7000             | 8 45             |   | 1,490,000 2640   | 1,476,000 2620   | 1,460,000 2600   | 1,450,000 2560   | 1,410,000 2480   | 1,370,000 2400   |
| 205    | 7500             | 9 71             |   |  | 1,592,000 3240   | 1,580,000 3220   | 1,570,000 3180   | 1,540,000 3140   | 1,500,000 3060   |
| 218    | 8000             | 11 04            |   |  |  | 1,700,000 3960   | 1,680,000 3900   | 1,660,000 3860   | 1,630,000 3780   |
| 232    | 8500             | 12 48            |   |  |  | 1,816,000 4740   | 1,800,000 4720   | 1,780,000 4680   | 1,750,000 4600   |
| 246    | 9000             | 14 00            |   |  |  |  | 1,920,000 5620   | 1,900,000 5580   | 1,880,000 5500   |
| 259    | 9500             | 15 58            |   |  |  |  |  | 2,020,000 6600   | 2,000,000 6520   |
| 273    | 10000            | 17 27            |   |  |  |  |  | 2,140,000 7720   | 2,120,000 7620   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 3 1/2" Water 2.02 ozs. per sq. inch                   | Static Pressure 4" Water 2.31 ozs. per sq. inch                    | Static Pressure 5" Water 2.89 ozs. per sq. inch                        | Static Pressure 6" Water 3.47 ozs. per sq. inch                    | Static Pressure 7" Water 4.05 ozs. per sq. inch                        | Static Pressure 8" Water 4.63 ozs. per sq. inch                    | Static Pressure 9" Water 5.2 ozs. per sq. inch                         |
| 150    | 5500             | 5 22             | 716,000 730   |  |  |  |  |  |  |
| 157    | 5750             | 5 71             | 868,000 960   | 664,000 740  |  |  |  |  |  |
| 164    | 6000             | 6 21             | 982,000 1190  | 844,000 1020   |  |  |  |  |  |
| 171    | 6250             | 6 74             | 1,080,000 1440  | 978,000 1280   |  |  |  |  |  |
| 177    | 6500             | 7 29             | 1,170,000 1710  | 1,090,000 1540   | 796,000 1140   |  |  |  |  |
| 184    | 6750             | 7 86             | 1,250,000 1980  | 1,180,000 1840   | 966,000 1480   |  |  |  |  |
| 191    | 7000             | 8 45             | 1,320,000 2280  | 1,270,000 2140   | 1,100,000 1790   | 762,000 1270   |  |  |  |
| 205    | 7500             | 9 71             | 1,460,000 2940  | 1,420,000 2820   | 1,300,000 2500   | 1,120,000 2040   |  |  |  |
| 218    | 8000             | 11 04            | 1,600,000 3680  | 1,560,000 3560   | 1,470,000 3280   | 1,340,000 2900   | 1,150,000 2480   |  |  |
| 232    | 8500             | 12 48            | 1,730,000 4500  | 1,700,000 4400   | 1,620,000 4140   | 1,520,000 3800   | 1,390,000 3380   | 1,200,000 2620   |  |
| 246    | 9000             | 14 00            | 1,850,000 5420  | 1,830,000 5320   | 1,760,000 5100   | 1,680,000 4760   | 1,590,000 4440   | 1,450,000 3920   | 1,270,000 3460   |
| 259    | 9500             | 15 58            | 1,970,000 6460  | 1,950,000 6380   | 1,890,000 6140   | 1,830,000 5840   | 1,750,000 5500   | 1,650,000 5080   | 1,520,000 4600   |
| 273    | 10000            | 17 27            | 2,100,000 7580  | 2,080,000 7500   | 2,020,000 7320   | 1,960,000 7040   | 1,900,000 6700   | 1,830,000 6340   | 1,720,000 5880   |



# Double Inlet Size "Y" Supervane Fan—Design 1 Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.                                       | H.P.  | Volume C.F.M.                                       | H.P.  | Volume C.F.M.                                   | H.P.  | Volume C.F.M.                                       | H.P. | Volume C.F.M.                                   | H.P. | Volume C.F.M.                                       | H.P. | Volume C.F.M.                                   | H.P. |
|--------|------------------|------------------|---|---|---|---|---|---|---|------|---|------|---|------|---|------|
|        |                  |                  | Static Pressure 1" Water .0722 ozs. per sq. inch    |   | Static Pressure 1 1/2" Water .145 ozs. per sq. inch |   | Static Pressure 2" Water .217 ozs. per sq. inch |   | Static Pressure 2 1/2" Water .289 ozs. per sq. inch |      | Static Pressure 3" Water .361 ozs. per sq. inch |      | Static Pressure 3 1/2" Water .434 ozs. per sq. inch |      | Static Pressure 4" Water .506 ozs. per sq. inch |      |
| 25     | 1010             | 0 176            | 129,000   | 4 7   |   |   |   |   |   |      |   |      |   |      |   |      |
| 30     | 1200             | 0 219            | 216,000   | 12  |   |   |   |   |   |      |   |      |   |      |   |      |
| 35     | 1400             | 0 338            | 320,000   | 22  |   |   |   |   |   |      |   |      |   |      |   |      |
| 40     | 1600             | 0 411            | 378,000   | 35  | 308,000   | 26  |   |   |   |      |   |      |   |      |   |      |
| 45     | 1800             | 0 559            | 410,000   | 52  | 392,000   | 41  | 276,000   | 30  |   |      |   |      |   |      |   |      |
| 50     | 2000             | 0 690            | 492,000   | 72  | 460,000   | 66  | 396,000   | 51  |   |      |   |      |   |      |   |      |
| 55     | 2200             | 0 835            | 552,000   | 96  | 522,000   | 90  | 478,000   | 80  | 402,000   | 64   |   |      |   |      |   |      |
| 60     | 2400             | 0 994            |   |   | 582,000   | 120   | 546,000   | 110   | 498,000   | 98   | 402,000   | 78   |   |      |   |      |
| 65     | 2600             | 1 17             |   |   | 614,000   | 155   | 610,000   | 150   | 572,000   | 135  | 520,000   | 120  | 432,000   | 98   |   |      |
| 70     | 2800             | 1 35             |   |   | 694,000   | 195   | 666,000   | 190   | 640,000   | 175  | 602,000   | 165  | 548,000   | 145  | 460,000   | 120  |
| 75     | 3000             | 1 55             |   |   | 750,000   | 240   | 728,000   | 240   | 704,000   | 230  | 672,000   | 210  | 632,000   | 195  | 580,000   | 175  |
| 80     | 3200             | 1 77             |   |   | 804,000   | 300   | 786,000   | 290   | 764,000   | 280  | 738,000   | 270  | 706,000   | 250  | 668,000   | 230  |
| 85     | 3400             | 2 00             |   |   |   |   | 810,000   | 350   | 822,000   | 340  | 800,000   | 330  | 774,000   | 320  | 746,000   | 300  |
| 90     | 3600             | 2 24             |   |   |   |   | 900,000   | 420   | 880,000   | 420  | 862,000   | 400  | 840,000   | 390  | 812,000   | 370  |
| 95     | 3800             | 2 49             |   |   |   |   | 952,000   | 500   | 938,000   | 490  | 918,000   | 480  | 900,000   | 470  | 878,000   | 450  |
| 101    | 4000             | 2 76             |   |   |   |   |   |   | 992,000   | 580  | 976,000   | 570  | 960,000   | 560  | 940,000   | 540  |
| 106    | 4200             | 3 01             |   |   |   |   |   |   | 1,050,000   | 670  | 1,030,000                                       | 660  | 1,020,000   | 650  | 1,000,000                                       | 640  |
| 111    | 4400             | 3 34             |   |   |   |   |   |   | 1,100,000   | 770  | 1,090,000                                       | 770  | 1,080,000   | 750  | 1,060,000                                       | 740  |
| 116    | 4600             | 3 65             |   |   |   |   |   |   |   |      | 1,150,000                                       | 880  | 1,130,000   | 870  | 1,120,000                                       | 860  |
| 121    | 4800             | 3 98             |   |   |   |   |   |   |   |      | 1,200,000                                       | 1000 | 1,190,000   | 990  | 1,180,000                                       | 980  |
| 126    | 5000             | 4 31             |   |   |   |   |   |   |   |      | 1,250,000                                       | 1130 | 1,250,000   | 1130 | 1,230,000                                       | 1120 |
| 132    | 5250             | 4 76             |   |   |   |   |   |   |   |      |   |      | 1,310,000   | 1310 | 1,300,000                                       | 1310 |
| 138    | 5500             | 5 22             |   |   |   |   |   |   |   |      |   |      | 1,380,000   | 1520 | 1,370,000                                       | 1500 |
| 145    | 5750             | 5 71             |   |   |   |   |   |   |   |      |   |      |   |      | 1,440,000                                       | 1720 |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .078 ozs. per sq. inch     | Static Pressure 1 1/2" Water .173 ozs. per sq. inch | Static Pressure 2" Water .278 ozs. per sq. inch     | Static Pressure 2 1/2" Water 1.01 ozs. per sq. inch | Static Pressure 3" Water 1.16 ozs. per sq. inch | Static Pressure 3 1/2" Water 1.45 ozs. per sq. inch | Static Pressure 4" Water 1.73 ozs. per sq. inch     |      |   |      |   |      |   |      |
| 75     | 3000             | 1 55             | 498,000   | 150   |   |   |   |   |   |      |   |      |   |      |   |      |
| 80     | 3200             | 1 77             | 616,000   | 210   | 416,000   | 145   |   |   |   |      |   |      |   |      |   |      |
| 85     | 3400             | 2 00             | 706,000   | 280   | 588,000   | 230   |   |   |   |      |   |      |   |      |   |      |
| 90     | 3600             | 2 24             | 784,000   | 350   | 696,000   | 300   | 552,000   | 240   |   |      |   |      |   |      |   |      |
| 95     | 3800             | 2 49             | 852,000   | 430   | 788,000   | 390   | 690,000   | 330   | 508,000   | 250  |   |      |   |      |   |      |
| 101    | 4000             | 2 76             | 918,000   | 520   | 866,000   | 480   | 800,000   | 430   | 678,000   | 360  |   |      |   |      |   |      |
| 106    | 4200             | 3 04             | 982,000   | 620   | 938,000   | 580   | 886,000   | 540   | 794,000   | 470  | 670,000   | 400  |   |      |   |      |
| 111    | 4400             | 3 34             | 1,050,000   | 730   | 1,010,000   | 690   | 958,000   | 640   | 890,000   | 590  | 802,000   | 520  |   |      |   |      |
| 116    | 4600             | 3 65             | 1,110,000   | 850   | 1,070,000   | 810   | 1,030,000                                       | 760   | 976,000   | 710  | 908,000   | 640  | 670,000   | 480  |   |      |
| 121    | 4800             | 3 98             | 1,170,000   | 970   | 1,138,000   | 930   | 1,090,000                                       | 890   | 1,050,000   | 840  | 994,000   | 780  | 822,000   | 630  |   |      |
| 126    | 5000             | 4 31             | 1,230,000   | 1110  | 1,190,000   | 1080  | 1,160,000                                       | 1030  | 1,120,000   | 990  | 1,074,000                                       | 930  | 942,000   | 790  | 694,000   | 590  |
| 132    | 5250             | 4 76             | 1,290,000   | 1290  | 1,270,000   | 1280  | 1,230,000                                       | 1220  | 1,204,000   | 1180 | 1,166,000                                       | 1150 | 1,062,000   | 990  | 896,000   | 830  |
| 138    | 5500             | 5 22             | 1,360,000   | 1490  | 1,340,000   | 1470  | 1,310,000                                       | 1440  | 1,282,000   | 1390 | 1,248,000                                       | 1340 | 1,160,000   | 1210 | 1,042,000                                       | 1050 |
| 145    | 5750             | 5 71             | 1,430,000   | 1710  | 1,410,000   | 1690  | 1,390,000                                       | 1660  | 1,360,000   | 1620 | 1,330,000                                       | 1570 | 1,250,000   | 1460 | 1,162,000                                       | 1300 |
| 151    | 6000             | 6 21             | 1,500,000   | 1940  | 1,480,000   | 1930  | 1,460,000                                       | 1910  | 1,436,000   | 1860 | 1,430,000                                       | 1820 | 1,346,000   | 1710 | 1,238,000                                       | 1580 |
| 157    | 6250             | 6 74             | 1,570,000   | 2220  | 1,550,000   | 2200  | 1,530,000                                       | 2160  | 1,510,000   | 2140 | 1,484,000                                       | 2080 | 1,430,000   | 1980 | 1,360,000                                       | 1850 |
| 163    | 6500             | 7 29             |   |   | 1,620,000   | 2480  | 1,600,000                                       | 2440  | 1,580,000   | 2420 | 1,560,000                                       | 2380 | 1,506,000   | 2280 | 1,450,000                                       | 2160 |
| 170    | 6750             | 7 86             |   |   | 1,690,000   | 2780  | 1,670,000                                       | 2760  | 1,650,000   | 2720 | 1,632,000                                       | 2700 | 1,586,000   | 2600 | 1,532,000                                       | 2480 |
| 176    | 7000             | 8 45             |   |   | 1,750,000   | 3100  |   |   | 1,740,000   | 3060 | 1,722,000                                       | 3060 | 1,706,000   | 2940 | 1,612,000                                       | 2820 |
| 188    | 7500             | 9 71             |   |   |   |   | 1,874,000                                       | 3820  |   |      | 1,862,000                                       | 3800 | 1,848,000   | 3760 | 1,814,000                                       | 3600 |
| 201    | 8000             | 11 04            |   |   |   |   |   |   | 2,000,000   | 4640 | 1,982,000                                       | 4600 | 1,958,000   | 4540 | 1,922,000                                       | 4440 |
| 214    | 8500             | 12 48            |   |   |   |   |   |   | 2,140,000   | 5560 | 2,120,000                                       | 5540 | 2,100,000   | 5500 | 2,060,000                                       | 5420 |
| 226    | 9000             | 14 00            |   |   |   |   |   |   |   |      | 2,260,000                                       | 6600 | 2,240,000   | 6560 | 2,220,000                                       | 6480 |
| 239    | 9500             | 15 58            |   |   |   |   |   |   |   |      |   |      | 2,380,000   | 7760 | 2,360,000                                       | 7680 |
| 251    | 10000            | 17 27            |   |   |   |   |   |   |   |      |   |      | 2,500,000   | 9080 | 2,480,000                                       | 8980 |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 3 1/2" Water 2.02 ozs. per sq. inch | Static Pressure 4" Water 2.31 ozs. per sq. inch     | Static Pressure 5" Water 2.89 ozs. per sq. inch     | Static Pressure 6" Water 3.47 ozs. per sq. inch     | Static Pressure 7" Water 4.05 ozs. per sq. inch | Static Pressure 8" Water 4.63 ozs. per sq. inch     | Static Pressure 9" Water 5.2 ozs. per sq. inch      |      |   |      |   |      |   |      |
| 138    | 5500             | 5 22             | 844,000   | 860   |   |   |   |   |   |      |   |      |   |      |   |      |
| 145    | 5750             | 5 71             | 1,020,000   | 1130  | 782,000   | 800   |   |   |   |      |   |      |   |      |   |      |
| 151    | 6000             | 6 21             | 1,156,000   | 1418  | 994,000   | 1200  |   |   |   |      |   |      |   |      |   |      |
| 157    | 6250             | 6 74             | 1,271,000   | 1690  | 1,152,000   | 1500  |   |   |   |      |   |      |   |      |   |      |
| 163    | 6500             | 7 29             | 1,376,000   | 2020  | 1,280,000   | 1810  | 938,000   | 1340  |   |      |   |      |   |      |   |      |
| 170    | 6750             | 7 86             | 1,470,000   | 2340  | 1,390,000   | 2160  | 1,138,000                                       | 1740  |   |      |   |      |   |      |   |      |
| 176    | 7000             | 8 45             | 1,560,000   | 2700  | 1,492,000   | 2520  | 1,292,000                                       | 2120  | 896,000   | 1490 |   |      |   |      |   |      |
| 188    | 7500             | 9 71             | 1,722,000   | 3460  | 1,672,000   | 3320  | 1,534,000                                       | 2940  | 1,318,000   | 2400 |   |      |   |      |   |      |
| 201    | 8000             | 11 04            | 1,880,000   | 4320  | 1,836,000   | 4200  | 1,728,000                                       | 3860  | 1,582,000   | 3400 | 1,356,000                                       | 2920 |   |      |   |      |
| 214    | 8500             | 12 48            | 2,040,000   | 5300  | 1,998,000   | 5180  | 1,906,000                                       | 4860  | 1,794,000   | 4480 | 1,640,000                                       | 3980 | 1,414,000   | 3440 |   |      |
| 226    | 9000             | 14 00            | 2,180,000   | 6400  | 2,160,000   | 6260  | 2,080,000                                       | 6000  | 1,974,000   | 5620 | 1,870,000                                       | 5220 | 1,710,000   | 4620 | 1,496,000                                       | 4080 |
| 239    | 9500             | 15 58            | 2,320,000   | 7600  | 2,300,000   | 7500  | 2,240,000                                       | 7240  | 2,160,000   | 6880 | 2,060,000                                       | 6480 | 1,944,000   | 5900 | 1,794,000                                       | 5420 |
| 251    | 10000            | 17 27            | 2,460,000   | 8920  | 2,440,000   | 8820  | 2,380,000                                       | 8600  | 2,320,000   | 8280 | 2,240,000                                       | 7880 | 2,160,000   | 7460 | 2,040,000                                       | 6920 |

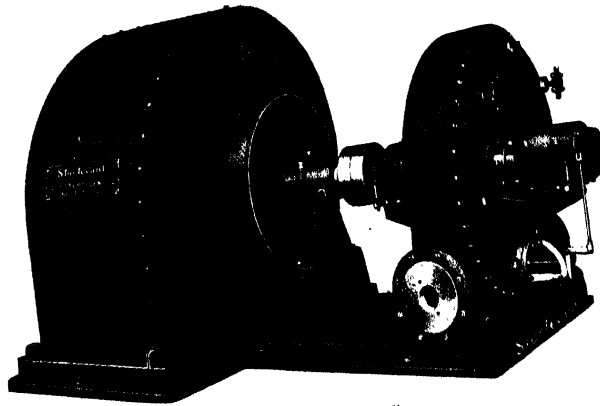
# **TURBOVANE FANS**

## **Design 1**

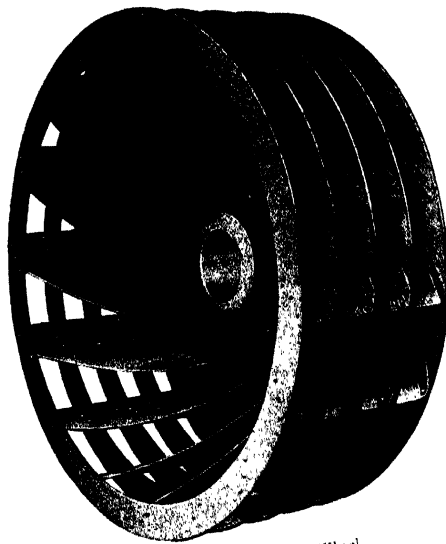
**Dimensions, Capacities, Horse Powers**



## Turbovane Fan—Design 1



Design 1 Turbovane Fan,  
Direct Coupled to Sturtevant Turbine.



Design 1 Turbovane Wheel.

# TURBOVANE FAN—DESIGN 1

## SPECIFICATIONS

**General.** There shall be furnished a No. . . . , Sturtevant Turbovane Fan. It shall be made (single or double) . . . . . inlet, (single or double) . . . . . width, (right or left) . . . . . hand, . . . . . discharge and have (full or  $\frac{3}{8}$ ) . . . . . housing. The wheel shall be not less than . . . . . " diameter, . . . . . " wide. The outlet shall be . . . . . " by . . . . . " , the diameter of the inlet shall be . . . . . " . The total height of the fan housing shall be . . . . . " , the width in direction of shaft . . . . . " , and the length transverse of shaft . . . . . " .

The fan shall have a capacity of . . . . . cubic feet per minute against a resistance of . . . . . " water gauge either at the inlet or at the outlet (or at both taking the sum) and shall operate at approximately . . . . . R.P.M., requiring approximately . . . . . B.H.P.

**Housing.** The housing shall be of spiral form constructed of steel plate strongly braced, bolted and riveted to a rigid frame of angle irons. The side plates and round-about sheet shall be made of No. 11 gauge plate. The outlet shall be rectangular in shape and consist of angle irons bolted to the housing and arranged for connection to a discharge duct. The inlet shall be of cone shape and so constructed as to allow the wheel to be taken out through the opening caused by the removal of the cone. The cutoff piece shall be made of a sheet bent 180 degrees upon itself and having the two ends bolted to the spiral sheet, thus leaving no edges of metal which can in any way be acted upon by the air issuing from the outlet so as to produce vibration, and therefore, noise at this point.

**Wheel.** The blades of the wheel shall be made of refined steel plate. The outer or discharge edge of the blade shall be parallel with the axis of the fan. The inner or intake edge shall be of greatest diameter at the inlet of the wheel and decrease in diameter as the back plate or hub is approached, thus producing a blade of greater depth at the back of the wheel. The blades shall be curved with their convex surface moving forward in rotation, and be of such shape that about two thirds of the depth of the blade from the outer edge in toward the center is formed in the curve of an involute of a circle. The remaining portion shall be formed in the arc of a circle. The blade curvature shall be such as allows the fan to handle the air very efficiently and at a relatively high peripheral speed compared with the pressure produced. The hub shall be made of a solid steel forging riveted to the driving disc and accurately bored and fitted with keyway and set screws. The blades shall be riveted at the end nearest the fan inlet to an annular steel plate ring or side plate, and at the end farthest from the fan inlet to a solid and extra heavy driving disc. The holes through which the blades are riveted to the side plates shall be punched to template as well as the blades themselves to insure the proper position of each blade in the wheel. Equally spaced along the axial length of the outer or discharge edge of the blades shall be placed two or more annular steel plate rings which add strength and rigidity to the wheel. The wheels shall be very carefully balanced.

**Bearings.** The bearings shall be of the oil tight, dust proof pedestal type, and by means of a spherical seat made self aligning. Each bearing shall be fitted with two oil rings which feed oil on to the shaft from a large oil well located in the bottom of the box. They shall be of large diameter and extra long to give ample bearing surface. Each bearing shall be fitted with oil throwing collars and oil baffles also with a leather gasket around the shaft and at the outboard end which absolutely prevents oil getting out of the bearing or dust getting into it. A small glass window shall be provided which shows the supply of oil in the bearing. The bearing shall be very rugged and heavily built for high speed duty, and lined with the best quality babbitt containing upwards of 85% tin. The bearings shall be carefully bored and scraped to exact size.

**Shaft.** The shaft shall be made of steel forging and after the keyways are cut, shall be accurately turned and ground.

# TURBOVANE FAN—DESIGN 1

## EXPLANATION OF SPECIFICATION REQUIREMENTS

**Noise.** Special attention is called to the construction of the cut-off point, which, considering fans in general, is the seat of most noise in the nature of a sustained metallic note. Obviously, any edge of metal whether directly or indirectly in the flow of air can be acted upon more or less like a reed and the design of cut-off in this fan avoids this condition.

The flow of air over the surfaces in a fan wheel and casing obviously produces any noise which may exist (a fan wheel revolving in a vacuum will produce no noise, assuming of course, proper mechanical balance in the wheel). The noise is also a function of the velocity of flow. In this fan the velocity at all points as the air passes through the wheel is lower than in the general run of fans of this type or as used for this service, thereby operating against the production of noise.

**Provision for Minimizing Losses.** The involute curve of the blade is not carried all the way in to the hub. The change of the curve in near the hub to the arc of a circle increases the port area at this point and also produces a blade shape which is more effective in starting the air through the wheel. By virtue of the involute form of the major part of the blade, the length of a normal from any blade to the adjacent blade will be constant at all points, thereby giving equal area to the passages through the blades and greatly lessening the losses due to eddy currents.

**Distortion.** The heavy annular steel plate rings closely spaced along the outer edge of the blades prevent them from bowing out at high speed and also equalize the discharge of air along the axial length of the blade.

**Strength and Rigidity.** The back plate, inlet side plate, intermediate steel rings, blades and hub are all made exceptionally heavy and assembled by the unsparing use of heavy rivets. This taken with the general design and proportion of the parts combines to produce a rigid and strong construction.

**Wearing Qualities.** Barring the metal of the fan itself being subjected to violent corrosion or chemical action of gases handled by the fan the brunt in the long run is borne by the shaft and bearings. Therefore, for long satisfactory service a shaft which is carefully turned and ground to gauge running in bearings containing a very high quality babbit metal is bound to show its worth.

## **Turbovane Fan—Design 1**

### **EXPLANATION OF TABLES**

The *general* explanation of tables given at the front of this book applies without exception to the following tables.

## **Turbovane Fan—Design 1**

### **APPROXIMATE WEIGHTS**

| <b>Size</b> | <b>Weight<br/>not packed</b> | <b>Size</b> | <b>Weight<br/>not packed</b> |
|-------------|------------------------------|-------------|------------------------------|
| 40          | 380                          | 65          | 1700                         |
| 45          | 570                          | 70          | 2020                         |
| 50          | 940                          | 80          | 2680                         |
| 55          | 1160                         | 90          | 3570                         |
| 60          | 1440                         | 100         | 5160                         |



Double Inlet

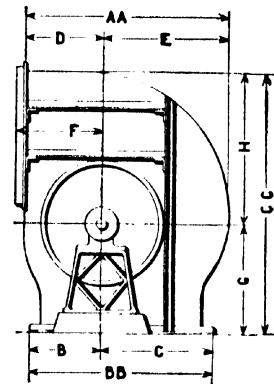
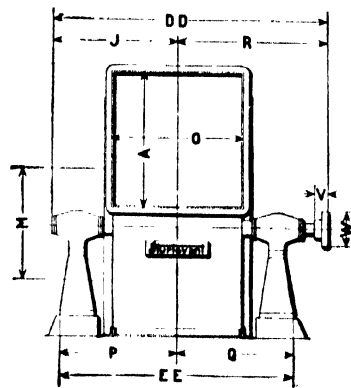
# Turbovane Fan—Design 1

Double Width

Full Housing

Top Horizontal Discharge

Overhung Pulley



| Fan Size | A  | B  | C  | D  | E  | F  | G  | H  | J  | M  | O  | P  | Q  | R  | V                              | W | AA  | BB | CC  | DD  | EE  | Extreme Wheel Dia. | Shaft Diameter | Anchor Bolts Pedestal | Bolts Fan |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--------------------------------|---|-----|----|-----|-----|-----|--------------------|----------------|-----------------------|-----------|
| 40       | 14 | 8  | 11 | 8  | 14 | 10 | 13 | 16 | 17 | 13 | 15 | 15 | 4  | 23 | Depending upon size of Turbine |   | 22  | 19 | 29  | 41  | 31  | 11                 | 2              | 5                     | 1         |
| 45       | 17 | 9  | 14 | 10 | 17 | 12 | 16 | 21 | 19 | 16 | 18 | 18 | 5  | 25 |                                |   | 28  | 23 | 37  | 45  | 36  | 14                 | 2              | 5                     | 1         |
| 50       | 20 | 10 | 17 | 12 | 21 | 14 | 19 | 25 | 25 | 19 | 22 | 22 | 6  | 31 |                                |   | 34  | 28 | 44  | 56  | 44  | 17                 | 2              | 5                     | 1         |
| 55       | 24 | 12 | 20 | 15 | 24 | 16 | 22 | 29 | 27 | 22 | 26 | 24 | 6  | 33 |                                |   | 39  | 33 | 51  | 60  | 49  | 20                 | 3              | 5                     | 1         |
| 60       | 27 | 14 | 23 | 17 | 28 | 19 | 25 | 33 | 29 | 26 | 29 | 27 | 8  | 35 |                                |   | 45  | 38 | 58  | 65  | 55  | 23                 | 3              | 5                     | 1         |
| 65       | 31 | 17 | 27 | 19 | 31 | 21 | 28 | 37 | 31 | 29 | 33 | 29 | 8  | 37 |                                |   | 50  | 45 | 65  | 69  | 59  | 26                 | 4              | 5                     | 1         |
| 70       | 34 | 20 | 31 | 21 | 35 | 23 | 31 | 42 | 33 | 32 | 36 | 31 | 9  | 39 |                                |   | 56  | 52 | 73  | 73  | 63  | 29                 | 5              | 5                     | 1         |
| 80       | 41 | 23 | 36 | 25 | 42 | 27 | 37 | 50 | 40 | 39 | 44 | 37 | 10 | 46 |                                |   | 67  | 60 | 87  | 86  | 75  | 34                 | 5              | 7                     | 1         |
| 90       | 48 | 27 | 42 | 29 | 49 | 32 | 43 | 58 | 44 | 45 | 51 | 42 | 11 | 50 |                                |   | 79  | 70 | 101 | 94  | 84  | 40                 | 6              | 7                     | 1         |
| 100      | 54 | 30 | 47 | 34 | 56 | 36 | 49 | 67 | 52 | 52 | 58 | 49 | 12 | 60 |                                |   | 90  | 78 | 116 | 112 | 99  | 46                 | 7              | 1                     | 1         |
| 110      | 61 | 34 | 53 | 38 | 63 | 40 | 55 | 75 | 56 | 58 | 66 | 53 | 13 | 63 |                                |   | 101 | 87 | 130 | 120 | 107 | 51                 | 7              | 1                     | 1         |
| 120      | 68 | 37 | 59 | 42 | 70 | 45 | 61 | 83 | 60 | 65 | 73 | 58 | 14 | 67 |                                |   | 112 | 96 | 144 | 128 | 116 | 57                 | 8              | 1                     | 1         |

Double Inlet

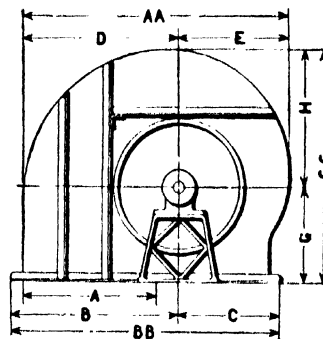
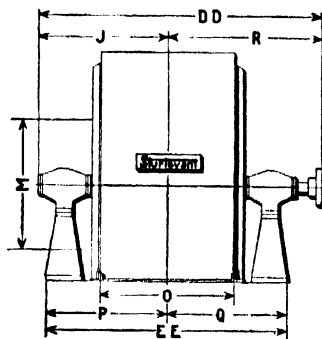
# Turovane Fan—Design 1

Double Width

Full Housing

Down Blast Discharge

Overhung Pulley



| Fan Size | A      | B      | C      | D      | E      | G      | H      | J      | M      | O      | P      | Q      | R | V | W | AA      | BB      | CC      | DD      | EE      | Extreme Wheel Diameter | Shaft Dia. | Anchor Bolts Pedestal | Anchor Bolts Fan |
|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---|---|---|---------|---------|---------|---------|---------|------------------------|------------|-----------------------|------------------|
| 40       | 13 1/8 | 18 1/8 | 12 1/8 | 16 1/8 | 11 1/8 | 11 1/8 | 17 1/8 | 13 1/8 | 14 1/8 | 15 1/8 | 15 1/8 | 23 1/8 |   |   |   | 28 1/8  | 30 1/8  | 25 1/8  | 41 1/8  | 31 1/8  | 11 1/8                 | 2 1/8      | 2                     | 1                |
| 45       | 16 1/8 | 23 1/8 | 14 1/8 | 21 1/8 | 14 1/8 | 13 1/8 | 17 1/8 | 19 1/8 | 16 1/8 | 18 1/8 | 18 1/8 | 25 1/8 |   |   |   | 35 1/8  | 37 1/8  | 30 1/8  | 45 1/8  | 36 1/8  | 14 1/8                 | 2 1/8      | 2                     | 1                |
| 50       | 20 1/8 | 27 1/8 | 16 1/8 | 25 1/8 | 17 1/8 | 15 1/8 | 21 1/8 | 25 1/8 | 19 1/8 | 21 1/8 | 22 1/8 | 31 1/8 |   |   |   | 42 1/8  | 44 1/8  | 36 1/8  | 56 1/8  | 44 1/8  | 17 1/8                 | 2 1/8      | 2                     | 1                |
| 55       | 23 1/8 | 31 1/8 | 18 1/8 | 29 1/8 | 19 1/8 | 17 1/8 | 24 1/8 | 27 1/8 | 22 1/8 | 25 1/8 | 24 1/8 | 33 1/8 |   |   |   | 49 1/8  | 50 1/8  | 42 1/8  | 60 1/8  | 49 1/8  | 20 1/8                 | 3 1/8      | 2                     | 1                |
| 60       | 27 1/8 | 36 1/8 | 20 1/8 | 33 1/8 | 22 1/8 | 20 1/8 | 28 1/8 | 29 1/8 | 26 1/8 | 29 1/8 | 27 1/8 | 35 1/8 |   |   |   | 56 1/8  | 56 1/8  | 48 1/8  | 65 1/8  | 55 1/8  | 23 1/8                 | 3 1/8      | 2                     | 1                |
| 65       | 30 1/8 | 41 1/8 | 21 1/8 | 37 1/8 | 25 1/8 | 22 1/8 | 31 1/8 | 31 1/8 | 29 1/8 | 32 1/8 | 29 1/8 | 37 1/8 |   |   |   | 63 1/8  | 65 1/8  | 53 1/8  | 69 1/8  | 59 1/8  | 26 1/8                 | 4 1/8      | 2                     | 1                |
| 70       | 33 1/8 | 45 1/8 | 27 1/8 | 42 1/8 | 28 1/8 | 24 1/8 | 35 1/8 | 33 1/8 | 32 1/8 | 36 1/8 | 31 1/8 | 39 1/8 |   |   |   | 70 1/8  | 73 1/8  | 59 1/8  | 73 1/8  | 63 1/8  | 29 1/8                 | 5 1/8      | 2                     | 1                |
| 80       | 40 1/8 | 53 1/8 | 31 1/8 | 50 1/8 | 33 1/8 | 29 1/8 | 42 1/8 | 40 1/8 | 39 1/8 | 43 1/8 | 37 1/8 | 46 1/8 |   |   |   | 84 1/8  | 85 1/8  | 71 1/8  | 86 1/8  | 75 1/8  | 34 1/8                 | 5 1/8      | 2                     | 1                |
| 90       | 47 1/8 | 63 1/8 | 36 1/8 | 58 1/8 | 39 1/8 | 33 1/8 | 49 1/8 | 41 1/8 | 45 1/8 | 50 1/8 | 42 1/8 | 50 1/8 |   |   |   | 98 1/8  | 99 1/8  | 82 1/8  | 94 1/8  | 84 1/8  | 40 1/8                 | 6 1/8      | 2                     | 1                |
| 100      | 54 1/8 | 71 1/8 | 40 1/8 | 67 1/8 | 45 1/8 | 38 1/8 | 56 1/8 | 52 1/8 | 52 1/8 | 58 1/8 | 49 1/8 | 58 1/8 |   |   |   | 112 1/8 | 112 1/8 | 91 1/8  | 112 1/8 | 99 1/8  | 46 1/8                 | 7 1/8      | 1 1/8                 | 1                |
| 110      | 60 1/8 | 80 1/8 | 45 1/8 | 75 1/8 | 50 1/8 | 42 1/8 | 63 1/8 | 56 1/8 | 58 1/8 | 65 1/8 | 53 1/8 | 63 1/8 |   |   |   | 126 1/8 | 125 1/8 | 105 1/8 | 120 1/8 | 107 1/8 | 51 1/8                 | 7 1/8      | 1 1/8                 | 1                |
| 120      | 67 1/8 | 88 1/8 | 49 1/8 | 83 1/8 | 56 1/8 | 47 1/8 | 70 1/8 | 60 1/8 | 65 1/8 | 72 1/8 | 58 1/8 | 67 1/8 |   |   |   | 140 1/8 | 137 1/8 | 117 1/8 | 128 1/8 | 116 1/8 | 57 1/8                 | 8 1/8      | 1 1/8                 | 1                |

Double Inlet

**No. 40 Turbovane Fan—Design 1**

Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.                                      | H. P. | Volume C.F.M.                                     | H. P. | Volume C.F.M.                                   | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                   | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                   | H. P. |
|--------|------------------|------------------|--|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|
|        |                  |                  | Static Pressure 1/2" Water .0722 ozs. per sq. inch |       | Static Pressure 1/2" Water .285 ozs. per sq. inch |       | Static Pressure 1" Water .578 ozs. per sq. inch |       | Static Pressure 1 1/2" Water .878 ozs. per sq. inch |       | Static Pressure 2" Water 1.16 ozs. per sq. inch |       | Static Pressure 2 1/2" Water 1.45 ozs. per sq. inch |       | Static Pressure 3" Water 1.73 ozs. per sq. inch |       |
| 1292   | 3800             | 0.749            | 1,770  | 0.190 | 935   | 0.145 |   |       |   |       |   |       |   |       |   |       |
| 1361   | 4000             | 0.830            | 1,860  | 0.225 | 1,120   | 0.175 |   |       |   |       |   |       |   |       |   |       |
| 1430   | 4200             | 0.915            | 2,000  | 0.260 | 1,310   | 0.220 |   |       |   |       |   |       |   |       |   |       |
| 1498   | 4400             | 1.00             | 2,110  | 0.300 | 1,480   | 0.260 |   |       |   |       |   |       |   |       |   |       |
| 1566   | 4600             | 1.10             | 2,220  | 0.345 | 1,650   | 0.305 |   |       |   |       |   |       |   |       |   |       |
| 1632   | 4800             | 1.20             | 2,330  | 0.390 | 1,800   | 0.35  |   |       |   |       |   |       |   |       |   |       |
| 1701   | 5000             | 1.30             | 2,450  | 0.445 | 1,940   | 0.40  |   |       |   |       |   |       |   |       |   |       |
| 1787   | 5250             | 1.43             | 2,580  | 0.53  | 2,120   | 0.47  | 1,210   | 0.365 |   |       |   |       |   |       |   |       |
| 1873   | 5500             | 1.57             | 2,720  | 0.60  | 2,280   | 0.55  | 1,440   | 0.44  |   |       |   |       |   |       |   |       |
| 1958   | 5750             | 1.72             | 2,850  | 0.68  | 2,440   | 0.63  | 1,670   | 0.53  |   |       |   |       |   |       |   |       |
| 2040   | 6000             | 1.87             | 2,990  | 0.78  | 2,600   | 0.73  | 1,910   | 0.65  |   |       |   |       |   |       |   |       |
| 2125   | 6250             | 2.03             | 3,130  | 0.88  | 2,740   | 0.80  | 2,120   | 0.75  |   |       |   |       |   |       |   |       |
| 2210   | 6500             | 2.19             | 3,270  | 0.98  | 2,900   | 0.93  | 2,330   | 0.88  | 1,550   | 0.70  |   |       |   |       |   |       |
| 2295   | 6750             | 2.36             | 3,390  | 1.10  | 3,040   | 1.05  | 2,520   | 0.98  | 1,770   | 0.83  |   |       |   |       |   |       |
| 2380   | 7000             | 2.54             | 3,530  | 1.25  | 3,190   | 1.20  | 2,700   | 1.10  | 2,000   | 0.95  |   |       |   |       |   |       |
| 2550   | 7500             | 2.92             | 3,810  | 1.55  | 3,480   | 1.45  | 3,050   | 1.38  | 2,460   | 1.3   | 1,780   | 1.15  |   |       |   |       |

Double Inlet

**No. 45 Turbovane Fan—Design 1**

Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.                                      | H. P. | Volume C.F.M.                                     | H. P. | Volume C.F.M.                                   | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                   | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                   | H. P. |
|--------|------------------|------------------|--|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|
|        |                  |                  | Static Pressure 1/2" Water .0722 ozs. per sq. inch |       | Static Pressure 1/2" Water .285 ozs. per sq. inch |       | Static Pressure 1" Water .578 ozs. per sq. inch |       | Static Pressure 1 1/2" Water .878 ozs. per sq. inch |       | Static Pressure 2" Water 1.16 ozs. per sq. inch |       | Static Pressure 2 1/2" Water 1.45 ozs. per sq. inch |       | Static Pressure 3" Water 1.73 ozs. per sq. inch |       |
| 1033   | 3800             | 0.749            | 2,750  | 0.300 | 1,460   | 0.225 |   |       |   |       |   |       |   |       |   |       |
| 1088   | 4000             | 0.830            | 2,930  | 0.350 | 1,740   | 0.275 |   |       |   |       |   |       |   |       |   |       |
| 1141   | 4200             | 0.915            | 3,120  | 0.405 | 2,040   | 0.340 |   |       |   |       |   |       |   |       |   |       |
| 1195   | 4400             | 1.00             | 3,290  | 0.465 | 2,310   | 0.405 |   |       |   |       |   |       |   |       |   |       |
| 1250   | 4600             | 1.10             | 3,450  | 0.55  | 2,570   | 0.475 |   |       |   |       |   |       |   |       |   |       |
| 1305   | 4800             | 1.20             | 3,630  | 0.60  | 2,800   | 0.55  |   |       |   |       |   |       |   |       |   |       |
| 1360   | 5000             | 1.30             | 3,820  | 0.70  | 3,030   | 0.63  |   |       |   |       |   |       |   |       |   |       |
| 1428   | 5250             | 1.43             | 4,030  | 0.80  | 3,300   | 0.73  | 1,880   | 0.58  |   |       |   |       |   |       |   |       |
| 1496   | 5500             | 1.57             | 4,240  | 0.93  | 3,560   | 0.85  | 2,240   | 0.70  |   |       |   |       |   |       |   |       |
| 1563   | 5750             | 1.72             | 4,450  | 1.05  | 3,800   | 0.93  | 2,410   | 0.83  |   |       |   |       |   |       |   |       |
| 1631   | 6000             | 1.87             | 4,670  | 1.20  | 4,050   | 1.15  | 2,970   | 1.00  |   |       |   |       |   |       |   |       |
| 1700   | 6250             | 2.03             | 4,880  | 1.35  | 4,270   | 1.30  | 3,310   | 1.15  |   |       |   |       |   |       |   |       |
| 1768   | 6500             | 2.19             | 5,100  | 1.55  | 4,520   | 1.45  | 3,630   | 1.35  | 2,410   | 1.10  |   |       |   |       |   |       |
| 1835   | 6750             | 2.36             | 5,300  | 1.70  | 4,740   | 1.65  | 3,930   | 1.50  | 2,760   | 1.80  |   |       |   |       |   |       |
| 1903   | 7000             | 2.54             | 5,500  | 1.90  | 4,970   | 1.85  | 4,210   | 1.70  | 3,120   | 1.50  |   |       |   |       |   |       |
| 2040   | 7500             | 2.92             | 5,950  | 2.40  | 5,400   | 2.30  | 4,750   | 2.15  | 3,840   | 2.00  | 2,780   | 1.75  |   |       |   |       |
| 2175   | 8000             | 3.32             | 6,350  | 2.85  | 5,850   | 2.80  | 5,250   | 2.65  | 4,480   | 2.45  | 3,540   | 2.25  |   |       |   |       |
| 2310   | 8500             | 3.75             | 6,750  | 3.4   | 6,300   | 3.35  | 5,750   | 3.2   | 5,050   | 3.05  | 4,210   | 2.85  | 3,250   | 2.50  |   |       |
| 2445   | 9000             | 4.20             | 7,150  | 4.1   | 6,750   | 4.05  | 6,200   | 3.8   | 5,600   | 3.65  | 4,860   | 3.5   | 4,020   | 3.15  | 3,080   | 2.8   |

### Double Width

**When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances**

[illegible]



Double Inlet

**No. 60 Turbovane Fan — Design 1**

Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| Capacity 1075 lbs. per cubic foot Against Continuously Maintained Resistances |                     |                        |  |   |   |   |  |   |  |       |                  |       |                  |       |                  |       |
|---|---------------------|------------------------|--|---|---|---|--|---|--|-------|------------------|-------|------------------|-------|------------------|-------|
| R.P.M.  | Tip Speed<br>F.P.M. | S.N.D.<br>in<br>inches | Volume<br>C.F.M.   | H. P.   | Volume<br>C.F.M.  | H. P.   | Volume<br>C.F.M.   | H. P.   | Volume<br>C.F.M.   | H. P. | Volume<br>C.F.M. | H. P. | Volume<br>C.F.M. | H. P. | Volume<br>C.F.M. | H. P. |
|   |                     |                        | Static Pressure<br>1½" Water<br>.0722 ozs. per<br>sq. inch | Static Pressure<br>1½" Water<br>.269 ozs. per<br>sq. inch | Static Pressure<br>1½" Water<br>.578 ozs. per<br>sq. inch | Static Pressure<br>1½" Water<br>.878 ozs. per<br>sq. inch | Static Pressure<br>2" Water<br>1.16 ozs. per<br>sq. inch | Static Pressure<br>2½" Water<br>1.45 ozs. per<br>sq. inch | Static Pressure<br>3" Water<br>1.73 ozs. per<br>sq. inch |       |                  |       |                  |       |                  |       |
| 646   | 3800                | 7.19                   | 7,100  | .78   | 3,730   | .58   |  |   |  |       |                  |       |                  |       |                  |       |
| 680   | 4000                | .830                   | 7,500  | .90   | 4,460   | .70   |  |   |  |       |                  |       |                  |       |                  |       |
| 715   | 4200                | .915                   | 8,000  | 1.05  | 5,250   | .88   |  |   |  |       |                  |       |                  |       |                  |       |
| 749   | 4400                | 1.00                   | 8,450  | 1.20  | 5,950   | 1.03  |  |   |  |       |                  |       |                  |       |                  |       |
| 783   | 4600                | 1.10                   | 8,850  | 1.40  | 6,600   | 1.20  |  |   |  |       |                  |       |                  |       |                  |       |
| 816   | 4800                | 1.20                   | 9,300  | 1.55  | 7,200   | 1.40  |  |   |  |       |                  |       |                  |       |                  |       |
| 850   | 5000                | 1.30                   | 9,800  | 1.75  | 7,750   | 1.60  |  |   |  |       |                  |       |                  |       |                  |       |
| 894   | 5250                | 1.43                   | 10,300   | 2.05  | 8,450   | 1.90  | 4,830  | 1.45  |  |       |                  |       |                  |       |                  |       |
| 936   | 5500                | 1.57                   | 10,900   | 2.40  | 9,150   | 2.20  | 5,750  | 1.80  |  |       |                  |       |                  |       |                  |       |
| 978   | 5750                | 1.72                   | 11,400   | 2.70  | 9,750   | 2.50  | 6,700  | 2.15  |  |       |                  |       |                  |       |                  |       |
| 1020  | 6000                | 1.87                   | 12,000   | 3.10  | 10,400  | 2.90  | 7,600  | 2.55  |  |       |                  |       |                  |       |                  |       |
| 1062  | 6250                | 2.03                   | 12,500   | 3.50  | 11,000  | 3.25  | 8,500  | 3.00  |  |       |                  |       |                  |       |                  |       |
| 1101  | 6500                | 2.19                   | 13,100   | 3.95  | 11,600  | 3.7   | 9,300  | 3.45  | 6,150  | 2.80  |                  |       |                  |       |                  |       |
| 1149  | 6750                | 2.36                   | 13,600   | 4.4   | 12,200  | 4.2   | 10,100   | 3.85  | 7,100  | 3.30  |                  |       |                  |       |                  |       |
| 1190  | 7000                | 2.54                   | 14,100   | 4.9   | 12,800  | 4.7   | 10,800   | 4.35  | 8,000  | 3.85  |                  |       |                  |       |                  |       |
| 1277  | 7500                | 2.92                   | 15,200   | 6.0   | 13,900  | 5.8   | 12,200   | 5.5   | 9,850  | 5.0   | 7,100            | 4.5   |                  |       |                  |       |
| 1360  | 8000                | 3.32                   | 16,300   | 7.3   | 15,100  | 7.3   | 13,500   | 6.8   | 11,500   | 6.3   | 9,100            | 5.8   |                  |       |                  |       |
| 1447  | 8500                | 3.75                   | 17,300   | 8.8   | 16,200  | 8.5   | 14,700   | 8.3   | 13,000   | 8.0   | 10,800           | 7.3   | 8,350            | 6.3   |                  |       |
| 1530  | 9000                | 4.20                   | 18,400   | 10.5  | 17,400  | 10.5  | 15,900   | 9.8   | 14,400   | 9.5   | 12,500           | 9.0   | 10,300           | 8.3   | 7,900            | 7.3   |
| 1615  | 9500                | 4.69                   | 19,400   | 12.5  | 18,400  | 12.5  | 17,100   | 12.0  | 15,800   | 11.3  | 14,100           | 11.0  | 12,100           | 10.5  | 9,800            | 9.0   |
| 1700  | 10000               | 5.19                   | 20,500   | 14.5  |   |   | 18,300   | 13.5  | 17,100   | 13.0  | 15,500           | 12.5  | 13,800           | 12.0  | 11,700           | 11.5  |
| 1785  | 10500               | 5.72                   | 21,500   | 16.5  |   |   | 19,500   | 16.0  | 18,200   | 15.5  | 16,900           | 15.0  | 15,400           | 14.5  | 13,600           | 13.5  |
| 1870  | 11000               | 6.28                   | 22,600   | 19  |   |   | 20,600   | 18.5  | 19,500   | 18.0  | 18,300           | 17.5  | 16,800           | 17.0  | 15,300           | 16.5  |
| 1958  | 11500               | 6.86                   | 23,700   | 22  |   |   | 21,700   | 21.0  | 20,700   | 20.5  | 19,500           | 20    | 18,200           | 18.5  | 16,900           | 19    |
| 2040  | 12000               | 7.47                   | 24,800   | 25  |   |   | 22,900   | 24.5  | 21,800   | 23.5  | 20,800           | 23    | 19,600           | 22.5  | 18,300           | 22    |
| 2125  | 12500               | 8.10                   | 25,800   | 28  |   |   | 24,000   | 28  | 23,000   | 27    | 21,900           | 26    | 21,000           | 26    | 19,800           | 25    |
| 2210  | 13000               | 8.76                   | 26,800   | 32  |   |   | 25,100   | 31  | 24,100   | 30    | 23,200           | 30    | 22,200           | 29    | 21,100           | 28    |
| 2295  | 13500               | 9.45                   | 27,850   | 35  |   |   | 26,300   | 35  | 25,200   | 34    | 24,300           | 33    | 23,400           | 33    | 22,400           | 32    |
| 2380  | 14000               | 10.18                  | 28,900   | 39  |   |   | 27,400   | 39  | 26,400   | 38    | 25,500           | 38    | 24,600           | 37    | 23,700           | 36    |
| 2465  | 14500               | 10.90                  | 29,900   | 43  |   |   |  |   | 27,500   | 43    | 26,700           | 42    | 25,800           | 41    | 24,900           | 40    |
| 2555  | 15000               | 11.68                  | 31,100   | 48  |   |   |  |   | 28,600   | 48    | 27,800           | 47    | 26,900           | 46    | 26,100           | 45    |

| R.P.M. | Tip Speed<br>F.P.M. | S.N.D.<br>in<br>inches | Static Pressure<br>3½" Water<br>2.02 ozs. per<br>sq. inch | Static Pressure<br>4" Water<br>2.31 ozs. per<br>sq. inch | Static Pressure<br>4½" Water<br>2.60 ozs. per<br>sq. inch | Static Pressure<br>5" Water<br>2.89 ozs. per<br>sq. inch | Static Pressure<br>6" Water<br>3.47 ozs. per<br>sq. inch | Static Pressure<br>7" Water<br>4.05 ozs. per<br>sq. inch | Static Pressure<br>8" Water<br>4.63 ozs. per<br>sq. inch |      |
|--------|---------------------|------------------------|---|--|---|--|--|--|--|------|
| 1700   | 10000               | 5.19                   | 9,650   | 11.0   |   |  |  |  |  |      |
| 1785   | 10500               | 5.72                   | 11,600  | 12.5   | 9,400   | 11.5   |  |  |  |      |
| 1870   | 11000               | 6.28                   | 13,400  | 15.5   | 11,500  | 14.0   | 9,750  | 13.0   |  |      |
| 1958   | 11500               | 6.86                   | 15,200  | 18.5   | 13,400  | 17.5   | 11,600   | 16.0   | 9,900  | 15.0 |
| 2040   | 12000               | 7.47                   | 16,900  | 21.5   | 15,200  | 20.5   | 13,700   | 19.5   | 11,900   | 18.0 |
| 2125   | 12500               | 8.10                   | 18,400  | 24.5   | 17,000  | 24   | 15,300   | 22.5   | 13,700   | 21.5 |
| 2210   | 13000               | 8.76                   | 19,900  | 28   | 18,600  | 28   | 17,000   | 26   | 15,500   | 25   |
| 2295   | 13500               | 9.45                   | 21,300  | 32   | 20,100  | 31   | 18,700   | 30   | 17,300   | 29   |
| 2380   | 14000               | 10.18                  | 22,800  | 36   | 21,600  | 35   | 20,200   | 34   | 18,900   | 33   |
| 2465   | 14500               | 10.90                  | 24,100  | 40   | 23,000  | 39   | 21,800   | 38   | 20,600   | 38   |
| 2555   | 15000               | 11.68                  | 25,300  | 45   | 24,300  | 44   | 23,300   | 43   | 22,200   | 42   |
|        |                     |                        |   |  |   |  |  |  | 16,100   | 31   |
|        |                     |                        |   |  |   |  |  |  | 17,900   | 35   |
|        |                     |                        |   |  |   |  |  |  | 19,700   | 41   |
|        |                     |                        |   |  |   |  |  |  | 16,800   | 37   |
|        |                     |                        |   |  |   |  |  |  | 15,000   | 32   |
|        |                     |                        |   |  |   |  |  |  | 14,300   | 34   |

Double Inlet

## No. 65 Turbovane Fan—Design 1

Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| Table 1 - Recommended Cutting Speeds for Cast Iron Against Continuously Maintained Resistances |                  |                  |  |   |   |   |   |   |   |       |               |       |               |       |               |       |
|--|------------------|------------------|--|---|---|---|---|---|---|-------|---------------|-------|---------------|-------|---------------|-------|
| R.P.M.   | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.                                      | H. P.   | Volume C.F.M.                                   | H. P.   | Volume C.F.M.                                   | H. P.   | Volume C.F.M.                                   | H. P. | Volume C.F.M. | H. P. | Volume C.F.M. | H. P. | Volume C.F.M. | H. P. |
|  |                  |                  | Static Pressure 1/2" Water .0722 ozs. per sq. inch | Static Pressure 1/2" Water .285 ozs. per sq. inch | Static Pressure 1" Water .578 ozs. per sq. inch | Static Pressure 1 1/2" Water .875 ozs. per sq. inch | Static Pressure 2" Water 1.16 ozs. per sq. inch | Static Pressure 2 1/2" Water 1.45 ozs. per sq. inch | Static Pressure 3" Water 1.73 ozs. per sq. inch |       |               |       |               |       |               |       |
| 574  | 3800             | 0.749            | 8,950  | 0.98  | 4,730   | 0.73  |   |   |   |       |               |       |               |       |               |       |
| 604  | 4000             | 0.830            | 9,550  | 1.15  | 5,650   | 0.90  |   |   |   |       |               |       |               |       |               |       |
| 634  | 4200             | 0.915            | 10,200   | 1.35  | 6,650   | 1.10  |   |   |   |       |               |       |               |       |               |       |
| 664  | 4400             | 1.00             | 10,700   | 1.55  | 7,500   | 1.35  |   |   |   |       |               |       |               |       |               |       |
| 695  | 4600             | 1.10             | 11,300   | 1.75  | 8,350   | 1.55  |   |   |   |       |               |       |               |       |               |       |
| 725  | 4800             | 1.20             | 11,800   | 2.00  | 9,100   | 1.80  |   |   |   |       |               |       |               |       |               |       |
| 755  | 5000             | 1.30             | 12,400   | 2.25  | 9,850   | 2.05  |   |   |   |       |               |       |               |       |               |       |
| 793  | 5250             | 1.43             | 13,100   | 2.60  | 10,800  | 2.40  | 6,150   | 1.85  |   |       |               |       |               |       |               |       |
| 831  | 5500             | 1.57             | 13,800   | 3.00  | 11,600  | 2.75  | 7,300   | 2.25  |   |       |               |       |               |       |               |       |
| 868  | 5750             | 1.72             | 14,500   | 3.45  | 12,400  | 3.20  | 8,500   | 2.75  |   |       |               |       |               |       |               |       |
| 906  | 6000             | 1.87             | 15,200   | 3.95  | 13,200  | 3.65  | 9,650   | 3.25  |   |       |               |       |               |       |               |       |
| 945  | 6250             | 2.03             | 15,900   | 4.4   | 13,900  | 4.1   | 10,800  | 3.8   |   |       |               |       |               |       |               |       |
| 981  | 6500             | 2.19             | 16,600   | 5.0   | 14,700  | 4.7   | 11,800  | 4.4   | 7,850   | 3.55  |               |       |               |       |               |       |
| 1020   | 6750             | 2.36             | 17,200   | 5.5   | 15,500  | 5.3   | 12,800  | 4.9   | 9,000   | 4.20  |               |       |               |       |               |       |
| 1058   | 7000             | 2.54             | 17,900   | 6.3   | 16,200  | 6.0   | 13,700  | 5.5   | 10,200  | 4.85  |               |       |               |       |               |       |
| 1132   | 7500             | 2.92             | 18,300   | 7.8   | 17,700  | 7.5   | 15,500  | 7.0   | 12,500  | 6.5   | 9,050         | 5.8   |               |       |               |       |
| 1208   | 8000             | 3.32             | 20,600   | 9.3   | 19,100  | 9.0   | 17,100  | 8.5   | 14,600  | 8.0   | 11,500        | 7.3   |               |       |               |       |
| 1282   | 8500             | 3.75             | 22,000   | 11.0  | 20,500  | 11.0  | 18,700  | 10.5  | 16,500  | 10.0  | 13,700        | 9.3   | 10,600        | 8.0   |               |       |
| 1360   | 9000             | 4.20             | 23,400   | 13.5  | 22,000  | 13.0  | 20,200  | 12.5  | 18,300  | 12.0  | 15,800        | 11.5  | 13,100        | 10.5  | 10,000        | 9.0   |
| 1436   | 9500             | 4.69             | 24,700   | 15.5  | 23,400  | 15.5  | 21,700  | 15.0  | 20,000  | 14.0  | 17,800        | 13.5  | 15,300        | 13.0  | 12,500        | 11.5  |
| 1510   | 10000            | 5.19             | 26,000   | 18.0  |   |   | 23,200  | 17.5  | 21,700  | 16.5  | 19,700        | 16    | 17,500        | 15.5  | 14,900        | 14.5  |
| 1585   | 10500            | 5.72             | 27,400   | 21.0  |   |   | 24,700  | 20.5  | 23,100  | 19.5  | 21,500        | 19    | 19,500        | 18.5  | 17,300        | 17.5  |
| 1660   | 11000            | 6.28             | 28,800   | 24.5  |   |   | 26,100  | 23.5  | 24,700  | 22.5  | 23,200        | 22    | 21,400        | 21.5  | 19,400        | 20.5  |
| 1735   | 11500            | 6.86             | 30,000   | 28  |   |   | 27,500  | 27  | 26,200  | 26    | 24,800        | 25    | 23,200        | 25    | 21,400        | 24    |
| 1811   | 12000            | 7.47             | 31,400   | 32  |   |   | 29,000  | 31  | 27,700  | 30    | 26,400        | 29    | 24,900        | 28    | 23,300        | 28    |
| 1888   | 12500            | 8.10             | 32,800   | 36  |   |   | 30,500  | 35  | 29,200  | 34    | 27,800        | 33    | 26,600        | 32    | 25,000        | 32    |
| 1961   | 13000            | 8.76             | 34,000   | 40  |   |   | 31,800  | 40  | 30,500  | 39    | 29,500        | 38    | 28,100        | 37    | 26,800        | 36    |
| 2040   | 13500            | 9.45             | 35,400   | 45  |   |   | 33,300  | 45  | 32,000  | 43    | 30,900        | 42    | 29,800        | 41    | 28,500        | 41    |
| 2115   | 14000            | 10.18            | 36,700   | 50  |   |   | 34,800  | 48  |   |       |               |       |               |       |               |       |
| 2190   | 14500            | 10.90            | 38,000   | 56  |   |   |   |   | 33,500  | 49    | 32,400        | 48    | 31,300        | 47    | 30,000        | 46    |
| 2263   | 15000            | 11.68            | 39,400   | 60  |   |   |   |   | 34,900  | 56    | 33,900        | 52    | 32,700        | 52    | 31,600        | 50    |
|  |                  |                  |  |   |   |   |   |   | 36,300  | 60    | 35,300        | 60    | 34,200        | 58    | 33,200        | 58    |

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 3 1/2" Water 2.02 ozs. per sq. inch | Static Pressure 4" Water 2.31 ozs. per sq. inch | Static Pressure 4 1/2" Water 2.60 ozs. per sq. inch | Static Pressure 5" Water 2.89 ozs. per sq. inch | Static Pressure 5 1/2" Water 3.18 ozs. per sq. inch | Static Pressure 6" Water 3.47 ozs. per sq. inch | Static Pressure 7" Water 4.05 ozs. per sq. inch | Static Pressure 8" Water 4.63 ozs. per sq. inch |    |
|--------|------------------|------------------|---|---|---|---|---|---|---|---|----|
| 1510   | 10000            | 5.19             | 12,300  | 13.0  |   |   |   |   |   |   |    |
| 1585   | 10500            | 5.72             | 14,700  | 16.0  |   |   |   |   |   |   |    |
| 1660   | 11000            | 6.28             | 17,100  | 19.5  | 12,400  | 16.5  |   |   |   |   |    |
| 1735   | 11500            | 6.86             | 19,300  | 23  | 14,700  | 20.5  | 12,700  | 19  |   |   |    |
| 1811   | 12000            | 7.47             | 21,400  | 27  | 17,300  | 24.5  | 15,100  | 23  |   |   |    |
| 1888   | 12500            | 8.10             | 23,400  | 31  | 19,400  | 29  | 17,400  | 27  |   |   |    |
| 1961   | 13000            | 8.76             | 25,300  | 35  | 21,600  | 33  | 19,700  | 32  | 15,700  | 28  |    |
| 2040   | 13500            | 9.45             | 27,000  | 40  | 23,800  | 38  | 21,900  | 37  | 18,500  | 33  |    |
| 2115   | 14000            | 10.18            | 28,900  | 45  | 25,600  | 43  | 24,000  | 42  | 20,400  | 39  |    |
| 2190   | 14500            | 10.90            | 30,500  | 50  | 27,600  | 49  | 26,200  | 48  | 22,700  | 45  |    |
| 2263   | 15000            | 11.68            | 32,100  | 58  | 29,600  | 56  | 28,100  | 56  | 25,000  | 52  |    |
|        |                  |                  |   |   |   |   |   |   | 16,800  | 35  |    |
|        |                  |                  |   |   |   |   |   |   | 19,100  | 41  |    |
|        |                  |                  |   |   |   |   |   |   | 21,400  | 47  |    |
|        |                  |                  |   |   |   |   |   |   |   | 15,600  | 37 |
|        |                  |                  |   |   |   |   |   |   |   | 18,100  | 44 |

Double Inlet

## No. 70 Turbovane Fan—Design 1

Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| Capacity 1000 lbs. per cubic foot Against Continuously Maintained Resistances |                     |                        |  |  |  |   |  |   |  |       |                  |       |                  |       |                  |       |
|---|---------------------|------------------------|--|--|--|---|--|---|--|-------|------------------|-------|------------------|-------|------------------|-------|
| R.P.M.  | Tip Speed<br>F.P.M. | S.N.D.<br>in<br>inches | Volume<br>C.F.M.   | H. P.  | Volume<br>C.F.M.   | H. P.   | Volume<br>C.F.M.   | H. P.   | Volume<br>C.F.M.   | H. P. | Volume<br>C.F.M. | H. P. | Volume<br>C.F.M. | H. P. | Volume<br>C.F.M. | H. P. |
|   |                     |                        | Static Pressure<br>1½" Water<br>.0722 ozs. per<br>sq. inch | Static Pressure<br>½" Water<br>.289 ozs. per<br>sq. inch | Static Pressure<br>1" Water<br>.578 ozs. per<br>sq. inch | Static Pressure<br>1½" Water<br>.878 ozs. per<br>sq. inch | Static Pressure<br>2" Water<br>1.16 ozs. per<br>sq. inch | Static Pressure<br>2½" Water<br>1.45 ozs. per<br>sq. inch | Static Pressure<br>3" Water<br>1.73 ozs. per<br>sq. inch |       |                  |       |                  |       |                  |       |
| 516   | 3800                | 0.749                  | 11,100   | 1.20   | 5,850  | 0.90  |  |   |  |       |                  |       |                  |       |                  |       |
| 543   | 4000                | 0.830                  | 11,800   | 1.40   | 6,950  | 1.10  |  |   |  |       |                  |       |                  |       |                  |       |
| 570   | 4200                | 0.915                  | 12,500   | 1.65   | 8,200  | 1.35  |  |   |  |       |                  |       |                  |       |                  |       |
| 597   | 4400                | 1.00                   | 13,200   | 1.90   | 9,250  | 1.65  |  |   |  |       |                  |       |                  |       |                  |       |
| 625   | 4600                | 1.10                   | 13,900   | 2.20   | 10,300   | 1.90  |  |   |  |       |                  |       |                  |       |                  |       |
| 652   | 4800                | 1.20                   | 14,600   | 2.45   | 11,200   | 2.20  |  |   |  |       |                  |       |                  |       |                  |       |
| 680   | 5000                | 1.30                   | 15,300   | 2.80   | 12,200   | 2.50  |  |   |  |       |                  |       |                  |       |                  |       |
| 712   | 5250                | 1.43                   | 16,200   | 3.20   | 13,200   | 2.95  | 7,550  | 2.30  |  |       |                  |       |                  |       |                  |       |
| 746   | 5500                | 1.57                   | 17,000   | 3.70   | 14,300   | 3.40  | 8,950  | 2.75  |  |       |                  |       |                  |       |                  |       |
| 781   | 5750                | 1.72                   | 17,900   | 4.25   | 15,300   | 3.90  | 10,500   | 3.35  |  |       |                  |       |                  |       |                  |       |
| 815   | 6000                | 1.87                   | 18,700   | 4.85   | 16,300   | 4.45  | 11,900   | 4.00  |  |       |                  |       |                  |       |                  |       |
| 849   | 6250                | 2.03                   | 19,600   | 5.5  | 17,200   | 5.0   | 13,300   | 4.65  |  |       |                  |       |                  |       |                  |       |
| 882   | 6500                | 2.19                   | 20,400   | 6.3  | 18,100   | 5.8   | 14,600   | 5.5   | 9,650  | 4.35  |                  |       |                  |       |                  |       |
| 916   | 6750                | 2.36                   | 21,200   | 7.0  | 19,000   | 6.5   | 15,800   | 6.0   | 11,100   | 5.3   |                  |       |                  |       |                  |       |
| 950   | 7000                | 2.54                   | 22,100   | 7.8  | 19,900   | 7.3   | 16,900   | 6.8   | 12,500   | 6.0   |                  |       |                  |       |                  |       |
| 1020  | 7500                | 2.92                   | 23,800   | 9.5  | 21,800   | 9.3   | 19,100   | 8.5   | 15,400   | 8.0   | 11,200           | 7.0   |                  |       |                  |       |
| 1088  | 8000                | 3.32                   | 25,400   | 11.5   | 23,500   | 11.5  | 21,100   | 10.5  | 18,000   | 9.8   | 14,200           | 9.0   |                  |       |                  |       |
| 1155  | 8500                | 3.75                   | 27,100   | 13.5   | 25,300   | 13.5  | 23,000   | 13.0  | 20,300   | 12.5  | 16,900           | 11.5  | 13,100           | 10.0  |                  |       |
| 1221  | 9000                | 4.20                   | 28,800   | 16.5   | 27,100   | 16.5  | 24,900   | 15.0  | 22,500   | 14.5  | 19,500           | 14.0  | 16,100           | 12.5  | 12,200           | 11.5  |
| 1290  | 9500                | 4.69                   | 30,400   | 19.5   | 28,800   | 19.5  | 26,700   | 18.0  | 24,600   | 17.5  | 22,000           | 16.5  | 18,900           | 16.0  | 15,400           | 14.0  |
| 1358  | 10000               | 5.19                   | 32,000   | 22.5   |  |   | 28,600   | 21.5  | 26,700   | 20.5  | 24,300           | 20.0  | 21,600           | 19.0  | 18,300           | 17.5  |
| 1425  | 10500               | 5.72                   | 33,700   | 26   |  |   | 30,400   | 25  | 28,500   | 24    | 26,500           | 23.5  | 24,000           | 22.5  | 21,300           | 21.5  |
| 1493  | 11000               | 6.28                   | 35,400   | 30   |  |   | 32,200   | 29  | 30,400   | 28    | 28,600           | 27    | 26,300           | 26    | 23,900           | 26    |
| 1561  | 11500               | 6.86                   | 37,000   | 34   |  |   | 33,900   | 33  | 32,300   | 32    | 30,500           | 31    | 28,500           | 31    | 26,400           | 30    |
| 1630  | 12000               | 7.47                   | 38,700   | 39   |  |   | 35,700   | 38  | 34,100   | 37    | 32,500           | 36    | 30,600           | 35    | 28,700           | 34    |
| 1698  | 12500               | 8.10                   | 40,400   | 44   |  |   | 37,600   | 43  | 35,900   | 42    | 34,300           | 41    | 32,800           | 40    | 30,900           | 39    |
| 1763  | 13000               | 8.76                   | 42,000   | 49   |  |   | 39,300   | 49  | 37,600   | 48    | 36,300           | 47    | 34,700           | 45    | 33,000           | 44    |
| 1831  | 13500               | 9.45                   | 43,500   | 56   |  |   | 41,000   | 56  | 39,400   | 52    | 38,000           | 52    | 36,600           | 50    | 35,100           | 50    |
| 1900  | 14000               | 10.18                  | 45,200   | 62   |  |   | 42,800   | 60  | 41,300   | 60    | 39,900           | 60    | 38,500           | 58    | 37,100           | 58    |
| 1969  | 14500               | 10.90                  | 46,800   | 68   |  |   |  |   | 42,900   | 68    | 41,800           | 66    | 40,300           | 66    | 38,900           | 62    |
| 2040  | 15000               | 11.68                  | 48,600   | 76   |  |   |  |   | 44,800   | 76    | 43,500           | 72    | 42,200           | 72    | 40,900           | 70    |

| R.P.M. | Tip Speed<br>F.P.M. | S.N.D.<br>in<br>inches | Static Pressure<br>3½" Water<br>2.02 ozs. per<br>sq. inch | Static Pressure<br>4" Water<br>2.31 ozs. per<br>sq. inch | Static Pressure<br>4½" Water<br>2.60 ozs. per<br>sq. inch | Static Pressure<br>5" Water<br>2.89 ozs. per<br>sq. inch | Static Pressure<br>6" Water<br>3.47 ozs. per<br>sq. inch | Static Pressure<br>7" Water<br>4.05 ozs. per<br>sq. inch | Static Pressure<br>8" Water<br>4.63 ozs. per<br>sq. inch |    |        |    |        |    |  |  |
|--------|---------------------|------------------------|---|--|---|--|--|--|--|----|--------|----|--------|----|--|--|
| 1358   | 10000               | 5.19                   | 15,200  | 16   |   |  |  |  |  |    |        |    |        |    |  |  |
| 1425   | 10500               | 5.72                   | 18,100  | 20   |   |  |  |  |  |    |        |    |        |    |  |  |
| 1493   | 11000               | 6.28                   | 21,000  | 24   | 15,300  | 20.5   |  |  |  |    |        |    |        |    |  |  |
| 1561   | 11500               | 6.86                   | 23,800  | 29   | 18,100  | 25   | 15,500   | 23.5   |  |    |        |    |        |    |  |  |
| 1630   | 12000               | 7.47                   | 26,400  | 33   | 21,400  | 30   | 18,600   | 28   |  |    |        |    |        |    |  |  |
| 1698   | 12500               | 8.10                   | 28,800  | 38   | 23,900  | 36   | 21,500   | 34   |  |    |        |    |        |    |  |  |
| 1763   | 13000               | 8.76                   | 31,100  | 44   | 26,600  | 41   | 24,300   | 39   |  |    |        |    |        |    |  |  |
| 1831   | 13500               | 9.45                   | 33,300  | 49   | 29,300  | 47   | 27,000   | 46   |  |    |        |    |        |    |  |  |
| 1900   | 14000               | 10.18                  | 35,600  | 56   | 31,500  | 52   | 29,600   | 52   |  |    |        |    |        |    |  |  |
| 1969   | 14500               | 10.90                  | 37,600  | 62   | 34,000  | 60   | 32,200   | 60   | 25,100   | 48 | 20,600 | 41 |        |    |  |  |
| 2040   | 15000               | 11.68                  | 39,500  | 70   | 36,500  | 68   | 34,700   | 68   | 30,800   | 62 | 28,000 | 56 | 19,200 | 46 |  |  |









Double Inlet

## No. 110 Turbovane Fan—Design 1

Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed<br>F.P.M. | S.N.D.<br>in<br>inches | Volume<br>C.F.M.  | H. P.  | Volume<br>C.F.M.   | H. P.  | Volume<br>C.F.M.   | H. P.  | Volume<br>C.F.M.   | H. P. | Volume<br>C.F.M. | H. P. | Volume<br>C.F.M. | H. P. | Volume<br>C.F.M. | H. P. |
|--------|---------------------|------------------------|---|--|--|--|--|--|--|-------|------------------|-------|------------------|-------|------------------|-------|
|        |                     |                        | Static Pressure<br>1/2" Water<br>.0722 ozs. per<br>sq. inch | Static Pressure<br>1/2" Water<br>.289 ozs. per<br>sq. inch | Static Pressure<br>1" Water<br>.578 ozs. per<br>sq. inch | Static Pressure<br>1 1/2" Water<br>.878 ozs. per<br>sq. inch | Static Pressure<br>2" Water<br>1.16 ozs. per<br>sq. inch | Static Pressure<br>2 1/2" Water<br>1.45 ozs. per<br>sq. inch | Static Pressure<br>3" Water<br>1.73 ozs. per<br>sq. inch |       |                  |       |                  |       |                  |       |
| 288    | 3800                | 0 749                  | 35,900  | 3.90   | 18,900   | 2 90   |  |  |  |       |                  |       |                  |       |                  |       |
| 302    | 4000                | 0 830                  | 38,100  | 4.55   | 22,600   | 3 55   |  |  |  |       |                  |       |                  |       |                  |       |
| 318    | 4200                | 0 915                  | 40,500  | 5 3  | 26,500   | 4 4  |  |  |  |       |                  |       |                  |       |                  |       |
| 332    | 4400                | 1 00                   | 42,800  | 6 0  | 30,100   | 5 3  |  |  |  |       |                  |       |                  |       |                  |       |
| 348    | 4600                | 1 10                   | 45,000  | 7 0  | 33,400   | 6 3  |  |  |  |       |                  |       |                  |       |                  |       |
| 363    | 4800                | 1 20                   | 47,200  | 8 0  | 36,400   | 7 0  |  |  |  |       |                  |       |                  |       |                  |       |
| 378    | 5000                | 1 30                   | 49,600  | 9 0  | 39,400   | 8 0  |  |  |  |       |                  |       |                  |       |                  |       |
| 397    | 5250                | 1 43                   | 52,500  | 10 5   | 42,900   | 9 5  | 24,500   | 7 5  |  |       |                  |       |                  |       |                  |       |
| 416    | 5500                | 1 57                   | 55,000  | 12 0   | 46,300   | 11 0   | 29,100   | 9 0  |  |       |                  |       |                  |       |                  |       |
| 435    | 5750                | 1 72                   | 58,000  | 13 5   | 49,500   | 12 5   | 34,000   | 11 0   |  |       |                  |       |                  |       |                  |       |
| 453    | 6000                | 1 87                   | 60,500  | 16 0   | 52,500   | 14 5   | 38,600   | 13 0   |  |       |                  |       |                  |       |                  |       |
| 472    | 6250                | 2 03                   | 63,500  | 17 5   | 55,500   | 16 5   | 43,000   | 15 0   |  |       |                  |       |                  |       |                  |       |
| 491    | 6500                | 2 19                   | 66,000  | 20 0   | 59,000   | 19 0   | 47,200   | 17 5   | 31,300   | 14 0  |                  |       |                  |       |                  |       |
| 510    | 6750                | 2 36                   | 69,000  | 22 5   | 61,500   | 21 0   | 51,000   | 19 5   | 36,000   | 16 5  |                  |       |                  |       |                  |       |
| 529    | 7000                | 2 54                   | 71,500  | 25   | 64,500   | 23 5   | 55,000   | 22   | 40,500   | 19 5  |                  |       |                  |       |                  |       |
| 567    | 7500                | 2 92                   | 77,000  | 31   | 70,500   | 30   | 61,500   | 28   | 49,900   | 26    | 36,100           | 23    |                  |       |                  |       |
| 604    | 8000                | 3 32                   | 82,500  | 37   | 76,500   | 36   | 68,500   | 34   | 58,500   | 32    | 46,000           | 29    |                  |       |                  |       |
| 612    | 8500                | 3 75                   | 88,000  | 44   | 82,000   | 41   | 71,500   | 42   | 66,000   | 40    | 54,500           | 37    | 42,300           | 32    |                  |       |
| 680    | 9000                | 4 20                   | 93,500  | 52   | 88,000   | 52   | 80,500   | 49   | 73,000   | 48    | 63,500           | 46    | 52,500           | 41    | 40,000           | 36    |
| 718    | 9500                | 4 69                   | 98,500  | 62   | 98,500   | 62   | 86,500   | 60   | 80,000   | 58    | 71,000           | 56    | 61,000           | 52    | 49,800           | 46    |
| 755    | 10000               | 5 19                   | 104,000   | 72   |  |  | 92,500   | 70   | 86,500   | 68    | 79,000           | 66    | 70,000           | 62    | 59,500           | 58    |
| 793    | 10500               | 5 72                   | 109,000   | 86   |  |  | 98,500   | 82   | 92,500   | 78    | 86,000           | 76    | 78,000           | 72    | 69,000           | 70    |
| 830    | 11000               | 6 28                   | 115,000   | 98   |  |  | 105,000  | 96   | 98,500   | 90    | 92,500           | 88    | 80,500           | 85    | 77,500           | 82    |
| 868    | 11500               | 6 86                   | 120,000   | 110  |  |  | 110,000  | 110  | 105,000  | 105   | 99,000           | 105   | 92,500           | 100   | 85,500           | 98    |
| 906    | 12000               | 7 47                   | 126,000   | 125  |  |  | 116,000  | 125  | 111,000  | 120   | 106,000          | 120   | 99,500           | 115   | 93,000           | 115   |
| 944    | 12500               | 8 10                   | 131,000   | 145  |  |  | 122,000  | 140  | 117,000  | 135   | 111,000          | 135   | 106,000          | 130   | 100,000          | 130   |
| 981    | 13000               | 8 76                   | 136,000   | 160  |  |  | 127,000  | 160  | 122,000  | 155   | 118,000          | 150   | 113,000          | 150   | 107,000          | 145   |
| 1020   | 13500               | 9 45                   | 142,000   | 180  |  |  | 133,000  | 180  | 128,000  | 175   | 124,000          | 170   | 119,000          | 165   | 114,000          | 165   |
| 1058   | 14000               | 10 18                  | 147,000   | 200  |  |  | 139,000  | 200  | 134,000  | 195   | 130,000          | 190   | 125,000          | 185   | 120,000          | 185   |
| 1097   | 14500               | 10 90                  | 152,000   | 220  |  |  |  |  | 140,000  | 220   | 136,000          | 215   | 131,000          | 210   | 126,000          | 205   |
| 1132   | 15000               | 11 68                  | 157,000   | 245  |  |  |  |  | 145,000  | 290   | 141,000          | 240   | 137,000          | 235   | 133,000          | 230   |

| R.P.M. | Tip Speed<br>F.P.M. | S.N.D.<br>in<br>inches | Static Pressure<br>3 1/2" Water<br>2.02 ozs. per<br>sq. inch | Static Pressure<br>4" Water<br>2.31 ozs. per<br>sq. inch | Static Pressure<br>4 1/2" Water<br>2.60 ozs. per<br>sq. inch | Static Pressure<br>5" Water<br>2.89 ozs. per<br>sq. inch | Static Pressure<br>6" Water<br>3.47 ozs. per<br>sq. inch | Static Pressure<br>7" Water<br>4.05 ozs. per<br>sq. inch | Static Pressure<br>8" Water<br>4.63 ozs. per<br>sq. inch |     |
|--------|---------------------|------------------------|--|--|--|--|--|--|--|-----|
| 755    | 10000               | 5 19                   | 49,100   | 52   |  |  |  |  |  |     |
| 793    | 10500               | 5 72                   | 58,500   | 66   | 47,700   | 58   |  |  |  |     |
| 830    | 11000               | 6 28                   | 68,000   | 78   | 58,000   | 72   |  |  |  |     |
| 868    | 11500               | 6 86                   | 77,000   | 92   | 67,500   | 88   | 49,500   | 68   |  |     |
|        |                     |                        |  |  | 58,500   | 82   | 50,000   | 76   |  |     |
| 906    | 12000               | 7 47                   | 85,500   | 110  | 77,000   | 105  | 69,000   | 98   | 60,500   | 90  |
| 944    | 12500               | 8 10                   | 93,500   | 125  | 86,000   | 120  | 77,500   | 115  | 69,500   | 110 |
| 981    | 13000               | 8 76                   | 101,000  | 140  | 94,000   | 140  | 86,500   | 135  | 78,500   | 130 |
| 1020   | 13500               | 9 45                   | 108,000  | 160  | 102,000  | 160  | 95,000   | 160  | 87,500   | 150 |
| 1058   | 14000               | 10 18                  | 116,000  | 180  | 110,000  | 180  | 102,000  | 175  | 96,000   | 170 |
| 1097   | 14500               | 10 90                  | 122,000  | 205  | 116,000  | 200  | 111,000  | 195  | 105,000  | 195 |
| 1132   | 15000               | 11 68                  | 128,000  | 225  | 124,000  | 225  | 118,000  | 220  | 113,000  | 215 |
|        |                     |                        |  |  |  |  |  |  | 100,000  | 205 |
|        |                     |                        |  |  |  |  |  |  | 85,500   | 190 |
|        |                     |                        |  |  |  |  |  |  | 76,000   | 165 |
|        |                     |                        |  |  |  |  |  |  | 67,000   | 145 |
|        |                     |                        |  |  |  |  |  |  | 62,000   | 150 |
|        |                     |                        |  |  |  |  |  |  | 72,000   | 325 |

Double Inlet

**No. 120 Turbovane Fan—Design 1**

Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.<br>Static Pressure 1/2" Water .0722 oza. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure 1/2" Water .289 oza. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure 1" Water .578 oza. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure 1 1/2" Water .878 oza. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure 2" Water 1.16 oza. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure 2 1/2" Water 1.45 oza. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure 3" Water 1.73 oza. per sq. inch | H. P. |
|--------|------------------|------------------|---|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|
| 258    | 3800             | 0.749            | 41,200  | 4.8   | 23,300   | 3.55  |  |       |  |       |  |       |  |       |  |       |
| 272    | 4000             | 0.830            | 47,000  | 5.5   | 27,800   | 4.4   |  |       |  |       |  |       |  |       |  |       |
| 285    | 4200             | 0.915            | 50,000  | 6.5   | 32,700   | 5.5   |  |       |  |       |  |       |  |       |  |       |
| 290    | 4400             | 1.00             | 52,500  | 7.5   | 37,000   | 6.5   |  |       |  |       |  |       |  |       |  |       |
| 313    | 4600             | 1.10             | 55,500  | 8.8   | 41,200   | 7.5   |  |       |  |       |  |       |  |       |  |       |
| 326    | 4800             | 1.20             | 58,000  | 9.8   | 44,900   | 8.8   |  |       |  |       |  |       |  |       |  |       |
| 340    | 5000             | 1.30             | 61,000  | 11.5  | 48,500   | 10.0  |  |       |  |       |  |       |  |       |  |       |
| 357    | 5250             | 1.43             | 64,500  | 13.0  | 53,000   | 12.0  | 30,200   | 9.0   |  |       |  |       |  |       |  |       |
| 374    | 5500             | 1.57             | 68,000  | 15.0  | 57,000   | 13.5  | 35,800   | 11.0  |  |       |  |       |  |       |  |       |
| 391    | 5750             | 1.72             | 71,500  | 17.0  | 61,000   | 15.5  | 41,800   | 13.5  |  |       |  |       |  |       |  |       |
| 408    | 6000             | 1.87             | 75,000  | 19.5  | 65,000   | 18.0  | 47,600   | 16.0  |  |       |  |       |  |       |  |       |
| 425    | 6250             | 2.03             | 78,000  | 22.0  | 68,500   | 20.5  | 53,000   | 18.5  |  |       |  |       |  |       |  |       |
| 442    | 6500             | 2.19             | 81,500  | 24.5  | 72,500   | 23.5  | 58,000   | 21.5  | 38,600   | 17.5  |  |       |  |       |  |       |
| 459    | 6750             | 2.36             | 85,000  | 28    | 76,000   | 26    | 63,000   | 24    | 44,300   | 20.5  |  |       |  |       |  |       |
| 476    | 7000             | 2.54             | 88,000  | 31    | 79,500   | 29    | 67,500   | 27    | 50,000   | 24    |  |       |  |       |  |       |
| 510    | 7500             | 2.92             | 95,000  | 38    | 87,000   | 37    | 76,000   | 34    | 61,500   | 32    | 44,500   | 28    |  |       |  |       |
| 511    | 8000             | 3.32             | 102,000   | 46    | 91,000   | 45    | 81,500   | 42    | 72,000   | 39    | 57,000   | 36    |  |       |  |       |
| 577    | 8500             | 3.75             | 108,000   | 56    | 101,000  | 56    | 92,000   | 50    | 81,000   | 46    | 67,500   | 46    | 52,000   | 40    |  |       |
| 611    | 9000             | 4.20             | 115,000   | 66    | 109,000  | 66    | 99,500   | 60    | 90,000   | 58    | 78,000   | 56    | 64,500   | 50    | 49,300   | 45    |
| 645    | 9500             | 4.69             | 122,000   | 78    | 115,000  | 78    | 106,000  | 72    | 98,500   | 70    | 87,500   | 68    | 75,500   | 62    | 61,500   | 58    |
| 679    | 10000            | 5.19             | 128,000   | 90    |  |       | 114,000  | 86    | 107,000  | 82    | 97,000   | 80    | 86,000   | 76    | 73,000   | 70    |
| 713    | 10500            | 5.72             | 135,000   | 105   |  |       | 122,000  | 100   | 114,500  | 98    | 106,000  | 92    | 96,000   | 90    | 85,000   | 86    |
| 746    | 11000            | 6.28             | 142,000   | 120   |  |       | 129,000  | 115   | 122,000  | 115   | 114,000  | 110   | 105,000  | 105   | 95,500   | 105   |
| 780    | 11500            | 6.86             | 148,000   | 140   |  |       | 136,000  | 135   | 129,000  | 130   | 122,000  | 125   | 114,000  | 125   | 106,000  | 120   |
| 815    | 12000            | 7.47             | 155,000   | 155   |  |       | 143,000  | 155   | 137,000  | 150   | 130,000  | 145   | 123,000  | 140   | 115,000  | 140   |
| 849    | 12500            | 8.10             | 162,000   | 175   |  |       | 150,000  | 175   | 144,000  | 170   | 137,000  | 165   | 131,000  | 160   | 124,000  | 160   |
| 882    | 13000            | 8.76             | 168,000   | 200   |  |       | 157,000  | 195   | 151,000  | 190   | 145,000  | 185   | 139,000  | 180   | 132,000  | 180   |
| 916    | 13500            | 9.45             | 174,000   | 220   |  |       | 164,000  | 220   | 158,000  | 215   | 152,000  | 210   | 147,000  | 205   | 140,000  | 200   |
| 950    | 14000            | 10.18            | 181,000   | 245   |  |       | 171,000  | 245   | 165,000  | 240   | 160,000  | 235   | 154,000  | 230   | 148,000  | 225   |
| 985    | 14500            | 10.90            | 187,000   | 275   |  |       |  |       | 172,000  | 270   | 167,000  | 265   | 161,000  | 260   | 156,000  | 255   |
| 1019   | 15000            | 11.68            | 194,000   | 300   |  |       |  |       | 179,000  | 300   | 174,000  | 295   | 169,000  | 285   | 164,000  | 285   |

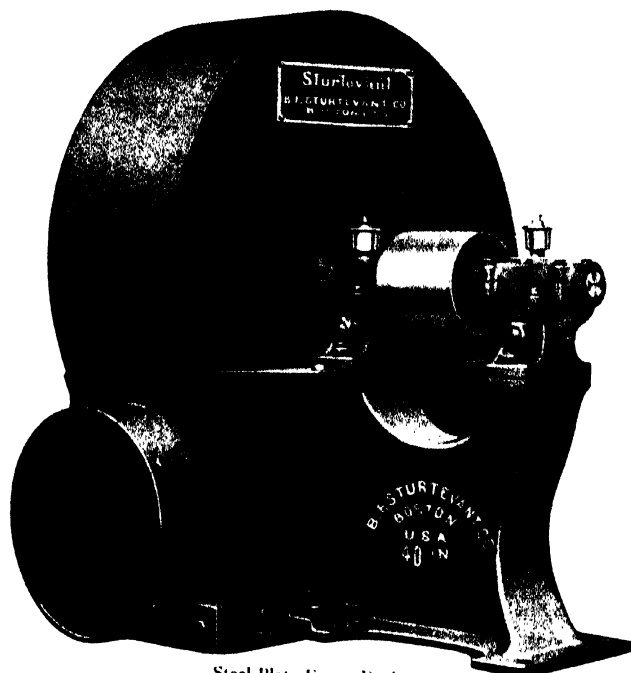
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 3 1/2" Water 2.02 oza. per sq. inch | Static Pressure 4" Water 2.31 oza. per sq. inch | Static Pressure 4 1/2" Water 2.60 oza. per sq. inch | Static Pressure 5" Water 2.89 oza. per sq. inch | Static Pressure 6" Water 3.47 oza. per sq. inch | Static Pressure 7" Water 4.05 oza. per sq. inch | Static Pressure 8" Water 4.63 oza. per sq. inch |         |     |         |     |        |     |  |
|--------|------------------|------------------|---|---|---|---|---|---|---|---------|-----|---------|-----|--------|-----|--|
| 679    | 10000            | 5.19             | 60,500  | 66  |   |   |   |   |   |         |     |         |     |        |     |  |
| 713    | 10500            | 5.72             | 72,500  | 80  | 59,000  | 70  |   |   |   |         |     |         |     |        |     |  |
| 746    | 11000            | 6.28             | 84,000  | 98  | 71,500  | 88  | 61,000  | 82  |   |         |     |         |     |        |     |  |
| 780    | 11500            | 6.86             | 95,000  | 115   | 83,500  | 110   | 72,500  | 100   | 62,000  | 92      |     |         |     |        |     |  |
| 815    | 12000            | 7.47             | 106,000   | 135   | 95,000  | 130   | 80,500  | 120   | 74,500  | 115     |     |         |     |        |     |  |
| 849    | 12500            | 8.10             | 116,000   | 155   | 106,000   | 150   | 95,500  | 145   | 86,000  | 135     |     |         |     |        |     |  |
| 882    | 13000            | 8.76             | 125,000   | 175   | 116,000   | 175   | 107,000   | 165   | 97,000  | 160     |     |         |     |        |     |  |
| 916    | 13500            | 9.45             | 133,000   | 200   | 126,000   | 195   | 117,000   | 190   | 108,000   | 185     |     |         |     |        |     |  |
| 950    | 14000            | 10.18            | 142,000   | 225   | 135,000   | 220   | 126,000   | 215   | 118,000   | 210     |     |         |     |        |     |  |
| 985    | 14500            | 10.90            | 151,000   | 250   | 144,000   | 245   | 136,000   | 240   | 129,000   | 240     |     |         |     |        |     |  |
| 1019   | 15000            | 11.68            | 158,000   | 280   | 152,000   | 275   | 146,000   | 270   | 139,000   | 265     |     |         |     |        |     |  |
|        |                  |                  |   |   |   |   |   |   |   | 101,000 | 195 | 82,500  | 175 |        |     |  |
|        |                  |                  |   |   |   |   |   |   |   | 112,000 | 225 | 94,000  | 205 | 76,500 | 185 |  |
|        |                  |                  |   |   |   |   |   |   |   | 123,000 | 255 | 105,000 | 235 | 89,000 | 215 |  |

# **STEEL PLATE FANS**

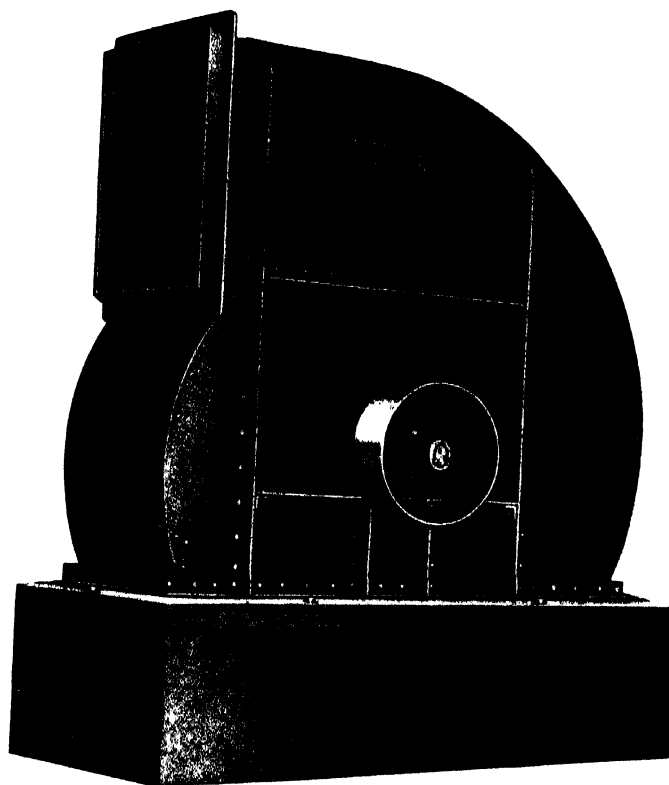
## **Design 1**

**Dimensions, Capacities, Horse Powers**





Steel Plate Fan - Design 1  
Overhung Wheel, Bottom Horizontal Discharge, Right Hand, Full Housing



Steel Plate Fan - Design 1  
Overhung Pulley, Top Horizontal Discharge, Right Hand, Three-quarter Housing



# STEEL PLATE FAN—DESIGN 1

## SPECIFICATIONS

Furnish and erect a Sturtevant steel plate fan, ..... housed; ..... discharge; ..... hand; ..... inlet; overhung .....; capable of delivering ..... cubic feet of air per minute against a static pressure of ..... inches, when running at ..... R. P. M. and requiring not more than ..... H. P. The fan shall be ..... inches wide, with its outlet ..... inches by ..... inches and its inlet ..... inches diameter.

**Housing.** The fan shall be constructed with its housing side sheets of ..... gauge, its roundabout or scroll sheet of ..... gauge. The roundabout sheet shall be secured to the scroll angles by tap bolts of ample size spaced 5 inches on centers. Scroll angles shall be ..... inches x ..... inches x ..... inches. The sheets used in the housing shall be the best grade of blue annealed steel plate. Housing shall be substantially braced by angle iron stiffeners and shall be built upon an angle iron base of ample strength to give the required rigidity.

**Wheel.** The blast wheel shall be ..... inches in diameter, of the side plate type containing ..... floats of ..... gauge, with annular side plates of ..... gauge. The floats shall be strongly riveted to steel T-arms, ..... inches x ..... inches x ..... inches, firmly cast into a hub spider of cast iron. (In the smaller size wheels one spider only is used while in larger wheels two or more spiders are used as necessary.) The wheel shall be given a careful balance during and after assembly to insure vibrationless operation.

**Shaft.** The shaft shall be ..... inches in diameter of best open hearth steel turned and ground to exact size.

**Bearings.** The bearings shall be cast iron, split in a plane coincident with the center of the shaft, and lined with Sturtevant White Metal. They shall be carried in chairs so as to be self aligning.

Oiling shall be accomplished by means of brush oilers sunk in wells and held against the bottom of the shaft by spiral springs. This, combined with capillary attraction, insures a copious supply of oil being supplied at the right point.

Where the fans are to be used for the handling of hot gases, bearings shall be furnished containing cored passages with outlets tapped for pipe connections so that effective water circulation may be secured.

In the case of large fans, pillow block type bearings shall be furnished in place of the chair box type.

# STEEL PLATE FAN—DESIGN 1

## EXPLANATION OF SPECIFICATION REQUIREMENTS

**Wheel.** On account of the higher peripheral speeds of the larger sizes, greater strength is necessary than in the smaller sizes. For this reason steel T-arms are cast into the hub rather than making the spider of one casting.

**Bearings.** The brush oiling arrangement has proved itself extremely satisfactory in service. Ring oil bearings, however, will be supplied if specified.

## **Steel Plate Fan—Design 1**

### **EXPLANATION OF TABLES**

The general explanation of tables given at the front of this book applies without exception to the following tables.

# Steel Plate Fan—Design 1

## APPROXIMATE WEIGHTS

| Size | Full Housing    |                |             | Three-quarter Housing | Extra Heavy, Full or Three-quarter Housing |              |
|------|-----------------|----------------|-------------|-----------------------|--|--------------|
|      | Overhung Pulley | Overhung Wheel | Duplex Fans |                       | Single Width                               | Double Width |
| 30   |                 | 290            |             |                       |  |              |
| 35   |                 | 435            |             |                       |  |              |
| 40   |                 | 547            |             |                       |  |              |
| 45   |                 | 755            |             |                       |  |              |
| 50   | 667             | 963            |             |                       |  |              |
| 60   | 915             | 1,198          | 2,350       |                       | 1,200                                      |              |
| 70   | 1,204           | 1,694          | 3,511       |                       | 1,600                                      |              |
| 80   | 1,450           | 1,720          | 4,100       | 1,200                 | 2,000                                      | 4,400        |
| 90   | 1,675           | 2,360          | 4,400       | 1,500                 | 2,300                                      | 5,000        |
| 100  | 2,020           | 2,690          | 4,664       | 2,000                 | 2,800                                      | 5,700        |
| 110  | 2,655           |                | 6,100       | 2,500                 | 3,300                                      | 6,200        |
| 120  | 3,250           |                | 7,400       | 2,800                 | 3,800                                      | 7,000        |
| 140  | 4,500           |                | 9,051       | 3,200                 | 5,000                                      | 9,700        |
| 160  | 5,584           |                | 11,000      | 4,500                 | 6,400                                      |              |
| 180  | 6,100           |                |             | 6,000                 | 8,000                                      |              |
| 200  | 7,200           |                |             | 7,700                 | 9,800                                      |              |
| 220  | 8,400           |                |             | 9,000                 | 11,600                                     |              |
| 240  | 9,500           |                |             | 11,000                | 13,500                                     |              |
| 260  |                 |                |             | 12,500                |  |              |
| 280  |                 |                |             | 14,500                |  |              |
| 300  |                 |                |             | 16,000                |  |              |
| 320  |                 |                |             | 18,000                |  |              |
| 360  |                 |                |             | 24,000                |  |              |
| 400  |                 |                |             | 31,000                |  |              |

All weights are net

Single Inlet

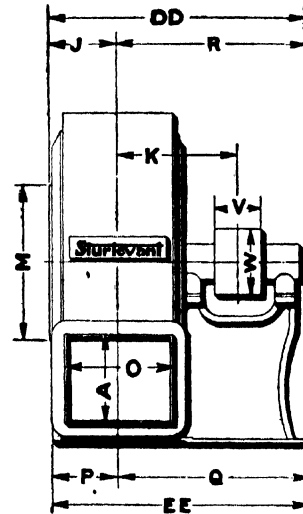
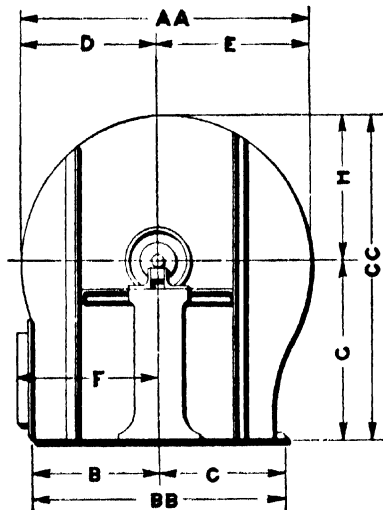
## Steel Plate Fan—Design 1

Single Width

Full Housing

Bottom Horizontal Discharge

Overhung Wheel



| Size | A   | B   | C   | D   | E   | F   | G   | H   | J   | K   | M   | O   | P   | Q   | R   | V  | W  | AA  | BB  | CC  | DD  | EE  | Extreme Wheel Diameter | Shaft Diameter | Anchor Bolt Hanger | Anchor Bolt Fan |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|-----|-----|-----|-----|-----|------------------------|----------------|--------------------|-----------------|
| 30   | 11  | 10  | 11½ | 11½ | 11½ | 13½ | 16½ | 13  | 8½  | 12  | 11  |     | 6½  | 20½ | 21  | 5  | 5½ | 26  | 21½ | 29½ | 29½ | 26½ | 18                     | 1½             | ½                  | ½               |
| 35   | 13  | 12  | 14½ | 13½ | 17  | 16  | 19½ | 15½ | 10½ | 14½ | 13  |     | 7½  | 24½ | 24½ | 6  | 6  | 30½ | 26½ | 34½ | 31½ | 31½ | 21                     | 1½             | ½                  | ½               |
| 40   | 14½ | 14  | 16½ | 16½ | 20½ | 18½ | 23½ | 18½ | 10½ | 15½ | 15  |     | 8½  | 26  | 26½ | 6½ | 6½ | 37  | 30½ | 41½ | 37½ | 34½ | 21                     | 1½             | ½                  | ½               |
| 45   | 16½ | 16½ | 18½ | 19  | 23  | 21½ | 25½ | 21  | 11½ | 17½ | 17  |     | 9½  | 28½ | 29½ | 7½ | 8  | 42  | 34½ | 46½ | 41½ | 37½ | 27                     | 1½             | ½                  | ½               |
| 50   | 18½ | 18½ | 22  | 21  | 25  | 23½ | 28½ | 23  | 12½ | 19  | 19  |     | 10  | 31½ | 32½ | 8½ | 8½ | 46  | 40½ | 51½ | 45½ | 41½ | 30                     | 1½             | ½                  | ½               |
| 55   | 20½ | 20½ | 22½ | 22½ | 27½ | 25½ | 31½ | 25  | 14½ | 21  | 21  |     | 10½ | 34  | 36  | 9½ | 9½ | 50  | 42½ | 56½ | 50½ | 44½ | 33                     | 2½             | ½                  | ½               |
| 60   | 22½ | 20½ | 25  | 24  | 30  | 25½ | 33½ | 27  | 11½ | 20½ | 27½ |     | 11½ | 32½ | 34½ | 6½ | 14 | 54  | 45½ | 60½ | 45½ | 41  | 36                     | 1½             | ½                  | ½               |
| 70   | 25½ | 22½ | 30½ | 27½ | 34½ | 28½ | 39½ | 30½ | 12½ | 23½ | 30  |     | 13½ | 38½ | 39  | 7½ | 16 | 62½ | 53  | 70  | 51½ | 51½ | 42                     | 2½             | ½                  | ½               |
| 80   | 28½ | 28  | 29½ | 31  | 39  | 30½ | 45  | 35  | 13½ | 26½ | 34  | 24½ | 15½ | 42½ | 43  | 7½ | 18 | 70  | 57½ | 80  | 56½ | 57½ | 48                     | 2½             | ½                  | ½               |
| 90   | 30½ | 31  | 31½ | 34  | 44  | 33½ | 49  | 39  | 15½ | 29½ | 38½ | 28½ | 17½ | 47½ | 48  | 8½ | 20 | 78  | 65½ | 88  | 63½ | 64½ | 51                     | 2½             | ½                  | ½               |
| 100  | 32½ | 32  | 35½ | 37  | 49  | 34½ | 50  | 43  | 18  | 31½ | 42½ | 32½ | 19½ | 49½ | 50  | 8½ | 20 | 86  | 67½ | 93  | 68  | 68½ | 60                     | 2½             | ½                  | ½               |

Note:—Sizes 30-70 inclusive have circular outlets; sizes 80-90-100 have rectangular outlets.

Single Inlet

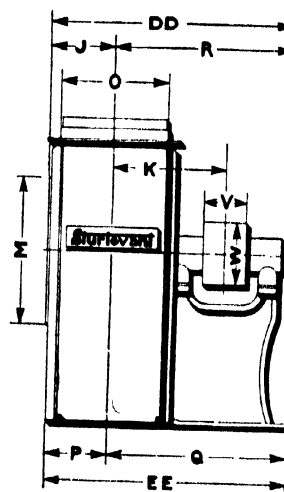
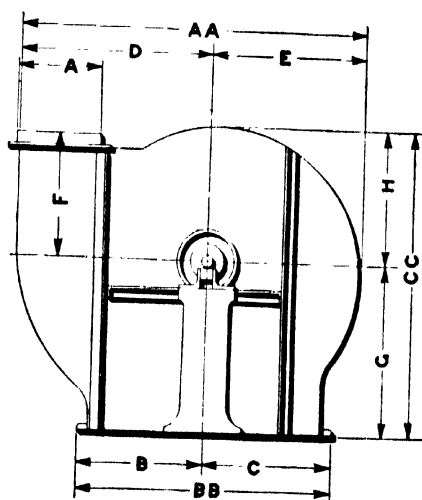
## Steel Plate Fan—Design 1

Single Width

Full Housing

Up Blast Discharge

Overhung Wheel



| Size | A  | B  | C  | D  | E  | F  | G  | H  | J  | K  | M  | O  | P  | Q  | R  | V | W  | AA | BB | CC | DD | EE | Extreme Wheel Diameter | Shaft Dia. | Anchor Bolts Hanger | Fan |
|------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---|----|----|----|----|----|----|------------------------|------------|---------------------|-----|
| 10   | 11 | 12 | 10 | 16 | 13 | 13 | 16 | 11 | 8  | 12 | 11 |    | 6  | 20 | 21 | 5 | 5  | 29 | 23 | 28 | 29 | 26 | 18                     | 1          | 1                   | 1   |
| 15   | 13 | 15 | 12 | 18 | 15 | 16 | 19 | 13 | 10 | 14 | 13 |    | 7  | 24 | 24 | 6 | 6  | 31 | 27 | 33 | 31 | 31 | 21                     | 1          | 1                   | 1   |
| 20   | 14 | 17 | 14 | 22 | 18 | 18 | 23 | 16 | 10 | 15 | 15 |    | 8  | 26 | 26 | 6 | 6  | 41 | 32 | 39 | 37 | 34 | 24                     | 1          | 1                   | 1   |
| 25   | 16 | 19 | 16 | 25 | 21 | 21 | 25 | 19 | 11 | 17 | 17 |    | 9  | 28 | 29 | 7 | 8  | 46 | 35 | 44 | 41 | 37 | 27                     | 1          | 1                   | 1   |
| 30   | 18 | 23 | 20 | 27 | 23 | 24 | 28 | 21 | 12 | 19 | 19 |    | 10 | 31 | 32 | 8 | 8  | 50 | 44 | 49 | 45 | 41 | 30                     | 1          | 1                   | 1   |
| 35   | 20 | 24 | 20 | 30 | 25 | 25 | 31 | 22 | 11 | 21 | 21 |    | 10 | 34 | 36 | 9 | 9  | 55 | 45 | 53 | 50 | 44 | 33                     | 2          | 2                   | 2   |
| 40   | 22 | 26 | 22 | 33 | 27 | 26 | 33 | 24 | 11 | 20 | 27 |    | 11 | 32 | 34 | 6 | 14 | 60 | 48 | 57 | 45 | 41 | 36                     | 1          | 1                   | 1   |
| 45   | 25 | 29 | 24 | 37 | 30 | 28 | 39 | 27 | 12 | 23 | 30 |    | 13 | 38 | 39 | 7 | 16 | 68 | 51 | 66 | 51 | 44 | 42                     | 2          | 2                   | 2   |
| 50   | 28 | 31 | 31 | 43 | 35 | 30 | 45 | 31 | 13 | 26 | 34 | 24 | 15 | 42 | 43 | 7 | 18 | 78 | 62 | 76 | 56 | 57 | 48                     | 2          | 2                   | 2   |
| 55   | 30 | 34 | 34 | 49 | 39 | 33 | 51 | 34 | 15 | 29 | 38 | 28 | 17 | 47 | 48 | 8 | 20 | 88 | 69 | 79 | 63 | 61 | 54                     | 2          | 2                   | 2   |
| 60   | 32 | 35 | 35 | 55 | 43 | 34 | 50 | 37 | 18 | 31 | 42 | 32 | 19 | 49 | 50 | 8 | 20 | 98 | 71 | 87 | 68 | 69 | 60                     | 2          | 2                   | 2   |

Note:—Sizes 30-70 inclusive have circular outlets; sizes 80-90-100 have rectangular outlets.

Single Inlet

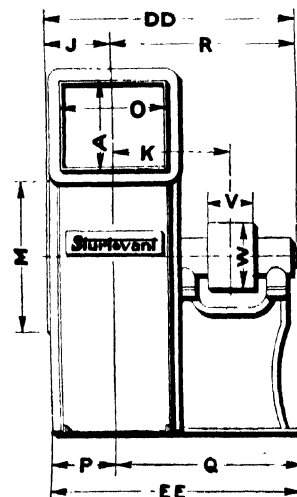
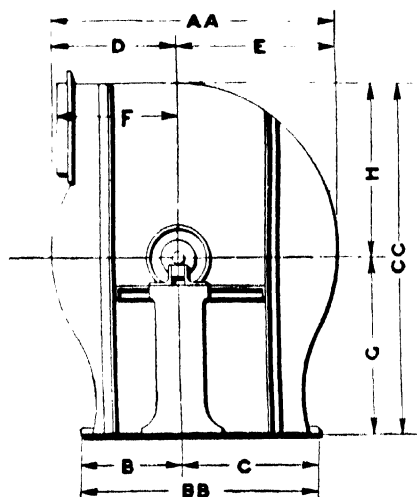
## Steel Plate Fan—Design 1

Single Width

Full Housing

Top Horizontal Discharge

Overhung Wheel



| Size | A  | B  | C  | D  | E  | F  | G  | H  | J  | K  | M  | O  | P  | Q  | R  | V | W  | AA | BB | CC  | DD | EE | Extreme Wheel Diameter | Shaft Diameter | Anchor Bolt Hanger | Bolts Fan |
|------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---|----|----|----|-----|----|----|------------------------|----------------|--------------------|-----------|
| 30   | 11 | 10 | 12 | 11 | 14 | 13 | 16 | 16 | 8  | 12 | 11 |    | 6  | 20 | 21 | 5 | 5  | 26 | 23 | 32  | 29 | 26 | 18                     | 1              | 1                  | 1         |
| 35   | 13 | 12 | 15 | 13 | 17 | 16 | 19 | 18 | 10 | 14 | 13 |    | 7  | 24 | 24 | 6 | 6  | 30 | 27 | 38  | 34 | 31 | 21                     | 1              | 1                  | 1         |
| 40   | 14 | 14 | 17 | 16 | 20 | 18 | 23 | 22 | 10 | 15 | 15 |    | 8  | 26 | 26 | 6 | 6  | 37 | 32 | 45  | 37 | 34 | 24                     | 1              | 1                  | 1         |
| 45   | 16 | 16 | 19 | 19 | 23 | 21 | 25 | 25 | 11 | 17 | 17 |    | 9  | 28 | 29 | 7 | 8  | 42 | 35 | 50  | 41 | 37 | 27                     | 1              | 1                  | 1         |
| 50   | 18 | 20 | 23 | 21 | 25 | 24 | 28 | 27 | 12 | 19 | 19 |    | 10 | 31 | 32 | 8 | 8  | 46 | 44 | 55  | 45 | 41 | 30                     | 1              | 1                  | 1         |
| 55   | 20 | 20 | 24 | 22 | 27 | 25 | 31 | 30 | 14 | 21 | 21 |    | 10 | 34 | 36 | 9 | 9  | 50 | 45 | 61  | 50 | 44 | 33                     | 2              | 2                  | 2         |
| 60   | 22 | 22 | 26 | 24 | 30 | 26 | 33 | 33 | 11 | 20 | 27 |    | 11 | 32 | 34 | 6 | 14 | 54 | 48 | 66  | 45 | 44 | 36                     | 1              | 1                  | 1         |
| 70   | 25 | 24 | 29 | 27 | 34 | 28 | 39 | 37 | 12 | 23 | 30 |    | 13 | 38 | 39 | 7 | 16 | 61 | 54 | 77  | 51 | 51 | 42                     | 2              | 2                  | 2         |
| 80   | 28 | 31 | 31 | 31 | 39 | 30 | 36 | 43 | 13 | 26 | 34 | 24 | 15 | 43 | 43 | 7 | 18 | 70 | 62 | 79  | 56 | 57 | 48                     | 2              | 2                  | 2         |
| 90   | 30 | 34 | 34 | 34 | 44 | 33 | 45 | 49 | 15 | 29 | 38 | 28 | 17 | 47 | 48 | 8 | 20 | 78 | 69 | 94  | 63 | 61 | 54                     | 2              | 2                  | 2         |
| 100  | 32 | 35 | 35 | 37 | 49 | 34 | 50 | 55 | 18 | 31 | 42 | 32 | 19 | 49 | 50 | 8 | 20 | 86 | 71 | 105 | 68 | 69 | 60                     | 2              | 2                  | 2         |

Note:—Sizes 30-70 inclusive have circular outlets; sizes 80-90-100 have rectangular outlets.

Single Inlet

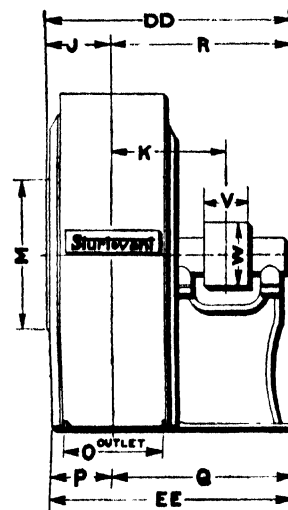
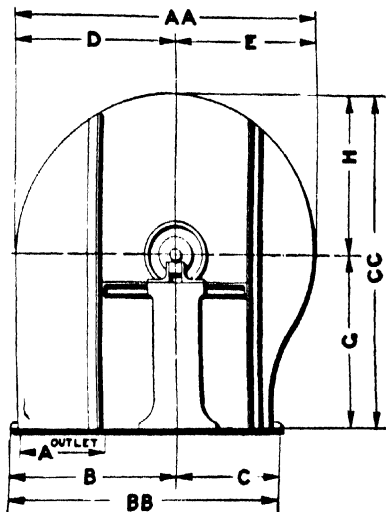
## Steel Plate Fan—Design 1

Single Width

Full Housing

Down Blast Discharge

Overhung Wheel



| Fan Size | A  | B   | C   | D   | E   | G   | H   | J   | K   | M   | O   | P   | Q   | R   | V   | W  | AA  | BB  | CC  | DD  | EE  | Extreme Wheel Diameter | Shaft Diameter | Anchor Bolt | Motor Fan |
|----------|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|-----|-----|-----|-----|-----|------------------------|----------------|-------------|-----------|
| 30       | 11 | 17½ | 11  | 16  | 13  | 16½ | 14½ | 8½  | 12  | 11  | 8½  | 6½  | 20½ | 21  | 5   | 5½ | 29  | 28½ | 31½ | 29½ | 26½ | 18                     | 1½             | ½           | ½         |
| 35       | 13 | 20½ | 13  | 18½ | 15½ | 19½ | 17½ | 10½ | 14½ | 13  | 9½  | 7½  | 24½ | 24½ | 6   | 6  | 34  | 33½ | 36½ | 34½ | 31½ | 21                     | 1½             | ½           | ½         |
| 40       | 15 | 24½ | 16  | 22½ | 18½ | 23½ | 20½ | 10½ | 15½ | 15  | 11  | 8   | 26  | 26½ | 6½  | 6½ | 41  | 40½ | 43½ | 37½ | 34  | 24                     | 1½             | ½           | ½         |
| 45       | 17 | 27½ | 18½ | 25  | 21  | 25½ | 23  | 11½ | 17½ | 17  | 12½ | 9   | 28½ | 29½ | 7½  | 8  | 46  | 45½ | 48½ | 41½ | 37½ | 27                     | 1½             | ½           | ½         |
| 50       | 18 | 29½ | 19½ | 27  | 23  | 28½ | 25  | 12½ | 19  | 19  | 13½ | 9½  | 31½ | 32½ | 8½  | 8½ | 50  | 49  | 53½ | 45½ | 41½ | 30                     | 1½             | ½           | ½         |
| 55       | 20 | 32½ | 21½ | 30  | 25  | 31½ | 27½ | 14½ | 21  | 21  | 15½ | 10½ | 34  | 36  | 9½  | 9½ | 55  | 54½ | 58½ | 50½ | 44½ | 33                     | 2½             | ½           | ½         |
| 60       | 22 | 35½ | 23½ | 33  | 27  | 33½ | 30  | 11½ | 20½ | 27½ | 16½ | 11½ | 32½ | 34½ | 10½ | 14 | 60  | 59½ | 63½ | 45½ | 44½ | 36                     | 1½             | ½           | ½         |
| 70       | 24 | 40½ | 26½ | 37½ | 30½ | 39½ | 34½ | 12½ | 23½ | 30  | 19½ | 13½ | 38½ | 39  | 7½  | 16 | 68½ | 67½ | 73½ | 51½ | 51½ | 42                     | 2½             | ½           | ½         |
| 80       | 28 | 46½ | 31  | 43  | 35  | 36½ | 39  | 13½ | 26½ | 34  | 23½ | 15½ | 42½ | 43  | 7½  | 18 | 78  | 77½ | 75½ | 56½ | 57½ | 48                     | 2½             | ½           | ½         |
| 90       | 30 | 52½ | 34½ | 49  | 39  | 45  | 44  | 15½ | 29½ | 38½ | 27½ | 17½ | 47½ | 48  | 8½  | 20 | 88  | 87  | 89  | 63½ | 64½ | 54                     | 2½             | ½           | ½         |
| 100      | 32 | 58½ | 35½ | 55  | 43  | 50  | 49  | 18  | 31½ | 42½ | 31  | 19½ | 49½ | 50  | 8½  | 20 | 98  | 94  | 99  | 68  | 68½ | 60                     | 2½             | ½           | ½         |



Single Inlet

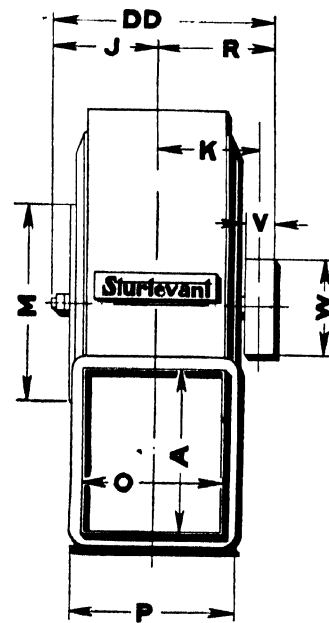
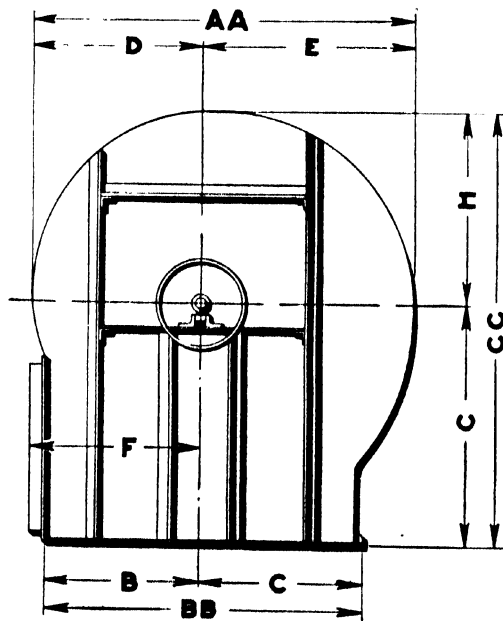
## Steel Plate Fan — Design 1

Single Width

Full Housing

Bottom Horizontal Discharge

Overhung Pulley



| Fan Size | A   | B   | C   | D   | E   | F   | G   | H   | J   | K   | M    | O   | P   | R   | V   | W  | AA  | BB  | CC   | DD   | Extreme Wheel Dia | Shaft Dia. | Anchor Bolts |
|----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|----|-----|-----|------|------|-------------------|------------|--------------|
| 60       | 22½ | 20½ | 25  | 24  | 30  | 25½ | 33½ | 27  | 18½ | 18½ | 27½  |     | 22½ | 21½ | 6½  | 14 | 54  | 45½ | 60½  | 40   | 36                | 1½         | 2            |
| 70       | 25½ | 22½ | 30½ | 27½ | 34½ | 28½ | 39½ | 30½ | 20½ | 21½ | 30   |     | 27½ | 25½ | 7½  | 16 | 61½ | 53  | 68   | 45½  | 42                | 2½         | 2            |
| 80       | 28½ | 28  | 30½ | 31  | 39  | 30½ | 45  | 35  | 22½ | 23½ | 34   | 24½ | 30½ | 27½ | 7½  | 18 | 70  | 57½ | 80   | 50½  | 48                | 2½         | 2            |
| 90       | 30½ | 31  | 34½ | 34  | 44  | 34½ | 49  | 39  | 24½ | 25½ | 38½  | 28½ | 34½ | 30  | 8½  | 20 | 78  | 65½ | 88   | 54½  | 54                | 2½         | 2            |
| 100      | 32½ | 32  | 35½ | 37  | 49  | 36½ | 53½ | 43  | 27  | 28  | 42½  | 32½ | 38½ | 32½ | 8½  | 20 | 86  | 67½ | 96½  | 59½  | 60                | 2½         | 2            |
| 110      | 36½ | 36  | 40½ | 40½ | 53½ | 40½ | 59  | 47  | 29  | 30½ | 47   | 36½ | 44  | 35  | 9½  | 22 | 94  | 76½ | 106  | 64   | 66                | 2½         | 2            |
| 120      | 42½ | 41  | 46  | 44  | 58  | 44½ | 63  | 51  | 33  | 34½ | 52½  | 42½ | 51  | 39  | 9½  | 24 | 102 | 87  | 114  | 72   | 72                | 2½         | 2            |
| 140      | 48½ | 44  | 49  | 50  | 68  | 47½ | 73½ | 59  | 36½ | 38½ | 60½  | 48½ | 57  | 44½ | 12½ | 28 | 118 | 83  | 132½ | 81   | 84                | 3½         | 2            |
| 160      | 54½ | 53  | 59  | 57  | 77  | 56½ | 80  | 67  | 38  | 39½ | 68½  | 48½ | 59  | 46  | 12½ | 36 | 134 | 112 | 147  | 84   | 96                | 3½         | 2            |
| 180      | 60½ | 60  | 66  | 65  | 87  | 64½ | 94  | 76  | 41  | 42½ | 77   | 55  | 65  | 49  | 12½ | 36 | 152 | 126 | 170  | 90   | 108               | 3½         | 2            |
| 200      | 72½ | 70  | 84  | 72  | 96  | 75  | 104 | 84  | 44½ | 47  | 85½  | 61  | 71  | 53½ | 12½ | 42 | 178 | 154 | 188  | 97½  | 120               | 4½         | 1            |
| 240      | 84½ | 84  | 96  | 90  | 118 | 89  | 126 | 104 | 53  | 53½ | 102½ | 73  | 84  | 63½ | 20½ | 48 | 208 | 180 | 230  | 116½ | 144               | 5          | 1            |

Single Inlet

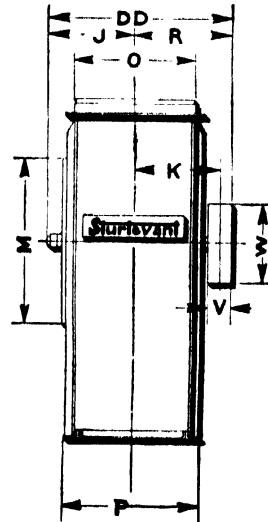
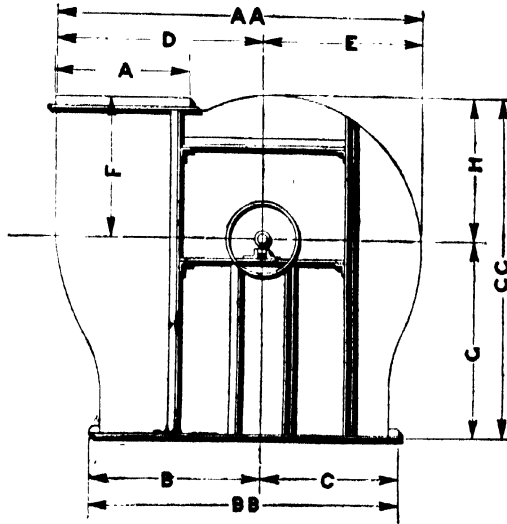
## Steel Plate Fan—Design 1

Single Width

Full Housing

Up Blast Discharge

Overhung Pulley



| Fan<br>Size | A  | B   | C  | D   | E   | F  | G   | H  | J  | K  | M   | O  | P  | R  | V  | W  | AA  | BB  | CC  | DD  | Extreme<br>Wheel<br>Diameter | Shaft<br>In. | Anchor<br>Bolts |
|-------------|----|-----|----|-----|-----|----|-----|----|----|----|-----|----|----|----|----|----|-----|-----|-----|-----|------------------------------|--------------|-----------------|
| 50          | 18 | 23  | 20 | 27  | 23  | 20 | 28  | 21 | 16 | 17 | 21  |    | 20 | 19 | 5  | 12 | 50  | 44  | 49  | 36  | 30                           | 1 1/2        | 2               |
| 60          | 22 | 26  | 22 | 33  | 27  | 22 | 33  | 24 | 18 | 18 | 27  |    | 22 | 21 | 6  | 14 | 60  | 48  | 57  | 39  | 36                           | 1 1/2        | 2               |
| 70          | 25 | 29  | 24 | 37  | 30  | 24 | 39  | 27 | 20 | 21 | 30  |    | 27 | 25 | 7  | 16 | 68  | 54  | 66  | 45  | 42                           | 2 1/2        | 2               |
| 80          | 28 | 31  | 31 | 43  | 35  | 30 | 45  | 31 | 22 | 23 | 34  | 24 | 30 | 27 | 7  | 18 | 78  | 62  | 76  | 50  | 48                           | 2 1/2        | 2               |
| 90          | 30 | 31  | 34 | 49  | 39  | 31 | 45  | 34 | 24 | 25 | 38  | 28 | 34 | 30 | 8  | 20 | 88  | 69  | 79  | 54  | 54                           | 2 1/2        | 2               |
| 100         | 32 | 35  | 35 | 55  | 43  | 36 | 50  | 37 | 26 | 27 | 42  | 32 | 38 | 32 | 8  | 20 | 98  | 71  | 87  | 58  | 60                           | 2 1/2        | 2               |
| 110         | 36 | 40  | 40 | 60  | 47  | 40 | 54  | 40 | 29 | 30 | 47  | 36 | 44 | 35 | 9  | 22 | 107 | 81  | 95  | 64  | 66                           | 2 1/2        | 2               |
| 120         | 42 | 46  | 46 | 65  | 51  | 41 | 63  | 44 | 33 | 34 | 52  | 42 | 51 | 39 | 10 | 24 | 116 | 92  | 107 | 72  | 72                           | 2 1/2        | 2               |
| 140         | 48 | 49  | 49 | 77  | 59  | 45 | 73  | 50 | 36 | 38 | 60  | 48 | 57 | 44 | 12 | 28 | 136 | 98  | 123 | 81  | 84                           | 3 1/2        | 2               |
| 160         | 54 | 59  | 59 | 87  | 67  | 49 | 80  | 57 | 38 | 39 | 68  | 48 | 58 | 46 | 12 | 32 | 154 | 118 | 137 | 84  | 96                           | 3 1/2        | 2               |
| 180         | 61 | 73  | 63 | 98  | 76  | 57 | 91  | 65 | 41 | 42 | 77  | 55 | 64 | 49 | 12 | 36 | 174 | 136 | 156 | 90  | 108                          | 3 1/2        | 2               |
| 200         | 73 | 90  | 72 | 108 | 81  | 68 | 100 | 72 | 44 | 46 | 85  | 61 | 70 | 52 | 12 | 42 | 192 | 162 | 172 | 96  | 120                          | 4 1/2        | 2               |
| 220         | 79 | 100 | 76 | 118 | 91  | 73 | 111 | 81 | 48 | 49 | 94  | 67 | 76 | 57 | 14 | 48 | 212 | 176 | 192 | 105 | 132                          | 5            | 2               |
| 240         | 85 | 110 | 86 | 128 | 104 | 81 | 122 | 90 | 51 | 53 | 102 | 73 | 82 | 60 | 14 | 48 | 236 | 192 | 212 | 111 | 144                          | 5            | 2               |

Note:—Sizes 50, 60 and 70 have circular outlets; Sizes 80 to 240 inclusive have rectangular outlets.

Single Inlet

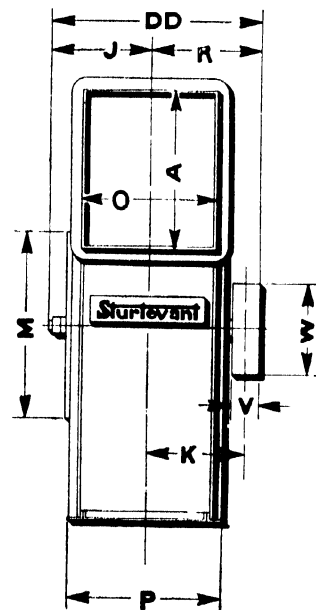
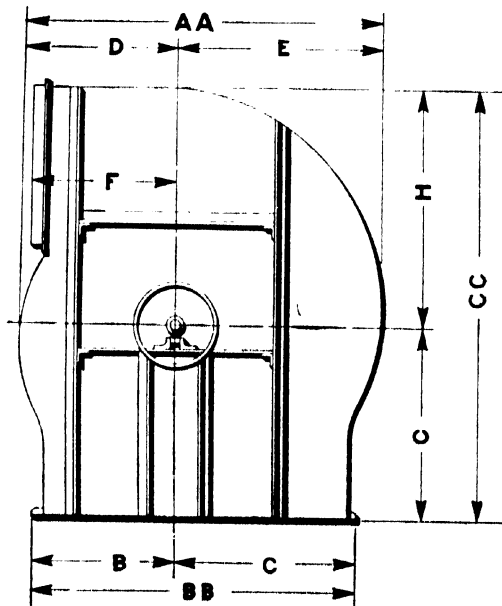
## Steel Plate Fan — Design 1

Single Width

Full Housing

Top Horizontal Discharge

Overhung Pulley



| Fan Size | A   | B   | C   | D   | E   | F   | G   | H   | J   | K   | M    | O   | P   | R   | V   | W  | AA  | BB  | CC   | DD   | Extreme Wheel Diameter | Shaft Dia. | Anchor Bolts |
|----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|----|-----|-----|------|------|------------------------|------------|--------------|
| 50       | 18½ | 18½ | 22  | 21  | 25  | 23½ | 28½ | 23  | 16½ | 17½ | 21½  |     | 20  | 19½ | 5½  | 12 | 46  | 40½ | 51½  | 36½  | 30                     | 1 11/16    | 5            |
| 60       | 22½ | 20½ | 25  | 24  | 30  | 26½ | 33½ | 27  | 18½ | 18½ | 27½  |     | 22½ | 21½ | 6½  | 14 | 54  | 45½ | 60½  | 39½  | 36                     | 1 11/16    | 5            |
| 70       | 25½ | 22½ | 30½ | 27½ | 31  | 28½ | 39½ | 30½ | 20½ | 21½ | 30   |     | 27  | 25½ | 7½  | 16 | 61½ | 53  | 70   | 45½  | 42                     | 2 1/8      | 3            |
| 80       | 28½ | 28  | 29  | 31  | 39  | 30½ | 45½ | 35  | 22½ | 23½ | 34   | 24½ | 30  | 27½ | 7½  | 18 | 70  | 57½ | 80½  | 50½  | 48                     | 2 1/8      | 3            |
| 90       | 30½ | 31½ | 31½ | 34  | 41  | 31½ | 51½ | 39  | 24½ | 25½ | 38½  | 28½ | 34  | 30½ | 8½  | 20 | 78  | 66½ | 90½  | 54½  | 54                     | 2 1/8      | 3            |
| 100      | 32½ | 33½ | 35½ | 37  | 49  | 36½ | 57½ | 43  | 26½ | 27½ | 42½  | 32½ | 38  | 32½ | 8½  | 20 | 86  | 69½ | 100½ | 58½  | 60                     | 2 1/8      | 3            |
| 110      | 36½ | 38  | 40½ | 40½ | 53½ | 40½ | 63  | 47  | 29  | 30½ | 47   | 36½ | 41  | 35½ | 9½  | 22 | 94  | 78½ | 110  | 64½  | 66                     | 2 1/8      | 3            |
| 120      | 42½ | 38  | 46  | 41  | 58  | 41½ | 69  | 51  | 33  | 34½ | 52½  | 42½ | 51  | 39½ | 10½ | 24 | 102 | 84  | 120  | 72½  | 72                     | 2 1/8      | 3            |
| 140      | 48½ | 42  | 49  | 50  | 68  | 45½ | 81  | 59  | 36½ | 38½ | 60½  | 48½ | 57  | 44½ | 12½ | 28 | 118 | 91  | 140  | 81   | 84                     | 3 1/8      | 3            |
| 160      | 54½ | 46  | 59  | 57  | 77  | 49½ | 91  | 67  | 38  | 39½ | 68½  | 48½ | 58  | 46  | 12½ | 32 | 134 | 105 | 158  | 81   | 96                     | 3 1/8      | 3            |
| 180      | 61  | 53  | 66  | 65  | 87  | 57½ | 102 | 76  | 41  | 42½ | 77   | 55  | 64  | 49  | 12½ | 36 | 152 | 117 | 178  | 90   | 108                    | 3 1/8      | 3            |
| 200      | 73  | 64  | 81  | 72  | 96  | 68½ | 112 | 81  | 44  | 46  | 85½  | 61  | 70  | 60½ | 12½ | 42 | 168 | 148 | 196  | 105½ | 120                    | 4½         | 1            |
| 220      | 79  | 76  | 96  | 90  | 118 | 81  | 136 | 104 | 53  | 53½ | 102½ | 73  | 82½ | 60½ | 14½ | 48 | 208 | 172 | 240  | 111½ | 111                    | 5          | 2            |
| 240      | 85  | 68  | 90  | 81  | 107 | 73  | 121 | 91  | 48  | 49  | 91   | 67  | 76½ | 57  | 11½ | 48 | 188 | 158 | 218  | 105  | 132                    | 5          | 2            |

Sizes No. 50, 60, and 70 have circular outlets. Sizes 80-240 inclusive have rectangular outlets.

Single Inlet

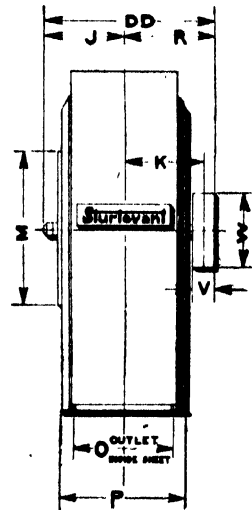
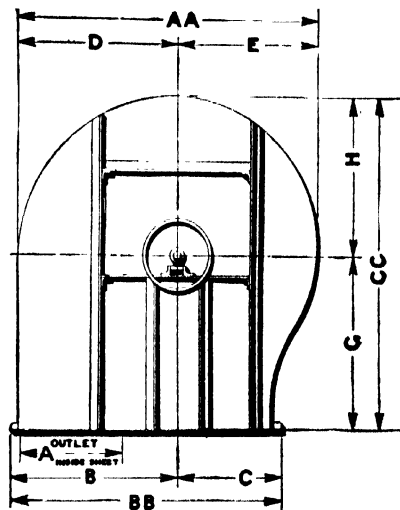
## Steel Plate Fan—Design 1

Single Width

Full Housing

Down Blast Discharge

Overhung Pulley



| Fan Size | A  | B                | C                | D                | E                | G                | H                | J                | K                | M                 | O  | F                | R                | V                | W  | AA               | BB               | CC                | DD                | Extreme Wheel Diameter | Shaft Dia.        | Anchor Bolts |
|----------|----|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|----|------------------|------------------|------------------|----|------------------|------------------|-------------------|-------------------|------------------------|-------------------|--------------|
| 60       | 22 | 36 $\frac{1}{2}$ | 24 $\frac{1}{2}$ | 33               | 27               | 33 $\frac{1}{2}$ | 30               | 18 $\frac{1}{4}$ | 18 $\frac{1}{2}$ | 27 $\frac{1}{2}$  | 18 | 22 $\frac{1}{2}$ | 21 $\frac{1}{2}$ | 6 $\frac{1}{2}$  | 14 | 60               | 61               | 63 $\frac{1}{2}$  | 40                | 36                     | 1 $\frac{1}{2}$   | 3            |
| 70       | 24 | 41 $\frac{1}{2}$ | 27 $\frac{1}{2}$ | 37 $\frac{1}{2}$ | 30 $\frac{3}{4}$ | 39 $\frac{1}{2}$ | 34 $\frac{1}{2}$ | 20 $\frac{1}{2}$ | 21 $\frac{1}{2}$ | 30                | 21 | 27               | 25 $\frac{1}{4}$ | 7 $\frac{1}{2}$  | 16 | 68 $\frac{1}{2}$ | 68 $\frac{1}{2}$ | 73 $\frac{1}{2}$  | 45 $\frac{1}{4}$  | 42                     | 2 $\frac{3}{8}$   | 3            |
| 80       | 28 | 46 $\frac{1}{2}$ | 31               | 43               | 35               | 41 $\frac{1}{2}$ | 39               | 27 $\frac{1}{2}$ | 23 $\frac{1}{2}$ | 34                | 24 | 30 $\frac{1}{2}$ | 27 $\frac{1}{2}$ | 7 $\frac{1}{2}$  | 18 | 78               | 77 $\frac{1}{2}$ | 80 $\frac{1}{2}$  | 50 $\frac{1}{2}$  | 48                     | 2 $\frac{7}{8}$   | 3            |
| 90       | 30 | 52 $\frac{1}{2}$ | 34 $\frac{1}{2}$ | 49               | 39               | 41 $\frac{1}{2}$ | 44               | 24 $\frac{1}{2}$ | 25 $\frac{1}{2}$ | 38 $\frac{1}{2}$  | 28 | 34 $\frac{1}{2}$ | 30               | 8 $\frac{1}{2}$  | 20 | 88               | 87               | 85 $\frac{1}{2}$  | 54 $\frac{1}{2}$  | 54                     | 2 $\frac{7}{8}$   | 3            |
| 100      | 32 | 58 $\frac{1}{2}$ | 35 $\frac{1}{2}$ | 55               | 43               | 47               | 49               | 27               | 28               | 42 $\frac{1}{2}$  | 32 | 38 $\frac{1}{2}$ | 32 $\frac{1}{2}$ | 8 $\frac{1}{2}$  | 20 | 98               | 94               | 96                | 59 $\frac{1}{2}$  | 60                     | 2 $\frac{7}{8}$   | 3            |
| 110      | 36 | 61 $\frac{1}{2}$ | 40 $\frac{1}{2}$ | 60               | 47               | 51               | 53 $\frac{1}{2}$ | 29               | 30 $\frac{1}{2}$ | 47                | 36 | 44               | 35               | 9 $\frac{1}{2}$  | 22 | 107              | 105              | 104 $\frac{1}{2}$ | 64                | 66                     | 2 $\frac{11}{16}$ | 3            |
| 120      | 42 | 70               | 46               | 65               | 51               | 55               | 58               | 33               | 31 $\frac{1}{2}$ | 52 $\frac{1}{2}$  | 42 | 51               | 39               | 9 $\frac{1}{2}$  | 24 | 116              | 116              | 113               | 72                | 72                     | 2 $\frac{11}{16}$ | 3            |
| 140      | 48 | 82               | 49               | 77               | 59               | 64               | 68               | 36 $\frac{1}{2}$ | 38 $\frac{1}{2}$ | 60 $\frac{1}{2}$  | 48 | 57               | 44 $\frac{1}{2}$ | 12 $\frac{1}{2}$ | 28 | 136              | 131              | 132               | 81                | 84                     | 3 $\frac{7}{8}$   | 3            |
| 160      | 54 | 93               | 59               | 87               | 67               | 72               | 77               | 38               | 39 $\frac{1}{2}$ | 68 $\frac{1}{2}$  | 48 | 59               | 46               | 12 $\frac{1}{2}$ | 36 | 154              | 152              | 149               | 84                | 96                     | 3 $\frac{11}{16}$ | 3            |
| 180      | 60 | 104              | 68               | 98               | 76               | 80               | 87               | 41               | 42 $\frac{1}{2}$ | 77                | 54 | 65               | 49               | 12 $\frac{1}{2}$ | 36 | 174              | 172              | 167               | 90                | 108                    | 3 $\frac{11}{16}$ | 3            |
| 200      | 72 | 113              | 72               | 108              | 84               | 88               | 96               | 41 $\frac{1}{2}$ | 47               | 85 $\frac{1}{2}$  | 60 | 71               | 53 $\frac{1}{2}$ | 12 $\frac{1}{2}$ | 42 | 192              | 185              | 184               | 97 $\frac{1}{2}$  | 120                    | 4 $\frac{1}{2}$   | 1            |
| 240      | 84 | 137              | 81               | 132              | 101              | 108              | 118              | 53               | 53 $\frac{1}{2}$ | 102 $\frac{1}{2}$ | 72 | 84               | 63 $\frac{1}{2}$ | 20 $\frac{1}{2}$ | 48 | 236              | 221              | 226               | 116 $\frac{1}{2}$ | 144                    | 5                 | 1            |

Double Inlet

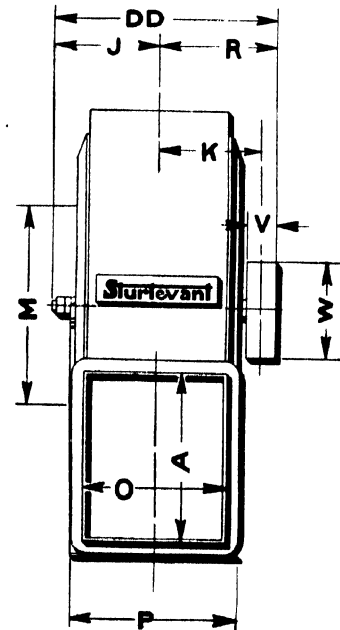
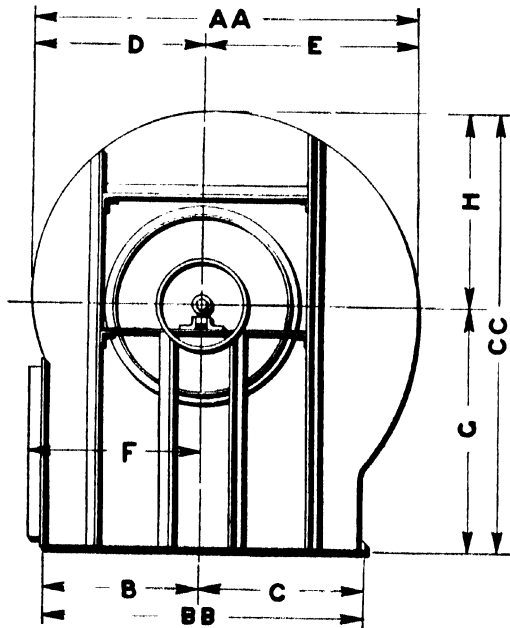
## Steel Plate Fan—Design 1

Single Width

Full Housing

Bottom Horizontal Discharge

Overhung Pulley



| Fan Size | A   | B   | C   | D   | E   | F   | G   | H   | J   | K   | M   | O   | P   | R   | V   | W  | AA  | BB  | CC   | DD   | Extreme Wheel Diameter | Shaft Diameter | Anchor Bolts |
|----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|-----|-----|------|------|------------------------|----------------|--------------|
| 50       | 18½ | 18½ | 22  | 21  | 25  | 20½ | 28½ | 23  | 16½ | 17½ | 20½ |     | 20  | 19½ | 5½  | 12 | 46  | 40½ | 51½  | 36½  | 30                     | 1 11/16        | 2            |
| 60       | 22½ | 20½ | 25  | 24  | 30  | 22½ | 33½ | 27  | 18½ | 18½ | 26½ |     | 22½ | 21½ | 6½  | 14 | 54  | 45½ | 60½  | 39½  | 36                     | 1 13/16        | 2            |
| 70       | 25½ | 22½ | 30½ | 27½ | 34½ | 24½ | 39½ | 30½ | 20½ | 21½ | 29½ |     | 27  | 25  | 7½  | 16 | 61½ | 53  | 70   | 45½  | 42                     | 2 3/16         | 3            |
| 80       | 28½ | 28  | 29½ | 31  | 39  | 30½ | 45½ | 35  | 22½ | 23½ | 33½ | 24½ | 30  | 27½ | 7½  | 18 | 70  | 57½ | 80½  | 50½  | 48                     | 2 7/16         | 3            |
| 90       | 30½ | 31½ | 34½ | 34  | 44  | 34½ | 51½ | 39  | 24½ | 25½ | 36½ | 28½ | 34  | 30½ | 8½  | 20 | 78  | 66½ | 90½  | 54½  | 54                     | 2 7/16         | 3            |
| 100      | 32½ | 33½ | 35½ | 37  | 49  | 36½ | 57½ | 43  | 26½ | 27½ | 40½ | 32½ | 38  | 32½ | 8½  | 20 | 86  | 69½ | 100½ | 58½  | 60                     | 2 7/16         | 3            |
| 110      | 36½ | 38  | 40½ | 40½ | 53½ | 40½ | 63  | 47  | 29  | 30½ | 45½ | 36½ | 44  | 35½ | 9½  | 22 | 94  | 78½ | 110  | 64½  | 66                     | 2 11/16        | 3            |
| 120      | 42½ | 38  | 46  | 44  | 58  | 41½ | 69  | 51  | 33  | 34½ | 50  | 42½ | 51  | 39½ | 10½ | 24 | 102 | 84  | 120  | 72½  | 72                     | 2 11/16        | 3            |
| 140      | 48½ | 42  | 49  | 50  | 68  | 45½ | 81  | 59  | 36½ | 38½ | 57½ | 48½ | 57  | 41½ | 12½ | 28 | 118 | 91  | 140  | 81   | 81                     | 3 1/16         | 3            |
| 160      | 54½ | 46  | 59  | 57  | 77  | 49½ | 91  | 67  | 38  | 39½ | 65½ | 48½ | 58½ | 46  | 12½ | 32 | 134 | 105 | 158  | 84   | 96                     | 3 11/16        | 3            |
| 180      | 61  | 53  | 66  | 65  | 87  | 57½ | 102 | 76  | 41  | 42½ | 74½ | 55  | 64½ | 49  | 12½ | 36 | 152 | 119 | 178  | 90   | 108                    | 3 11/16        | 3            |
| 200      | 73  | 64  | 84  | 72  | 96  | 68½ | 112 | 84  | 44½ | 46  | 82½ | 61  | 70½ | 52½ | 12½ | 42 | 168 | 148 | 196  | 96½  | 120                    | 4½             | 3            |
| 220      | 79  | 68  | 90  | 81  | 107 | 73  | 124 | 94  | 48  | 49½ | 90½ | 67  | 76½ | 57  | 14½ | 48 | 188 | 158 | 218  | 105  | 132                    | 5              | 3            |
| 240      | 85  | 76  | 96  | 90  | 118 | 81  | 136 | 104 | 51½ | 53½ | 98½ | 73  | 82½ | 60½ | 14½ | 48 | 208 | 172 | 240  | 111½ | 144                    | 5              | 3            |

NOTE:—Sizes, 50, 60, and 70 have circular outlets. Sizes 80 to 240 inclusive have rectangular outlets.

Double Inlet

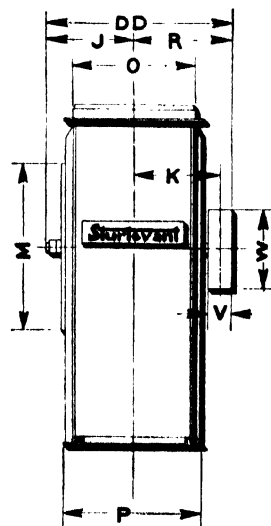
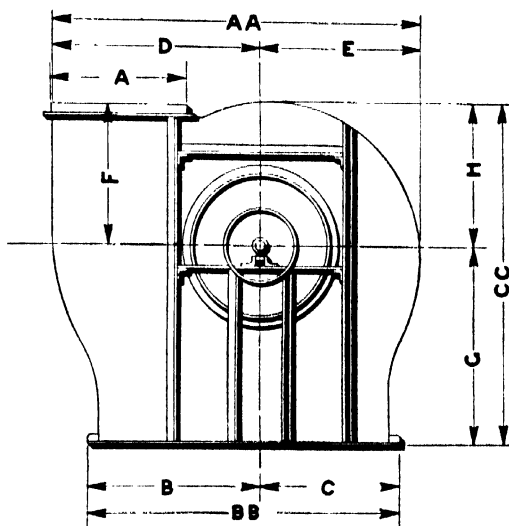
## Steel Plate Fan—Design 1

Single Width

Full Housing

Up Blast Discharge

Overhung Pulley



| Fan Size | A  | B   | C  | D   | E   | F  | G   | H  | J  | K  | M  | O  | P  | R  | V  | W  | AA  | BB  | CC  | DD  | Extreme Wheel Dia. | Shaft Dia. | Anchor Bolts |
|----------|----|-----|----|-----|-----|----|-----|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|--------------------|------------|--------------|
| 50       | 18 | 23  | 20 | 27  | 23  | 20 | 28  | 21 | 16 | 17 | 20 |    | 20 | 19 | 5  | 12 | 50  | 44  | 49  | 36  | 30                 | 1 1/4      | 2            |
| 60       | 22 | 26  | 22 | 33  | 27  | 22 | 33  | 24 | 18 | 18 | 26 |    | 22 | 21 | 6  | 14 | 60  | 48  | 57  | 39  | 36                 | 1 1/2      | 2            |
| 70       | 25 | 29  | 24 | 37  | 30  | 24 | 39  | 27 | 20 | 21 | 29 |    | 27 | 25 | 7  | 16 | 68  | 54  | 66  | 45  | 42                 | 2 1/8      | 3            |
| 80       | 28 | 31  | 31 | 43  | 35  | 30 | 45  | 31 | 22 | 23 | 33 | 24 | 30 | 27 | 7  | 18 | 78  | 62  | 76  | 50  | 48                 | 2 1/8      | 4            |
| 90       | 30 | 34  | 34 | 49  | 39  | 34 | 45  | 34 | 24 | 25 | 36 | 28 | 34 | 30 | 8  | 20 | 88  | 69  | 79  | 54  | 54                 | 2 1/8      | 4            |
| 100      | 32 | 35  | 35 | 55  | 43  | 36 | 50  | 37 | 26 | 27 | 40 | 32 | 38 | 32 | 8  | 20 | 98  | 71  | 87  | 58  | 60                 | 2 1/8      | 4            |
| 110      | 36 | 40  | 40 | 60  | 47  | 40 | 54  | 40 | 29 | 30 | 45 | 36 | 44 | 35 | 9  | 22 | 107 | 81  | 95  | 64  | 66                 | 2 1/8      | 4            |
| 120      | 42 | 46  | 46 | 65  | 51  | 41 | 63  | 44 | 33 | 34 | 50 | 42 | 51 | 39 | 10 | 24 | 116 | 92  | 107 | 72  | 72                 | 2 1/8      | 4            |
| 140      | 48 | 49  | 49 | 77  | 59  | 45 | 73  | 50 | 36 | 38 | 57 | 48 | 57 | 44 | 12 | 28 | 136 | 98  | 123 | 81  | 84                 | 3 1/8      | 4            |
| 160      | 54 | 59  | 59 | 87  | 67  | 49 | 80  | 57 | 38 | 39 | 65 | 48 | 58 | 46 | 12 | 32 | 154 | 118 | 137 | 84  | 96                 | 3 1/8      | 4            |
| 180      | 61 | 73  | 63 | 98  | 76  | 57 | 91  | 65 | 41 | 42 | 74 | 55 | 64 | 49 | 12 | 36 | 174 | 136 | 156 | 90  | 108                | 3 1/8      | 4            |
| 200      | 73 | 90  | 72 | 108 | 84  | 68 | 100 | 72 | 44 | 46 | 82 | 61 | 70 | 52 | 12 | 42 | 192 | 162 | 172 | 96  | 120                | 4          | 4            |
| 220      | 79 | 100 | 76 | 118 | 94  | 73 | 111 | 81 | 48 | 49 | 90 | 67 | 76 | 57 | 14 | 48 | 212 | 176 | 192 | 105 | 132                | 5          | 4            |
| 240      | 85 | 110 | 86 | 128 | 104 | 81 | 122 | 90 | 51 | 53 | 98 | 73 | 82 | 60 | 14 | 48 | 232 | 196 | 212 | 111 | 144                | 5          | 4            |

NOTE:—Sizes 50, 60 and 70 have circular outlets. Sizes 80 to 240 inclusive have rectangular outlets.

Double Inlet

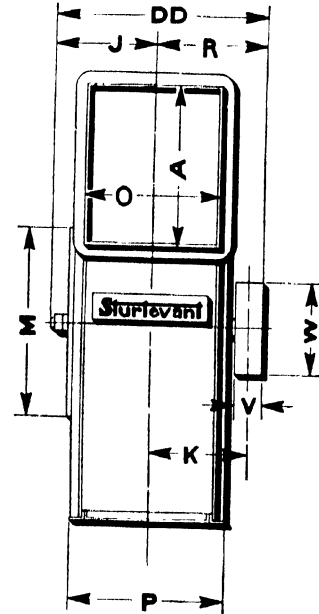
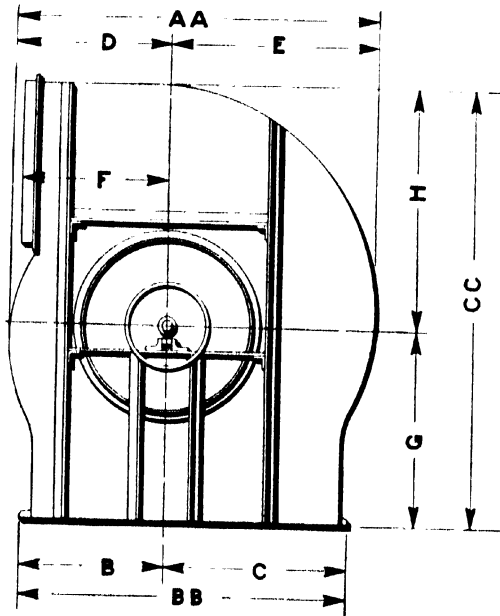
## Steel Plate Fan—Design 1

Single Width

Full Housing

Top Horizontal Discharge

Overhung Pulley



| Fan Size | A                | B                | C                | D                | E                | F                | G                | H                | J                | K                | M                | O                | P                | R                | V                | W  | AA               | BB  | CC                | DD                | Extreme Wheel Diameter | Shaft Diameter  | Anchor Bolts |
|----------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|----|------------------|-----|-------------------|-------------------|------------------------|-----------------|--------------|
| 50       | 18 $\frac{1}{4}$ | 20 $\frac{1}{2}$ | 23 $\frac{1}{2}$ | 21               | 25               | 20 $\frac{1}{2}$ | 28 $\frac{1}{2}$ | 27               | 16 $\frac{1}{2}$ | 17 $\frac{1}{2}$ | 20 $\frac{1}{2}$ |                  | 20               | 19 $\frac{1}{2}$ | 5 $\frac{1}{2}$  | 12 | 46               | 44  | 55 $\frac{1}{2}$  | 36 $\frac{1}{2}$  | 30                     | 1 $\frac{1}{8}$ | 2            |
| 60       | 22 $\frac{1}{4}$ | 22               | 26               | 24               | 30               | 22 $\frac{1}{2}$ | 33 $\frac{1}{2}$ | 33               | 18 $\frac{1}{2}$ | 18 $\frac{1}{2}$ | 26 $\frac{1}{2}$ |                  | 22 $\frac{1}{2}$ | 21 $\frac{1}{2}$ | 6 $\frac{1}{2}$  | 14 | 54               | 48  | 66 $\frac{1}{2}$  | 39 $\frac{1}{2}$  | 36                     | 1 $\frac{1}{8}$ | 2            |
| 70       | 25 $\frac{1}{4}$ | 24 $\frac{1}{2}$ | 29 $\frac{1}{2}$ | 27 $\frac{1}{2}$ | 34 $\frac{1}{2}$ | 24 $\frac{1}{2}$ | 39 $\frac{1}{2}$ | 37 $\frac{1}{2}$ | 20 $\frac{1}{2}$ | 21 $\frac{1}{2}$ | 29 $\frac{1}{2}$ |                  | 27               | 25               | 7 $\frac{1}{2}$  | 16 | 61 $\frac{1}{2}$ | 54  | 77                | 45 $\frac{1}{2}$  | 42                     | 2 $\frac{3}{8}$ | 2            |
| 80       | 28 $\frac{1}{2}$ | 31               | 31               | 31               | 39               | 30 $\frac{1}{2}$ | 36 $\frac{1}{2}$ | 43               | 22 $\frac{1}{2}$ | 23 $\frac{1}{2}$ | 33 $\frac{1}{2}$ | 24 $\frac{1}{2}$ | 30               | 27 $\frac{1}{2}$ | 7 $\frac{1}{2}$  | 18 | 70               | 62  | 79 $\frac{1}{2}$  | 50 $\frac{1}{2}$  | 48                     | 2 $\frac{3}{8}$ | 2            |
| 90       | 30 $\frac{1}{2}$ | 34 $\frac{1}{2}$ | 34 $\frac{1}{2}$ | 34               | 41               | 34 $\frac{1}{2}$ | 45               | 49               | 24 $\frac{1}{2}$ | 25 $\frac{1}{2}$ | 36 $\frac{1}{2}$ | 28 $\frac{1}{2}$ | 34               | 30 $\frac{1}{2}$ | 8 $\frac{1}{2}$  | 20 | 78               | 69  | 94                | 54 $\frac{1}{2}$  | 54                     | 2 $\frac{3}{8}$ | 2            |
| 100      | 32 $\frac{1}{2}$ | 35 $\frac{1}{2}$ | 35 $\frac{1}{2}$ | 37               | 49               | 36 $\frac{1}{2}$ | 50               | 55               | 26 $\frac{1}{2}$ | 27 $\frac{1}{2}$ | 40 $\frac{1}{2}$ | 32 $\frac{1}{2}$ | 38               | 32 $\frac{1}{2}$ | 8 $\frac{1}{2}$  | 20 | 86               | 71  | 105               | 58 $\frac{1}{2}$  | 60                     | 2 $\frac{3}{8}$ | 2            |
| 110      | 36 $\frac{1}{2}$ | 40 $\frac{1}{2}$ | 40 $\frac{1}{2}$ | 40 $\frac{1}{2}$ | 53 $\frac{1}{2}$ | 40 $\frac{1}{2}$ | 50 $\frac{1}{2}$ | 60               | 29               | 30 $\frac{1}{2}$ | 45 $\frac{1}{2}$ | 36 $\frac{1}{2}$ | 44               | 35 $\frac{1}{2}$ | 9 $\frac{1}{2}$  | 22 | 94               | 81  | 110 $\frac{1}{2}$ | 64 $\frac{1}{2}$  | 66                     | 2 $\frac{3}{8}$ | 2            |
| 120      | 42 $\frac{1}{2}$ | 46               | 46               | 44               | 58               | 41 $\frac{1}{2}$ | 55               | 65               | 33               | 34 $\frac{1}{2}$ | 50               | 42 $\frac{1}{2}$ | 51               | 39 $\frac{1}{2}$ | 10 $\frac{1}{2}$ | 24 | 102              | 92  | 120               | 72 $\frac{1}{2}$  | 72                     | 2 $\frac{3}{8}$ | 2            |
| 140      | 48 $\frac{1}{2}$ | 49               | 49               | 50               | 68               | 45 $\frac{1}{2}$ | 64               | 77               | 36 $\frac{1}{2}$ | 38 $\frac{1}{2}$ | 57 $\frac{1}{2}$ | 48 $\frac{1}{2}$ | 57               | 44 $\frac{1}{2}$ | 12 $\frac{1}{2}$ | 28 | 118              | 98  | 141               | 81                | 84                     | 3 $\frac{1}{8}$ | 2            |
| 160      | 54 $\frac{1}{2}$ | 57               | 63               | 57               | 77               | 49 $\frac{1}{2}$ | 72               | 87               | 38               | 39 $\frac{1}{2}$ | 65 $\frac{1}{2}$ | 48 $\frac{1}{2}$ | 58 $\frac{1}{2}$ | 46               | 12 $\frac{1}{2}$ | 32 | 131              | 120 | 159               | 84                | 96                     | 3 $\frac{1}{8}$ | 2            |
| 180      | 61               | 63               | 73               | 65               | 87               | 57 $\frac{1}{2}$ | 80               | 98               | 41               | 42 $\frac{1}{2}$ | 71 $\frac{1}{2}$ | 55               | 64 $\frac{1}{2}$ | 49               | 12 $\frac{1}{2}$ | 36 | 152              | 136 | 178               | 90                | 108                    | 3 $\frac{1}{8}$ | 2            |
| 200      | 73               | 66               | 84               | 72               | 96               | 68 $\frac{1}{2}$ | 88               | 108              | 44 $\frac{1}{2}$ | 46               | 82 $\frac{1}{2}$ | 61               | 70 $\frac{1}{2}$ | 52 $\frac{1}{2}$ | 12 $\frac{1}{2}$ | 42 | 168              | 150 | 196               | 96 $\frac{1}{2}$  | 120                    | 4 $\frac{1}{2}$ | 2            |
| 220      | 79               | 75               | 96               | 81               | 107              | 73               | 98               | 118              | 48               | 49 $\frac{1}{2}$ | 90 $\frac{1}{2}$ | 67               | 76 $\frac{1}{2}$ | 57               | 11 $\frac{1}{2}$ | 48 | 188              | 171 | 216               | 105               | 132                    | 5               | 2            |
| 240      | 85               | 84               | 102              | 90               | 118              | 81               | 108              | 128              | 51 $\frac{1}{2}$ | 53 $\frac{1}{2}$ | 98 $\frac{1}{2}$ | 73               | 82 $\frac{1}{2}$ | 60 $\frac{1}{2}$ | 14 $\frac{1}{2}$ | 48 | 208              | 186 | 236               | 111 $\frac{1}{2}$ | 144                    | 5               | 2            |

NOTE: —Sizes 50, 60, and 70 have circular outlets. Sizes 80 to 240 inclusive have rectangular outlets.

Double Inlet

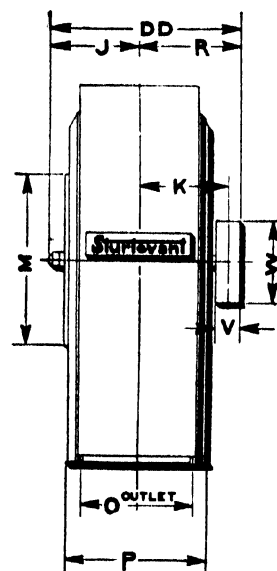
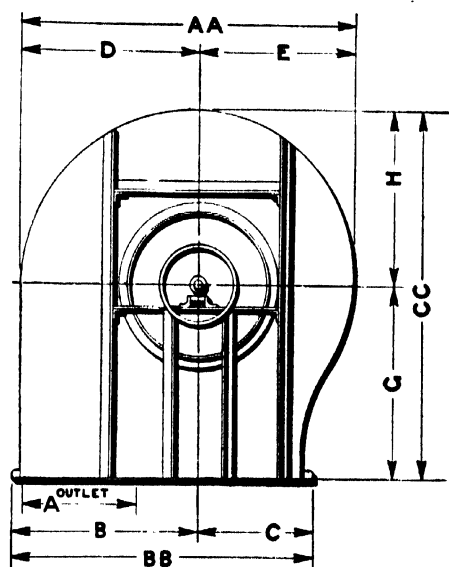
## Steel Plate Fan—Design 1

Single Width

Full Housing

Down Blast Discharge

Overhung Pulley



| Fan Size | A  | B   | C   | D   | E   | G   | H   | J   | K   | M   | O  | P   | R   | V   | W  | AA  | BB  | CC  | DD   | Extreme Wheel Diameter | Shaft Diameter | Anchor Bolts |
|----------|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|-----|-----|-----|----|-----|-----|-----|------|------------------------|----------------|--------------|
| 50       | 18 | 29  | 19½ | 27  | 23  | 28½ | 25  | 16½ | 17½ | 20½ |    | 20  | 19½ | 5½  | 12 | 50  | 48½ | 53½ | 36½  | 30                     | 1 11/16        | 2            |
| 60       | 22 | 35½ | 23½ | 33  | 27  | 33½ | 30  | 18½ | 18½ | 26½ |    | 22½ | 21½ | 6½  | 14 | 60  | 59½ | 63½ | 39½  | 36                     | 1 11/16        | 2            |
| 70       | 25 | 41½ | 26½ | 37½ | 30½ | 39½ | 34  | 20½ | 21½ | 29½ |    | 27  | 25  | 7½  | 16 | 68½ | 68  | 73½ | 45½  | 42                     | 2 1/4          | 3            |
| 80       | 28 | 47½ | 31  | 43  | 35  | 36½ | 39  | 22½ | 23½ | 33½ | 24 | 30  | 27½ | 7½  | 18 | 78  | 78½ | 75½ | 50½  | 48                     | 2 1/4          | 3            |
| 90       | 30 | 53½ | 31½ | 49  | 39  | 45  | 44  | 24½ | 25½ | 36½ | 28 | 34  | 30½ | 8½  | 20 | 88  | 88  | 89  | 54½  | 54                     | 2 1/4          | 3            |
| 100      | 32 | 59½ | 35½ | 55  | 43  | 50  | 49  | 26½ | 27½ | 40½ | 32 | 38  | 32½ | 8½  | 20 | 98  | 95  | 99  | 58½  | 60                     | 2 1/4          | 3            |
| 110      | 36 | 61½ | 40½ | 60  | 47  | 50½ | 53½ | 29  | 30½ | 45½ | 36 | 41  | 35½ | 9½  | 22 | 107 | 105 | 104 | 64½  | 66                     | 2 1/4          | 3            |
| 120      | 42 | 70  | 46  | 65  | 51  | 55  | 58  | 33  | 34½ | 50  | 42 | 51  | 39½ | 10½ | 24 | 116 | 116 | 113 | 72½  | 72                     | 2 1/4          | 3            |
| 110      | 48 | 82  | 49  | 77  | 59  | 64  | 68  | 36½ | 38½ | 57½ | 48 | 57  | 44½ | 12½ | 28 | 136 | 131 | 132 | 81   | 84                     | 3 1/4          | 3            |
| 160      | 54 | 93  | 59  | 87  | 67  | 72  | 77  | 38  | 39½ | 65½ | 48 | 58½ | 46  | 12½ | 32 | 154 | 152 | 149 | 84   | 96                     | 3 1/4          | 3            |
| 180      | 60 | 104 | 68  | 98  | 76  | 80  | 87  | 41  | 42½ | 74½ | 54 | 64½ | 49  | 12½ | 36 | 174 | 172 | 167 | 90   | 108                    | 3 1/4          | 3            |
| 200      | 72 | 113 | 72  | 108 | 84  | 88  | 96  | 44½ | 46  | 82½ | 60 | 70½ | 52½ | 12½ | 42 | 192 | 185 | 184 | 96½  | 120                    | 4½             | 3            |
| 220      | 78 | 124 | 76  | 120 | 94  | 98  | 107 | 48  | 49½ | 90½ | 66 | 76½ | 57  | 14½ | 48 | 214 | 200 | 205 | 105  | 132                    | 5              | 3            |
| 210      | 84 | 138 | 86  | 132 | 104 | 108 | 118 | 51½ | 53½ | 98½ | 72 | 82½ | 60½ | 14½ | 48 | 236 | 224 | 226 | 118½ | 144                    | 5              | 3            |



Single Inlet

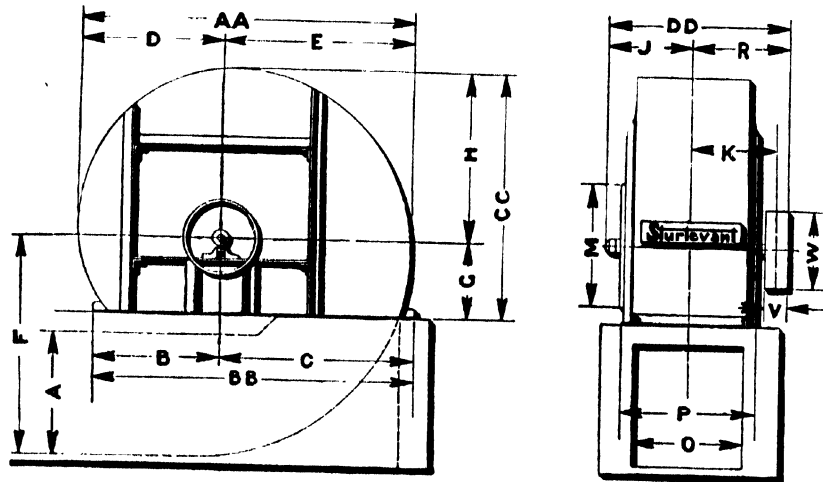
## Steel Plate Fan—Design 1

Single Width

 $\frac{3}{4}$  Housing

Bottom Horizontal Discharge

Overhung Pulley



| Fan Size | A   | B                | C                 | D                | E                | F                | G                | H   | J                | K                | M                 | O   | P   | R                | V                | W  | AA  | BB                | CC               | DD                | Extreme Wheel Diameter | Shaft Dia.       | Anchor Bolts |
|----------|-----|------------------|-------------------|------------------|------------------|------------------|------------------|-----|------------------|------------------|-------------------|-----|-----|------------------|------------------|----|-----|-------------------|------------------|-------------------|------------------------|------------------|--------------|
| 80       | 28  | 30               | 40                | 31               | 39               | 47               | 15               | 35  | 22 $\frac{1}{2}$ | 23 $\frac{1}{2}$ | 31                | 24  | 29  | 27 $\frac{1}{2}$ | 7 $\frac{1}{2}$  | 18 | 70  | 70                | 50               | 50 $\frac{1}{2}$  | 48                     | 2 $\frac{1}{16}$ | 5            |
| 90       | 30  | 31               | 45                | 34               | 41               | 52               | 18               | 39  | 24 $\frac{1}{2}$ | 25 $\frac{1}{2}$ | 38 $\frac{1}{2}$  | 28  | 33  | 30               | 8 $\frac{1}{2}$  | 20 | 78  | 76                | 57               | 51 $\frac{1}{2}$  | 54                     | 2 $\frac{1}{16}$ | 5            |
| 100      | 32  | 32 $\frac{1}{2}$ | 49 $\frac{1}{2}$  | 37               | 49               | 56               | 20               | 43  | 26 $\frac{1}{2}$ | 27 $\frac{1}{2}$ | 42 $\frac{1}{2}$  | 32  | 37  | 32               | 8 $\frac{1}{2}$  | 20 | 86  | 82                | 63               | 58 $\frac{1}{2}$  | 60                     | 2 $\frac{1}{16}$ | 5            |
| 110      | 36  | 37 $\frac{1}{2}$ | 55 $\frac{1}{2}$  | 40 $\frac{1}{2}$ | 53 $\frac{1}{2}$ | 60               | 20               | 47  | 29               | 30 $\frac{1}{2}$ | 47                | 36  | 43  | 35               | 9 $\frac{1}{2}$  | 22 | 94  | 93                | 67               | 64                | 66                     | 2 $\frac{1}{16}$ | 5            |
| 120      | 42  | 40 $\frac{1}{2}$ | 60 $\frac{1}{2}$  | 44               | 58               | 55               | 24               | 51  | 33               | 34 $\frac{1}{2}$ | 52 $\frac{1}{2}$  | 42  | 51  | 39 $\frac{1}{2}$ | 10 $\frac{1}{2}$ | 24 | 102 | 100 $\frac{1}{2}$ | 75               | 72 $\frac{1}{2}$  | 72                     | 2 $\frac{1}{16}$ | 5            |
| 110      | 48  | 41 $\frac{1}{2}$ | 70 $\frac{1}{2}$  | 50               | 68               | 78 $\frac{1}{2}$ | 26 $\frac{1}{2}$ | 59  | 36 $\frac{1}{2}$ | 38 $\frac{1}{2}$ | 60 $\frac{1}{2}$  | 48  | 57  | 44 $\frac{1}{2}$ | 12 $\frac{1}{2}$ | 28 | 118 | 115               | 85 $\frac{1}{2}$ | 81                | 84                     | 3 $\frac{1}{16}$ | 5            |
| 160      | 51  | 48 $\frac{1}{2}$ | 78 $\frac{1}{2}$  | 57               | 77               | 90 $\frac{1}{2}$ | 32 $\frac{1}{2}$ | 67  | 38               | 39 $\frac{1}{2}$ | 68 $\frac{1}{2}$  | 48  | 57  | 46               | 12 $\frac{1}{2}$ | 32 | 134 | 127               | 99 $\frac{1}{2}$ | 84                | 96                     | 3 $\frac{1}{16}$ | 5            |
| 180      | 60  | 57               | 88 $\frac{1}{2}$  | 65               | 87               | 100              | 36               | 76  | 41               | 42 $\frac{1}{2}$ | 77                | 54  | 64  | 49               | 12 $\frac{1}{2}$ | 36 | 152 | 145 $\frac{1}{2}$ | 112              | 90                | 108                    | 3 $\frac{1}{16}$ | 5            |
| 200      | 72  | 62               | 96 $\frac{1}{2}$  | 72               | 96               | 116              | 40               | 84  | 44 $\frac{1}{2}$ | 46               | 85 $\frac{1}{2}$  | 60  | 70  | 52 $\frac{1}{2}$ | 12 $\frac{1}{2}$ | 42 | 168 | 158 $\frac{1}{2}$ | 124              | 96 $\frac{1}{2}$  | 120                    | 1 $\frac{1}{2}$  | 5            |
| 220      | 78  | 70 $\frac{1}{2}$ | 108 $\frac{1}{2}$ | 81               | 107              | 127              | 44               | 94  | 47 $\frac{1}{2}$ | 49 $\frac{1}{2}$ | 94                | 66  | 78  | 57               | 11 $\frac{1}{2}$ | 48 | 188 | 179 $\frac{1}{2}$ | 138              | 104 $\frac{1}{2}$ | 132                    | 5                | 5            |
| 210      | 81  | 80               | 119               | 90               | 118              | 134              | 46               | 104 | 51 $\frac{1}{2}$ | 53 $\frac{1}{2}$ | 102 $\frac{1}{2}$ | 72  | 84  | 60 $\frac{1}{2}$ | 14 $\frac{1}{2}$ | 48 | 208 | 199               | 150              | 111 $\frac{1}{2}$ | 144                    | 5                | 5            |
| 260      | 90  | 84               | 128               | 97               | 127              | 142              | 50               | 112 | 54 $\frac{1}{2}$ | 56 $\frac{1}{2}$ | 111 $\frac{1}{2}$ | 78  | 90  | 63 $\frac{1}{2}$ | 14 $\frac{1}{2}$ | 54 | 224 | 212               | 162              | 117 $\frac{1}{2}$ | 156                    | 5                | 5            |
| 280      | 96  | 90               | 136               | 104              | 136              | 155              | 54               | 120 | 65               | 66               | 120               | 81  | 96  | 73 $\frac{1}{2}$ | 14 $\frac{1}{2}$ | 54 | 240 | 220               | 171              | 138 $\frac{1}{2}$ | 168                    | 6                | 5            |
| 300      | 102 | 99               | 146               | 112              | 146              | 165              | 58               | 129 | 68               | 70               | 128 $\frac{1}{2}$ | 90  | 102 | 78 $\frac{1}{2}$ | 16 $\frac{1}{2}$ | 60 | 258 | 245               | 187              | 146 $\frac{1}{2}$ | 180                    | 7                | 5            |
| 320      | 108 | 126              | 152               | 120              | 156              | 174              | 62               | 138 | 78               |                  | 136 $\frac{1}{2}$ | 96  | 108 |                  | 16 $\frac{1}{2}$ | 72 | 276 | 278               | 200              |                   | 192                    | 7                | 5            |
| 340      | 114 | 120              | 168               | 128              | 166              | 185              | 66               | 147 | 84               |                  | 145               | 102 | 114 |                  |                  |    | 294 | 288               | 213              |                   | 204                    | 7                | 5            |
| 360      | 120 | 128              | 184               | 136              | 176              | 196              | 70               | 156 | 84               |                  | 153 $\frac{1}{2}$ | 108 | 120 |                  |                  |    | 312 | 312               | 226              |                   | 216                    | 8                | 5            |
| 400      | 132 | 156              | 216               | 152              | 196              | 218              | 78               | 174 | 90               |                  | 170 $\frac{1}{2}$ | 120 | 132 |                  |                  |    | 348 | 372               | 252              |                   | 240                    | 8                | 5            |

Single Inlet

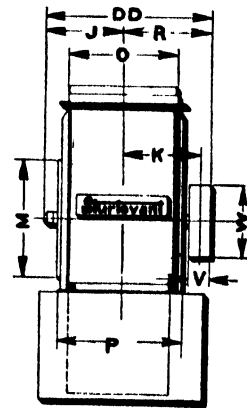
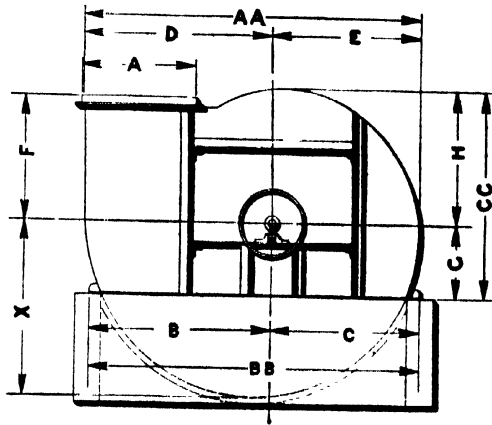
## Steel Plate Fan — Design 1

Single Width

 $\frac{3}{4}$  Housing

Up Blast Discharge

Overhung Pulley



| Fan Size | A                | B                | C                 | D   | E   | F                | G                | H                | J                | K                | M                 | O                 | P                 | R                | V                | W   | X   | AA  | BB                | CC               | DD                | Extreme Wheel Diameter | Shaft Diameter  | Anchor Bolts |
|----------|------------------|------------------|-------------------|-----|-----|------------------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|------------------|------------------|-----|-----|-----|-------------------|------------------|-------------------|------------------------|-----------------|--------------|
| 80       | 27 $\frac{1}{2}$ | 45               | 38 $\frac{1}{2}$  | 13  | 35  | 30 $\frac{1}{2}$ | 15               | 31               | 22 $\frac{1}{2}$ | 23 $\frac{1}{2}$ | 34                | 24 $\frac{1}{2}$  | 33 $\frac{1}{2}$  | 27 $\frac{1}{2}$ | 7 $\frac{1}{2}$  | 18  | 39  | 78  | 83 $\frac{1}{2}$  | 46               | 50 $\frac{1}{2}$  | 48                     | 2 $\frac{1}{2}$ | 3            |
| 90       | 30 $\frac{1}{2}$ | 50 $\frac{1}{2}$ | 41 $\frac{1}{2}$  | 19  | 39  | 34 $\frac{1}{2}$ | 18               | 34               | 24 $\frac{1}{2}$ | 25 $\frac{1}{2}$ | 38 $\frac{1}{2}$  | 28 $\frac{1}{2}$  | 37 $\frac{1}{2}$  | 30 $\frac{1}{2}$ | 20               | 44  | 8   | 88  | 92                | 52               | 54 $\frac{1}{2}$  | 54                     | 2 $\frac{1}{2}$ | 3            |
| 100      | 32 $\frac{1}{2}$ | 55 $\frac{1}{2}$ | 45 $\frac{1}{2}$  | 25  | 43  | 36 $\frac{1}{2}$ | 20               | 37               | 26 $\frac{1}{2}$ | 27 $\frac{1}{2}$ | 42 $\frac{1}{2}$  | 32 $\frac{1}{2}$  | 41 $\frac{1}{2}$  | 32 $\frac{1}{2}$ | 8 $\frac{1}{2}$  | 20  | 49  | 98  | 101               | 57               | 58 $\frac{1}{2}$  | 60                     | 2 $\frac{1}{2}$ | 3            |
| 110      | 36 $\frac{1}{2}$ | 60 $\frac{1}{2}$ | 49 $\frac{1}{2}$  | 30  | 47  | 40 $\frac{1}{2}$ | 20               | 40 $\frac{1}{2}$ | 29               | 30 $\frac{1}{2}$ | 47                | 36 $\frac{1}{2}$  | 45 $\frac{1}{2}$  | 35 $\frac{1}{2}$ | 9 $\frac{1}{2}$  | 22  | 53  | 107 | 110 $\frac{1}{2}$ | 60 $\frac{1}{2}$ | 61 $\frac{1}{2}$  | 66                     | 2 $\frac{1}{2}$ | 3            |
| 120      | 42 $\frac{1}{2}$ | 61 $\frac{1}{2}$ | 52 $\frac{1}{2}$  | 35  | 51  | 41 $\frac{1}{2}$ | 24               | 44               | 33               | 34 $\frac{1}{2}$ | 52 $\frac{1}{2}$  | 42 $\frac{1}{2}$  | 51 $\frac{1}{2}$  | 39 $\frac{1}{2}$ | 10 $\frac{1}{2}$ | 24  | 58  | 116 | 117 $\frac{1}{2}$ | 68               | 72 $\frac{1}{2}$  | 72                     | 2 $\frac{1}{2}$ | 3            |
| 140      | 48 $\frac{1}{2}$ | 78               | 62 $\frac{1}{2}$  | 44  | 59  | 45 $\frac{1}{2}$ | 26 $\frac{1}{2}$ | 50               | 36 $\frac{1}{2}$ | 38 $\frac{1}{2}$ | 60 $\frac{1}{2}$  | 48 $\frac{1}{2}$  | 60 $\frac{1}{2}$  | 44 $\frac{1}{2}$ | 12 $\frac{1}{2}$ | 28  | 68  | 136 | 140 $\frac{1}{2}$ | 76 $\frac{1}{2}$ | 81 $\frac{1}{2}$  | 84                     | 3 $\frac{1}{2}$ | 3            |
| 160      | 54 $\frac{1}{2}$ | 86               | 69 $\frac{1}{2}$  | 51  | 67  | 49 $\frac{1}{2}$ | 32 $\frac{1}{2}$ | 57               | 38 $\frac{1}{2}$ | 39 $\frac{1}{2}$ | 68 $\frac{1}{2}$  | 48 $\frac{1}{2}$  | 60 $\frac{1}{2}$  | 46 $\frac{1}{2}$ | 12 $\frac{1}{2}$ | 32  | 77  | 154 | 155 $\frac{1}{2}$ | 89 $\frac{1}{2}$ | 84 $\frac{1}{2}$  | 96                     | 3 $\frac{1}{2}$ | 3            |
| 180      | 61 $\frac{1}{2}$ | 96               | 77 $\frac{1}{2}$  | 58  | 76  | 57 $\frac{1}{2}$ | 36 $\frac{1}{2}$ | 65               | 41 $\frac{1}{2}$ | 42 $\frac{1}{2}$ | 77                | 55                | 66 $\frac{1}{2}$  | 49 $\frac{1}{2}$ | 12 $\frac{1}{2}$ | 36  | 87  | 174 | 173 $\frac{1}{2}$ | 101              | 90 $\frac{1}{2}$  | 108                    | 3 $\frac{1}{2}$ | 3            |
| 200      | 73               | 105              | 85                | 67  | 84  | 68 $\frac{1}{2}$ | 40               | 72               | 44 $\frac{1}{2}$ | 46               | 85 $\frac{1}{2}$  | 61                | 72 $\frac{1}{2}$  | 52 $\frac{1}{2}$ | 12 $\frac{1}{2}$ | 42  | 96  | 192 | 190               | 112              | 96 $\frac{1}{2}$  | 120                    | 4 $\frac{1}{2}$ | 3            |
| 220      | 79               | 116              | 91 $\frac{1}{2}$  | 74  | 91  | 73               | 44               | 81               | 48               | 49 $\frac{1}{2}$ | 94                | 67                | 78 $\frac{1}{2}$  | 57               | 14 $\frac{1}{2}$ | 48  | 107 | 214 | 210 $\frac{1}{2}$ | 125              | 105               | 122                    | 5               | 3            |
| 240      | 85               | 128              | 101 $\frac{1}{2}$ | 81  | 101 | 81               | 46               | 90               | 51 $\frac{1}{2}$ | 53 $\frac{1}{2}$ | 102 $\frac{1}{2}$ | 73                | 84 $\frac{1}{2}$  | 60 $\frac{1}{2}$ | 14 $\frac{1}{2}$ | 48  | 118 | 236 | 232 $\frac{1}{2}$ | 136              | 111 $\frac{1}{2}$ | 144                    | 5               | 3            |
| 260      | 91               | 137              | 111 $\frac{1}{2}$ | 88  | 112 | 86               | 50               | 97               | 54 $\frac{1}{2}$ | 56 $\frac{1}{2}$ | 111 $\frac{1}{2}$ | 79                | 90 $\frac{1}{2}$  | 63 $\frac{1}{2}$ | 14 $\frac{1}{2}$ | 54  | 127 | 254 | 248 $\frac{1}{2}$ | 147              | 118               | 156                    | 5               | 3            |
| 280      | 97               | 146              | 119               | 95  | 120 | 92               | 54               | 104              | 68 $\frac{1}{2}$ | 72 $\frac{1}{2}$ | 120               | 85                | 96 $\frac{1}{2}$  | 80               | 14 $\frac{1}{2}$ | 54  | 136 | 272 | 265               | 158              | 148 $\frac{1}{2}$ | 168                    | 6               | 3            |
| 300      | 103              | 156              | 127 $\frac{1}{2}$ | 103 | 129 | 96               | 58               | 112              | 77 $\frac{1}{2}$ | 82 $\frac{1}{2}$ | 128 $\frac{1}{2}$ | 91                | 102 $\frac{1}{2}$ | 91               | 16 $\frac{1}{2}$ | 60  | 146 | 292 | 283 $\frac{1}{2}$ | 170              | 168 $\frac{1}{2}$ | 180                    | 7               | 3            |
| 320      | 109              | 166              | 133 $\frac{1}{2}$ | 110 | 138 | 110              | 62               | 120              | 80 $\frac{1}{2}$ | 85 $\frac{1}{2}$ | 136 $\frac{1}{2}$ | 97                | 108 $\frac{1}{2}$ | 94               | 16 $\frac{1}{2}$ | 72  | 156 | 312 | 299 $\frac{1}{2}$ | 182              | 174 $\frac{1}{2}$ | 192                    | 8               | 1            |
| 340      | 115              | 176              | 141 $\frac{1}{2}$ | 118 | 147 | 114              | 66               | 128              | 83 $\frac{1}{2}$ |                  | 145 $\frac{1}{2}$ | 103 $\frac{1}{2}$ | 114               |                  |                  | 166 |     | 332 | 320               | 194              |                   | 204                    | 8               | 1            |
| 360      | 121              | 186              | 152 $\frac{1}{2}$ | 126 | 156 | 120              | 70               | 136              | 86 $\frac{1}{2}$ |                  | 153 $\frac{1}{2}$ | 109 $\frac{1}{2}$ | 120               |                  |                  | 176 |     | 352 | 338 $\frac{1}{2}$ | 206              |                   | 216                    | 8               | 1            |
| 400      | 133              | 206              | 169               | 138 | 174 | 132              | 78               | 152              | 92 $\frac{1}{2}$ |                  | 170 $\frac{1}{2}$ | 121 $\frac{1}{2}$ | 132               |                  |                  | 196 |     | 392 | 375               | 230              |                   | 240                    | 8               | 1            |

Single Inlet

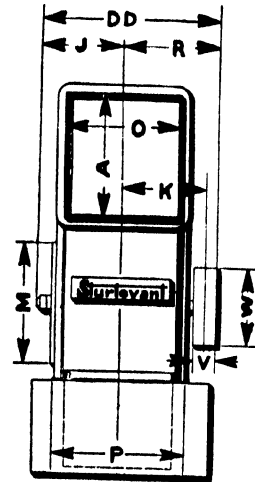
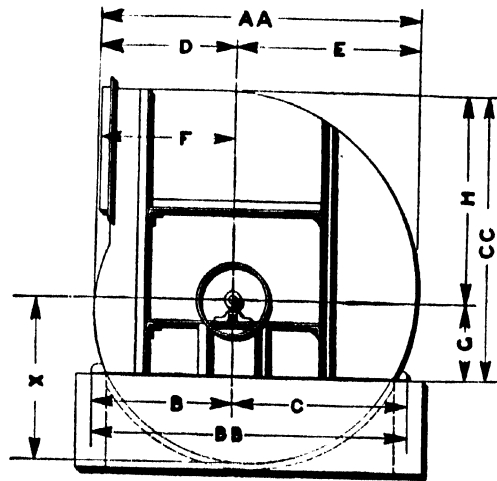
## Steel Plate Fan—Design 1

Single Width

 $\frac{3}{4}$  Housing

Top Horizontal Discharge

Overhung Pulley



| Fan Size | A   | B   | C   | D   | E   | F   | G  | H   | J  | K  | M   | O   | P   | R   | V  | W  | X   | AA  | BB  | CC  | DD  | Extreme Wheel Diameter | Shaft Dia | Anchor Bolts |
|----------|-----|-----|-----|-----|-----|-----|----|-----|----|----|-----|-----|-----|-----|----|----|-----|-----|-----|-----|-----|------------------------|-----------|--------------|
| 80       | 28  | 31  | 40  | 31  | 39  | 30  | 15 | 43  | 22 | 23 | 34  | 24  | 33  | 27  | 7  | 18 | 35  | 70  | 74  | 58  | 50  | 48                     | 2 1/2     | 3            |
| 90       | 30  | 36  | 44  | 34  | 44  | 34  | 18 | 49  | 24 | 25 | 38  | 28  | 37  | 30  | 8  | 20 | 39  | 78  | 81  | 67  | 54  | 51                     | 2 7/8     | 3            |
| 100      | 32  | 39  | 49  | 37  | 49  | 36  | 20 | 55  | 26 | 27 | 42  | 32  | 41  | 32  | 8  | 20 | 43  | 86  | 88  | 75  | 58  | 60                     | 2 7/8     | 4            |
| 110      | 36  | 42  | 53  | 40  | 53  | 40  | 20 | 60  | 29 | 30 | 47  | 36  | 45  | 35  | 9  | 22 | 47  | 94  | 96  | 80  | 64  | 66                     | 2 1 1/2   | 4            |
| 120      | 42  | 45  | 56  | 44  | 58  | 41  | 24 | 65  | 33 | 34 | 52  | 42  | 51  | 39  | 10 | 24 | 51  | 102 | 102 | 89  | 72  | 72                     | 2 1 1/2   | 4            |
| 140      | 48  | 53  | 68  | 50  | 68  | 45  | 26 | 77  | 36 | 38 | 60  | 48  | 60  | 44  | 12 | 28 | 59  | 118 | 121 | 103 | 81  | 84                     | 3 1/2     | 4            |
| 160      | 54  | 58  | 75  | 57  | 77  | 49  | 32 | 87  | 38 | 39 | 68  | 48  | 60  | 46  | 12 | 32 | 67  | 134 | 133 | 119 | 84  | 96                     | 3 1/2     | 4            |
| 180      | 61  | 66  | 84  | 65  | 87  | 57  | 36 | 98  | 41 | 42 | 77  | 55  | 66  | 49  | 12 | 36 | 76  | 152 | 150 | 134 | 90  | 108                    | 3 1/2     | 4            |
| 200      | 73  | 72  | 91  | 72  | 96  | 68  | 40 | 108 | 44 | 46 | 85  | 61  | 72  | 52  | 12 | 42 | 84  | 168 | 163 | 148 | 96  | 120                    | 4         | 4            |
| 220      | 79  | 80  | 101 | 81  | 107 | 73  | 44 | 120 | 48 | 49 | 94  | 67  | 78  | 57  | 14 | 48 | 91  | 188 | 182 | 161 | 105 | 132                    | 5         | 4            |
| 240      | 85  | 89  | 112 | 90  | 118 | 81  | 46 | 132 | 51 | 53 | 102 | 73  | 84  | 60  | 14 | 48 | 104 | 208 | 202 | 178 | 111 | 144                    | 5         | 4            |
| 260      | 91  | 95  | 120 | 97  | 127 | 86  | 50 | 142 | 54 | 56 | 111 | 79  | 90  | 63  | 14 | 54 | 112 | 224 | 216 | 192 | 118 | 156                    | 5         | 4            |
| 280      | 97  | 102 | 128 | 104 | 136 | 92  | 54 | 152 | 68 | 72 | 120 | 85  | 96  | 80  | 14 | 54 | 120 | 240 | 230 | 206 | 148 | 168                    | 6         | 4            |
| 300      | 103 | 109 | 137 | 112 | 146 | 96  | 58 | 163 | 77 | 82 | 128 | 91  | 102 | 91  | 16 | 60 | 129 | 258 | 246 | 221 | 168 | 180                    | 7         | 4            |
| 320      | 109 | 116 | 146 | 120 | 156 | 110 | 62 | 174 | 80 | 85 | 136 | 97  | 108 | 94  | 16 | 72 | 138 | 276 | 262 | 236 | 171 | 192                    | 8         | 1            |
| 340      | 115 | 122 | 154 | 128 | 166 | 114 | 66 | 185 | 83 | 88 | 145 | 103 | 114 | 109 | 16 | 72 | 147 | 294 | 277 | 251 | 180 | 204                    | 8         | 1            |
| 360      | 121 | 131 | 163 | 136 | 176 | 120 | 70 | 196 | 86 | 91 | 153 | 109 | 120 | 120 | 16 | 72 | 156 | 312 | 294 | 266 | 180 | 216                    | 8         | 1            |
| 400      | 133 | 145 | 181 | 152 | 196 | 132 | 78 | 218 | 92 | 97 | 170 | 121 | 132 | 132 | 16 | 72 | 174 | 348 | 326 | 296 | 180 | 240                    | 8         | 1            |

Double Inlet

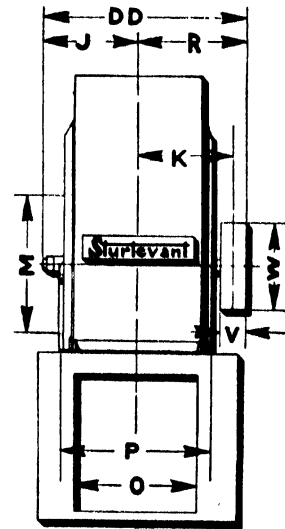
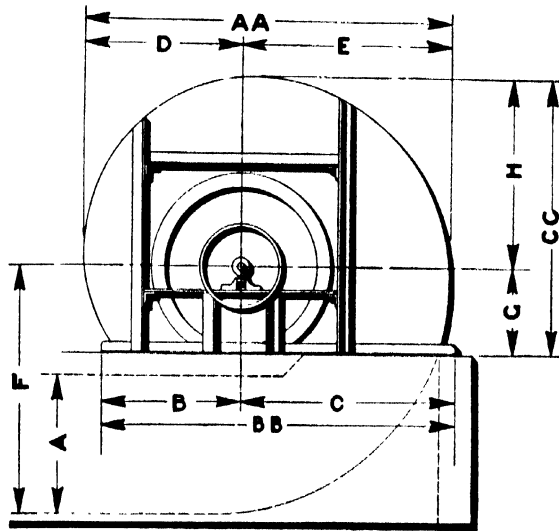
## Steel Plate Fan—Design 1

Single Width

¾ Housing

Bottom Horizontal Discharge

Overhung Pulley



| Fan Size | A   | B    | C    | D   | E   | F   | G   | H   | J   | K   | M    | O   | P   | R   | V   | W   | AA   | BB   | CC  | DD   | Extreme Wheel Diameter | Shaft Diameter | Anchor Bolts |
|----------|-----|------|------|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|------|------|-----|------|------------------------|----------------|--------------|
| 80       | 28  | 32   | 42½  | 31  | 39  | 47  | 15  | 35  | 22½ | 23½ | 31½  | 24  | 33  | 27½ | 7½  | 18  | 70   | 74½  | 50  | 50½  | 48                     | 2 1/8          | 2            |
| 90       | 30  | 33½  | 46½  | 34  | 44  | 52  | 18  | 39  | 24½ | 25½ | 36½  | 28  | 37  | 30½ | 8½  | 20  | 78   | 80   | 57  | 54½  | 54                     | 2 1/8          | 2            |
| 100      | 32  | 35   | 51½  | 37  | 49  | 56  | 20  | 43  | 26½ | 27½ | 40½  | 32  | 41  | 32½ | 9½  | 22  | 86   | 86½  | 63  | 58½  | 60                     | 2 1/8          | 2            |
| 110      | 36  | 39   | 56½  | 40½ | 53½ | 60  | 20  | 47  | 29  | 30½ | 45½  | 36  | 45  | 35½ | 9½  | 22  | 94   | 95½  | 67  | 64½  | 66                     | 2 1/8          | 2            |
| 120      | 42  | 40½  | 60   | 41  | 58  | 70  | 24  | 51  | 33  | 34½ | 50   | 42  | 51  | 39½ | 10½ | 24  | 102  | 100½ | 75  | 72½  | 72                     | 2 1/8          | 2            |
| 140      | 48  | 47½  | 71½  | 50  | 68  | 78½ | 26½ | 59  | 36½ | 38½ | 57½  | 48  | 60  | 44½ | 12½ | 28  | 118  | 119½ | 85½ | 81   | 84                     | 3 1/8          | 2            |
| 160      | 54  | 51   | 79½  | 57  | 77  | 90½ | 32½ | 67  | 38  | 39½ | 65½  | 48  | 60  | 46  | 12½ | 32  | 134  | 130½ | 99½ | 84   | 96                     | 3 1/8          | 2            |
| 180      | 60  | 57½  | 89½  | 65  | 87  | 100 | 36  | 76  | 41  | 42½ | 74½  | 54  | 66  | 49  | 12½ | 36  | 152  | 147  | 112 | 90   | 108                    | 3 1/8          | 2            |
| 200      | 72  | 63   | 97½  | 72  | 96  | 116 | 40  | 84  | 41½ | 46  | 82½  | 60  | 72  | 52½ | 12½ | 42  | 168  | 160½ | 124 | 96½  | 120                    | 4              | 2            |
| 220      | 78  | 70½  | 108  | 81  | 107 | 126 | 44  | 94  | 48  | 49½ | 90½  | 66  | 78  | 57  | 14½ | 48  | 188  | 178½ | 138 | 105  | 132                    | 5              | 2            |
| 240      | 84  | 80   | 119  | 90  | 118 | 134 | 46  | 104 | 51½ | 53½ | 98½  | 72  | 84  | 60½ | 14½ | 48  | 208  | 199  | 150 | 111½ | 144                    | 5              | 2            |
| 260      | 90  | 85½  | 127½ | 97  | 127 | 144 | 50  | 112 | 54½ | 56½ | 107½ | 78  | 90  | 63½ | 14½ | 54  | 224  | 212½ | 162 | 118  | 156                    | 5              | 2            |
| 280      | 96  | 90½  | 136  | 104 | 136 | 156 | 54  | 120 | 68½ | 72½ | 116  | 84  | 96  | 80  | 14½ | 54  | 240  | 226½ | 174 | 148½ | 168                    | 6              | 2            |
| 300      | 102 | 97   | 145½ | 112 | 146 | 166 | 58  | 129 | 77½ | 82½ | 124  | 90  | 102 | 91  | 16½ | 60  | 258  | 242½ | 187 | 168½ | 180                    | 7              | 1            |
| 320      | 108 | 103½ | 154½ | 120 | 156 | 176 | 62  | 138 | 80½ | 85½ | 132  | 96  | 108 | 94  | 16½ | 72  | 276  | 258  | 200 | 174½ | 192                    | 8              | 1            |
| 340      | 111 | 110½ | 164  | 128 | 166 | 186 | 66  | 147 | 83½ |     | 140½ | 102 | 114 |     |     | 294 | 274½ | 213  |     | 204  | 8                      | 1              |              |
| 360      | 120 | 116½ | 173½ | 136 | 176 | 196 | 70  | 156 | 86½ |     | 148½ | 108 | 120 |     |     | 312 | 290  | 226  |     | 216  | 8                      | 1              |              |
| 400      | 132 | 129½ | 193  | 152 | 196 | 216 | 78  | 174 | 92½ |     | 164½ | 120 | 132 |     |     | 348 | 322½ | 252  |     | 240  | 8                      | 1              |              |

Double Inlet

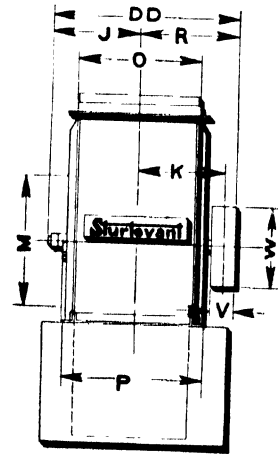
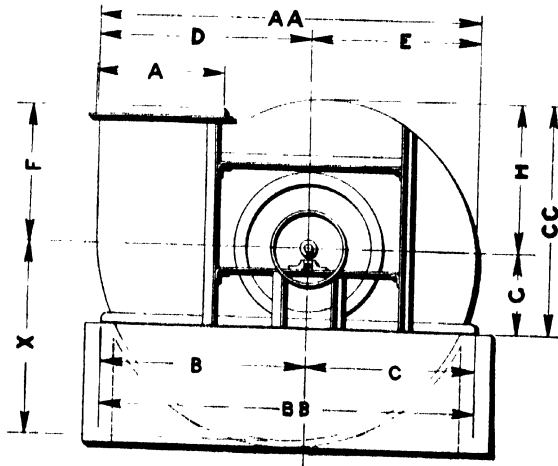
## Steel Plate Fan—Design 1

Single Width

¾ Housing

Up Blast Discharge

Overhung Pulley



| Fan Size | A    | B   | C    | D   | E   | F   | G   | H   | J   | K   | M    | O    | P   | R   | V   | W  | X   | AA  | BB   | CC  | DD   | Extreme Wheel Diameter | Shaft Dia. | Anchor Bolts |
|----------|------|-----|------|-----|-----|-----|-----|-----|-----|-----|------|------|-----|-----|-----|----|-----|-----|------|-----|------|------------------------|------------|--------------|
| 80       | 28½  | 45  | 38½  | 43  | 35  | 30½ | 15  | 31  | 22½ | 23½ | 31½  | 24½  | 33  | 27½ | 7½  | 18 | 39  | 78  | 83½  | 46  | 50½  | 48                     | 2 1/16     | 2            |
| 90       | 30½  | 50½ | 41½  | 49  | 39  | 34½ | 18  | 34  | 24½ | 25½ | 36½  | 28½  | 37  | 30½ | 8½  | 20 | 44  | 88  | 92   | 52  | 54½  | 54                     | 2 1/8      | 2            |
| 100      | 32½  | 55½ | 45½  | 55  | 43  | 36½ | 20  | 37  | 26½ | 27½ | 40½  | 32½  | 41  | 32½ | 9½  | 20 | 49  | 98  | 101  | 57  | 58½  | 60                     | 2 1/4      | 2            |
| 110      | 36½  | 60½ | 49½  | 60  | 47  | 40½ | 20  | 40½ | 29  | 30½ | 45½  | 36½  | 45  | 35½ | 9½  | 22 | 53½ | 107 | 110½ | 60½ | 64½  | 66                     | 2 1/4      | 2            |
| 120      | 42½  | 64½ | 52½  | 65  | 51  | 41½ | 24  | 44  | 33  | 34½ | 50   | 42½  | 51  | 39½ | 10½ | 24 | 58  | 116 | 117½ | 68  | 72½  | 72                     | 2 1/4      | 2            |
| 140      | 48½  | 78  | 62½  | 77  | 59  | 45½ | 26½ | 50  | 36½ | 38½ | 57½  | 48½  | 60  | 44½ | 12½ | 28 | 68  | 136 | 140½ | 76½ | 81   | 84                     | 3 1/8      | 2            |
| 160      | 54½  | 86  | 69½  | 87  | 67  | 49½ | 32½ | 57  | 38  | 39½ | 65½  | 48½  | 60  | 46  | 12½ | 32 | 77  | 154 | 155½ | 89½ | 84   | 96                     | 3 1/8      | 2            |
| 180      | 61   | 96  | 77½  | 98  | 76  | 57½ | 36  | 65  | 41  | 42½ | 74½  | 55   | 66  | 49  | 12½ | 36 | 87  | 174 | 173½ | 101 | 90   | 108                    | 3 1/2      | 2            |
| 200      | 73   | 105 | 85   | 108 | 84  | 68½ | 40  | 72  | 44½ | 46  | 82½  | 61   | 72  | 52½ | 12½ | 42 | 96  | 192 | 190  | 112 | 96½  | 120                    | 4 1/2      | 2            |
| 220      | 79   | 116 | 94½  | 120 | 91  | 73  | 41  | 81  | 48  | 49½ | 90½  | 67   | 78  | 57  | 14½ | 48 | 107 | 214 | 210½ | 125 | 105  | 132                    | 5          | 2            |
| 240      | 85   | 128 | 104½ | 132 | 101 | 81  | 46  | 90  | 51½ | 53½ | 98½  | 73   | 84  | 60½ | 14½ | 48 | 118 | 236 | 232½ | 136 | 111½ | 144                    | 5          | 2            |
| 260      | 91   | 137 | 111½ | 142 | 112 | 86  | 50  | 97  | 54½ | 56½ | 107½ | 79   | 90  | 63½ | 14½ | 54 | 127 | 254 | 248½ | 147 | 118  | 156                    | 5          | 2            |
| 280      | 97   | 146 | 119  | 152 | 120 | 92  | 54  | 104 | 68½ | 72½ | 116  | 85   | 96  | 80  | 14½ | 54 | 136 | 272 | 265  | 158 | 148½ | 168                    | 6          | 2            |
| 300      | 103  | 156 | 127½ | 163 | 129 | 96  | 58  | 112 | 77½ | 82½ | 124  | 91   | 102 | 91  | 16½ | 60 | 146 | 292 | 283½ | 170 | 168½ | 180                    | 7          | 2            |
| 320      | 109½ | 166 | 133½ | 174 | 138 | 110 | 62  | 120 | 80½ | 85½ | 132  | 97½  | 108 | 94  | 16½ | 72 | 156 | 312 | 299½ | 182 | 174½ | 192                    | 8          | 1            |
| 340      | 115½ | 176 | 144  | 185 | 147 | 114 | 66  | 128 | 83½ |     | 140½ | 103½ | 114 |     |     |    | 166 | 332 | 320  | 194 | 204  |                        | 8          | 1            |
| 360      | 121½ | 186 | 152½ | 196 | 156 | 120 | 70  | 136 | 86½ |     | 148½ | 109½ | 120 |     |     |    | 176 | 352 | 338½ | 206 | 216  |                        | 8          | 1            |
| 400      | 133½ | 206 | 169  | 218 | 174 | 132 | 78  | 152 | 92½ |     | 164½ | 121½ | 132 |     |     |    | 196 | 392 | 375  | 230 | 240  |                        | 8          | 1            |

Double Inlet

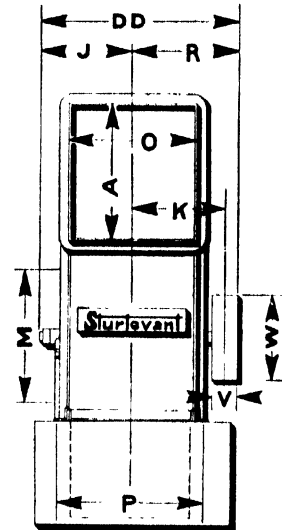
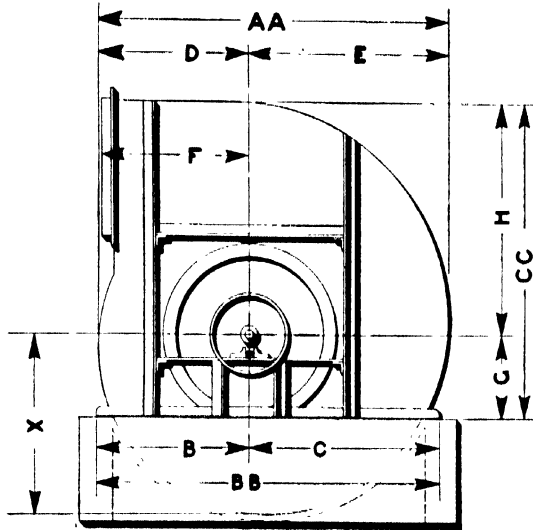
## Steel Plate Fan—Design 1

Single Width

3/4 Housing

Top Horizontal Discharge

Overhung Pulley



| Fan Size | A       | B       | C       | D      | E      | F      | G      | H   | J      | K      | M       | O       | P   | R      | V      | W   | X   | AA  | BB      | CC      | DD      | Extreme Wheel Dia. | Shaft Dia. | Anchor Bolts |
|----------|---------|---------|---------|--------|--------|--------|--------|-----|--------|--------|---------|---------|-----|--------|--------|-----|-----|-----|---------|---------|---------|--------------------|------------|--------------|
| 80       | 28 1/4  | 34      | 40 1/4  | 31     | 39     | 30 1/2 | 15     | 43  | 22 1/4 | 23 1/4 | 31 1/4  | 24 1/4  | 33  | 27 1/4 | 7 1/2  | 18  | 35  | 70  | 74 1/4  | 58      | 50 1/4  | 48                 | 2 3/8      | 1            |
| 90       | 30 1/4  | 36 1/2  | 44 1/4  | 34     | 41     | 34 1/4 | 18     | 49  | 24 1/4 | 25 1/4 | 36 1/4  | 28 1/4  | 37  | 30 1/4 | 8 1/2  | 20  | 39  | 78  | 81 1/4  | 67      | 54 1/4  | 54                 | 2 3/8      | 1            |
| 100      | 32 1/4  | 39      | 49      | 37     | 49     | 36 1/4 | 20     | 55  | 26 1/4 | 27 1/4 | 40 1/4  | 32 1/4  | 41  | 32 1/4 | 8 1/2  | 20  | 43  | 86  | 88      | 75      | 58 1/4  | 60                 | 2 3/8      | 1            |
| 110      | 36 1/4  | 42 1/4  | 53 1/4  | 40 1/2 | 53 1/2 | 40 1/2 | 20     | 60  | 29     | 30 1/4 | 45 1/4  | 36 1/4  | 45  | 35 1/4 | 9 1/4  | 22  | 47  | 94  | 96 1/4  | 80      | 64 1/4  | 66                 | 2 11/16    | 1 1/2        |
| 120      | 42 1/4  | 45 1/4  | 56 1/4  | 41     | 58     | 41 1/4 | 21     | 65  | 33     | 34 1/4 | 50      | 42 1/4  | 51  | 39 1/4 | 10 1/4 | 24  | 51  | 102 | 102     | 89      | 72 1/4  | 72                 | 2 13/16    | 1 1/2        |
| 140      | 48 1/4  | 53      | 68 1/4  | 50     | 68     | 45 1/4 | 26 1/4 | 77  | 36 1/4 | 38 1/4 | 57 1/4  | 48 1/4  | 60  | 44 1/4 | 12 1/4 | 28  | 59  | 118 | 121 1/4 | 103 1/4 | 81      | 84                 | 3 1/8      | 1 1/2        |
| 160      | 54 1/4  | 58 1/4  | 75      | 57     | 77     | 49 1/4 | 32 1/4 | 87  | 38     | 39 1/4 | 65 1/4  | 48 1/4  | 60  | 46     | 12 1/4 | 32  | 67  | 134 | 133 1/4 | 119 1/4 | 84      | 96                 | 3 15/16    | 1 1/2        |
| 180      | 61      | 66      | 84      | 65     | 87     | 57 1/4 | 36     | 98  | 41     | 42 1/4 | 74 1/4  | 55      | 66  | 49     | 12 1/4 | 36  | 76  | 152 | 150     | 134     | 90      | 108                | 3 15/16    | 1 1/2        |
| 200      | 73      | 72      | 91 1/4  | 72     | 96     | 68 1/4 | 40     | 108 | 44 1/4 | 46     | 82 1/4  | 61      | 72  | 52 1/4 | 12 1/4 | 42  | 84  | 168 | 163 1/4 | 148     | 96 1/4  | 120                | 4 1/8      | 1 1/2        |
| 220      | 79      | 80 1/4  | 101 1/4 | 81     | 107    | 73     | 44     | 120 | 48     | 49 1/4 | 90 1/4  | 67      | 78  | 57     | 14 1/4 | 48  | 94  | 188 | 182     | 164     | 105     | 132                | 5          | 1 1/2        |
| 240      | 85      | 89 1/4  | 112 1/4 | 90     | 118    | 81     | 46     | 132 | 51 1/4 | 53 1/4 | 98 1/4  | 73      | 84  | 60 1/4 | 14 1/4 | 48  | 104 | 208 | 202 1/4 | 178     | 111 1/4 | 144                | 5          | 1 1/2        |
| 260      | 91      | 95 1/4  | 120 1/4 | 97     | 127    | 86     | 50     | 142 | 54 1/4 | 56 1/4 | 107 1/4 | 79      | 90  | 63 1/4 | 14 1/4 | 51  | 112 | 224 | 216 1/4 | 192     | 118     | 156                | 5          | 1 1/2        |
| 280      | 97      | 102     | 128 1/4 | 104    | 136    | 92     | 54     | 152 | 68 1/4 | 72 1/4 | 116     | 85      | 96  | 80     | 14 1/4 | 54  | 120 | 240 | 230 1/4 | 206     | 148 1/4 | 168                | 6          | 1 1/2        |
| 300      | 103     | 109 1/4 | 137     | 112    | 146    | 96     | 58     | 163 | 77 1/4 | 82 1/4 | 124     | 91      | 102 | 91     | 16 1/4 | 60  | 129 | 258 | 246 1/4 | 221     | 168 1/4 | 180                | 7          | 1 1/2        |
| 320      | 109 1/4 | 116 1/4 | 146     | 120    | 156    | 110    | 62     | 174 | 80 1/4 | 85 1/4 | 132     | 97      | 108 | 94     | 16 1/4 | 72  | 138 | 276 | 262 1/4 | 236     | 174 1/4 | 192                | 8          | 1 1/2        |
| 340      | 115 1/4 | 122 1/4 | 154 1/4 | 128    | 166    | 114    | 66     | 185 | 83 1/4 | 88 1/4 | 140 1/4 | 103 1/4 | 114 | 114    | 17 1/4 | 84  | 147 | 294 | 277 1/4 | 251     | 204     | 8                  | 1          |              |
| 360      | 121 1/4 | 131     | 163 1/4 | 136    | 176    | 120    | 70     | 196 | 86 1/4 | 91 1/4 | 148 1/4 | 109 1/4 | 120 | 120    | 18 1/4 | 96  | 156 | 312 | 294 1/4 | 266     | 216     | 8                  | 1          |              |
| 400      | 133 1/4 | 145     | 181     | 152    | 196    | 132    | 78     | 218 | 92 1/4 | 97 1/4 | 164 1/4 | 121 1/4 | 132 | 132    | 20 1/4 | 112 | 174 | 348 | 326     | 296     | 240     | 8                  | 1          |              |

Double Inlet

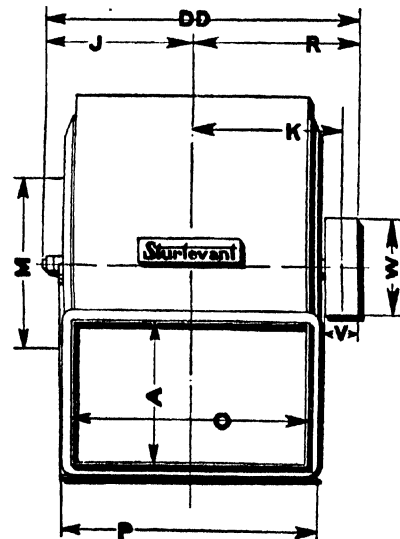
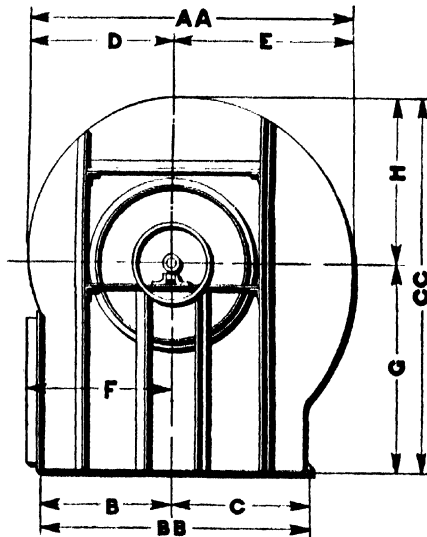
## Steel Plate Fan—Design 1

Double Width

Full Housing

Bottom Horizontal Discharge

Overhung Pulley



| Fan Size | A                | B                | C                | D                | E                | F                | G                | H                | J                | K                | M                | O                | P   | R                 | V                | W  | AA               | BB               | CC                | DD                | Wheel Diameter | Shaft Diameter  | Anchor Bolts |
|----------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----|-------------------|------------------|----|------------------|------------------|-------------------|-------------------|----------------|-----------------|--------------|
| 50       | 18 $\frac{3}{4}$ | 18 $\frac{1}{2}$ | 22               | 21               | 25               | 20 $\frac{1}{2}$ | 28 $\frac{1}{2}$ | 23               | 26               | 28 $\frac{1}{2}$ | 20 $\frac{1}{2}$ | 30 $\frac{1}{2}$ | 34  | 33 $\frac{1}{2}$  | 10 $\frac{1}{2}$ | 10 | 46               | 40 $\frac{1}{2}$ | 51 $\frac{1}{2}$  | 59 $\frac{1}{2}$  | 30             | 2 $\frac{3}{4}$ | 2            |
| 60       | 22 $\frac{1}{4}$ | 20 $\frac{1}{2}$ | 25               | 24               | 30               | 22 $\frac{1}{2}$ | 33 $\frac{1}{2}$ | 27               | 29               | 30 $\frac{1}{2}$ | 26 $\frac{1}{2}$ | 36 $\frac{1}{2}$ | 41  | 35 $\frac{1}{2}$  | 9 $\frac{1}{2}$  | 14 | 54               | 45 $\frac{1}{2}$ | 60 $\frac{1}{2}$  | 61 $\frac{1}{2}$  | 36             | 2 $\frac{1}{2}$ | 3            |
| 70       | 25 $\frac{1}{2}$ | 22 $\frac{1}{2}$ | 30 $\frac{1}{2}$ | 27 $\frac{1}{2}$ | 34 $\frac{1}{2}$ | 24 $\frac{1}{2}$ | 39 $\frac{1}{2}$ | 30 $\frac{1}{2}$ | 33 $\frac{1}{2}$ | 35 $\frac{1}{2}$ | 29 $\frac{1}{2}$ | 42 $\frac{1}{2}$ | 49  | 40 $\frac{1}{2}$  | 10 $\frac{1}{2}$ | 16 | 61 $\frac{1}{2}$ | 53               | 70                | 73 $\frac{1}{2}$  | 42             | 2 $\frac{1}{2}$ | 3            |
| 80       | 28 $\frac{1}{2}$ | 28               | 29 $\frac{1}{2}$ | 31               | 39               | 30 $\frac{1}{2}$ | 45 $\frac{1}{2}$ | 35               | 36 $\frac{1}{2}$ | 38 $\frac{1}{2}$ | 33 $\frac{1}{2}$ | 48 $\frac{1}{2}$ | 57  | 43 $\frac{1}{2}$  | 10 $\frac{1}{2}$ | 18 | 70               | 57 $\frac{1}{2}$ | 80 $\frac{1}{2}$  | 80                | 48             | 2 $\frac{1}{2}$ | 3            |
| 90       | 30 $\frac{1}{2}$ | 31 $\frac{1}{2}$ | 34 $\frac{1}{2}$ | 34               | 44               | 34 $\frac{1}{2}$ | 51 $\frac{1}{2}$ | 39               | 41 $\frac{1}{2}$ | 43 $\frac{1}{2}$ | 36 $\frac{1}{2}$ | 56 $\frac{1}{2}$ | 65  | 49 $\frac{1}{2}$  | 12 $\frac{1}{2}$ | 20 | 78               | 66 $\frac{1}{2}$ | 90 $\frac{1}{2}$  | 91                | 54             | 2 $\frac{1}{2}$ | 3            |
| 100      | 32 $\frac{1}{2}$ | 33 $\frac{1}{2}$ | 35 $\frac{1}{2}$ | 37               | 49               | 36 $\frac{1}{2}$ | 57 $\frac{1}{2}$ | 43               | 46 $\frac{1}{2}$ | 48               | 40 $\frac{1}{2}$ | 64 $\frac{1}{2}$ | 73  | 54 $\frac{1}{2}$  | 12 $\frac{1}{2}$ | 20 | 86               | 69 $\frac{1}{2}$ | 100 $\frac{1}{2}$ | 100 $\frac{1}{2}$ | 60             | 2 $\frac{1}{2}$ | 3            |
| 110      | 36 $\frac{1}{2}$ | 38               | 40 $\frac{1}{2}$ | 40 $\frac{1}{2}$ | 53 $\frac{1}{2}$ | 40 $\frac{1}{2}$ | 63               | 47               | 51 $\frac{1}{2}$ | 52 $\frac{1}{2}$ | 45 $\frac{1}{2}$ | 72 $\frac{1}{2}$ | 81  | 59                | 12 $\frac{1}{2}$ | 22 | 94               | 78 $\frac{1}{2}$ | 110               | 110 $\frac{1}{2}$ | 66             | 3 $\frac{1}{2}$ | 2            |
| 120      | 42 $\frac{1}{2}$ | 38               | 46               | 44               | 58               | 41 $\frac{1}{2}$ | 69               | 51               | 57 $\frac{1}{2}$ | 59 $\frac{1}{2}$ | 50               | 84 $\frac{1}{2}$ | 93  | 66 $\frac{1}{2}$  | 14 $\frac{1}{2}$ | 24 | 102              | 84               | 120               | 124               | 72             | 3 $\frac{1}{2}$ | 3            |
| 140      | 48 $\frac{1}{2}$ | 42               | 49               | 50               | 68               | 45 $\frac{1}{2}$ | 81               | 59               | 74 $\frac{1}{2}$ | 80 $\frac{1}{2}$ | 57 $\frac{1}{2}$ | 96 $\frac{1}{2}$ | 108 | 89                | 16 $\frac{1}{2}$ | 28 | 118              | 91               | 140               | 163 $\frac{1}{2}$ | 84             | 3 $\frac{1}{2}$ | 3            |
| 160      | 54 $\frac{1}{2}$ | 46               | 59               | 57               | 77               | 49 $\frac{1}{2}$ | 91               | 67               | 74 $\frac{1}{2}$ | 80 $\frac{1}{2}$ | 65 $\frac{1}{2}$ | 96 $\frac{1}{2}$ | 108 | 89                | 16 $\frac{1}{2}$ | 32 | 134              | 105              | 158               | 163 $\frac{1}{2}$ | 96             | 4 $\frac{1}{2}$ | 3            |
| 180      | 61               | 53               | 66               | 65               | 87               | 57 $\frac{1}{2}$ | 102              | 76               | 87 $\frac{1}{2}$ | 94               | 74 $\frac{1}{2}$ | 109              | 120 | 103 $\frac{1}{2}$ | 18 $\frac{1}{2}$ | 36 | 152              | 119              | 178               | 190 $\frac{1}{2}$ | 108            | 5               | 3            |
| 200      | 73               | 64               | 84               | 72               | 96               | 68 $\frac{1}{2}$ | 112              | 84               | 93 $\frac{1}{2}$ | 100              | 82 $\frac{1}{2}$ | 121              | 132 | 109 $\frac{1}{2}$ | 18 $\frac{1}{2}$ | 42 | 168              | 148              | 196               | 202 $\frac{1}{2}$ | 120            | 5 $\frac{1}{2}$ | 2            |

Double Inlet

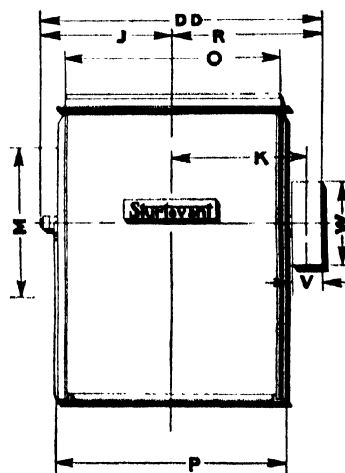
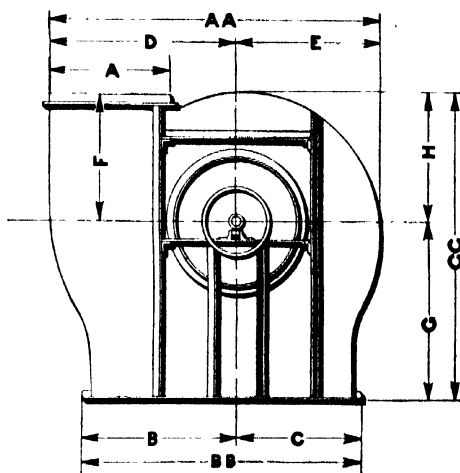
## Steel Plate Fan—Design 1

Double Width

Full Housing

Up Blast Discharge

Overhung Pulley



| Fan Size | A   | B   | C   | D   | E   | F   | G   | H   | J   | K   | M   | O   | P   | R    | V   | W  | AA  | BB  | CC   | DD   | Wheel Dia. | Shaft Diameter | Anchor Bolts |
|----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|----|-----|-----|------|------|------------|----------------|--------------|
| 50       | 18½ | 23½ | 20½ | 27  | 23  | 20½ | 28½ | 21  | 26  | 28½ | 20½ | 30½ | 34  | 33½  | 10½ | 10 | 50  | 44  | 49½  | 59½  | 30         | 2 ½            | 1            |
| 60       | 22½ | 26  | 22  | 33  | 27  | 22½ | 33½ | 24  | 29  | 30½ | 26½ | 36½ | 41  | 35½  | 10½ | 14 | 60  | 48  | 57½  | 64½  | 36         | 2 ½            | 1            |
| 70       | 25½ | 29½ | 24½ | 37½ | 30½ | 24½ | 39½ | 27½ | 33½ | 35½ | 29½ | 42½ | 49  | 40½  | 10½ | 16 | 68½ | 54  | 66½  | 73½  | 42         | 2 ½            | 1            |
| 80       | 28½ | 31  | 31  | 43  | 35  | 30½ | 45  | 31  | 36½ | 38½ | 33½ | 48½ | 57  | 43½  | 10½ | 18 | 78  | 62  | 76   | 80   | 48         | 2 ½            | 1            |
| 90       | 30½ | 34½ | 34½ | 49  | 39  | 34½ | 45  | 34  | 41½ | 43½ | 36½ | 56½ | 65  | 49½  | 12½ | 20 | 88  | 69  | 79   | 91   | 54         | 2 ½            | 1            |
| 100      | 32½ | 35½ | 35½ | 55  | 43  | 36½ | 50  | 37  | 46½ | 48  | 40½ | 64½ | 73  | 54½  | 12½ | 20 | 98  | 71  | 87   | 100½ | 60         | 2 ½            | 1            |
| 110      | 36½ | 40½ | 40½ | 60  | 47  | 40½ | 54½ | 40½ | 51½ | 52½ | 45½ | 72½ | 81  | 59   | 12½ | 22 | 107 | 81  | 95   | 110½ | 66         | 3 ½            | 1            |
| 120      | 42½ | 46  | 46  | 65  | 51  | 41½ | 63  | 44  | 57½ | 59½ | 50  | 84½ | 93  | 66½  | 14½ | 24 | 116 | 92  | 107  | 124  | 72         | 3 ½            | 1            |
| 140      | 48½ | 49  | 49  | 77  | 59  | 45½ | 73½ | 50  | 74½ | 80½ | 57½ | 96½ | 108 | 89   | 16½ | 28 | 136 | 98  | 123½ | 163½ | 84         | 3 ½            | 1            |
| 160      | 54½ | 59  | 59  | 87  | 67  | 49½ | 80  | 57  | 74½ | 80½ | 65½ | 96½ | 108 | 89   | 16½ | 32 | 154 | 118 | 137  | 163½ | 96         | 4 ½            | 1            |
| 180      | 61  | 73  | 63  | 98  | 76  | 57½ | 91  | 65  | 87½ | 94  | 74½ | 109 | 120 | 103½ | 18½ | 36 | 174 | 136 | 156  | 190½ | 108        | 5              | 1            |
| 200      | 73  | 90  | 72  | 108 | 84  | 68½ | 100 | 72  | 93½ | 100 | 82½ | 121 | 132 | 109½ | 18½ | 42 | 192 | 162 | 172  | 202½ | 120        | 5½             | 1            |



Double Inlet

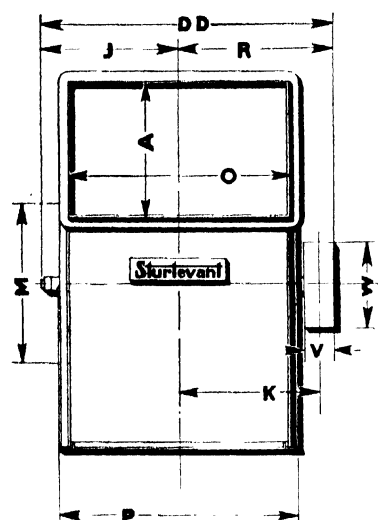
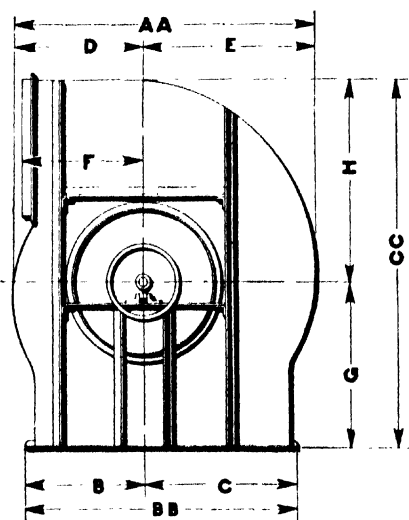
## Steel Plate Fan—Design 1

Double Width

Full Housing

Top Horizontal Discharge

Overhung Pulley



| Fan Size | A   | B   | C   | D   | E   | F   | G   | H   | J   | K   | M   | O   | P   | R    | V   | W  | AA  | BB  | CC   | DD   | Wheel Diameter | Shaft Dia. | Anchor Bolts |
|----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|----|-----|-----|------|------|----------------|------------|--------------|
| 50       | 18½ | 20½ | 23½ | 21  | 25  | 20½ | 28½ | 27  | 26  | 28½ | 20½ | 30½ | 34  | 33½  | 10½ | 10 | 46  | 41  | 55½  | 59½  | 30             | 2½         | 2            |
| 60       | 22½ | 22  | 26  | 24  | 30  | 22½ | 33½ | 33  | 29  | 30½ | 26½ | 36½ | 41  | 35½  | 10½ | 14 | 54  | 48  | 66½  | 64½  | 36             | 2½         | 2            |
| 70       | 25½ | 24½ | 29½ | 27½ | 34½ | 24½ | 39½ | 37½ | 33½ | 35½ | 29½ | 42½ | 49  | 40½  | 10½ | 16 | 61½ | 51  | 77   | 73½  | 42             | 2½         | 2            |
| 80       | 28½ | 31  | 31  | 31  | 39  | 30½ | 36½ | 43  | 36½ | 38½ | 33½ | 48½ | 57  | 43½  | 10½ | 18 | 70  | 62  | 79½  | 80   | 48             | 2½         | 2            |
| 90       | 30½ | 34½ | 34½ | 34  | 41  | 34½ | 45  | 49  | 41½ | 43½ | 36½ | 56½ | 65  | 49½  | 12½ | 20 | 78  | 69  | 94   | 91   | 54             | 2½         | 2            |
| 100      | 32½ | 35½ | 35½ | 37  | 49  | 36½ | 50  | 55  | 46½ | 48  | 40½ | 64½ | 73  | 54½  | 12½ | 20 | 86  | 71  | 105  | 100½ | 60             | 2½         | 2            |
| 110      | 36½ | 40½ | 40½ | 40½ | 53½ | 40½ | 50½ | 60  | 51½ | 52½ | 45½ | 72½ | 81  | 59   | 12½ | 22 | 94  | 81  | 110½ | 110½ | 66             | 3½         | 2            |
| 120      | 42½ | 46  | 46  | 41  | 58  | 41½ | 55  | 65  | 57½ | 59½ | 50  | 84½ | 93  | 66½  | 14½ | 24 | 102 | 92  | 120  | 124  | 72             | 3½         | 2            |
| 130      | 48½ | 49  | 49  | 50  | 68  | 45½ | 61  | 77  | 74½ | 80½ | 57½ | 96½ | 108 | 89   | 16½ | 28 | 118 | 98  | 141  | 163½ | 84             | 3½         | 2            |
| 160      | 54½ | 57  | 63  | 57  | 77  | 49½ | 72  | 87  | 74½ | 80½ | 65½ | 96½ | 108 | 89   | 16½ | 32 | 134 | 120 | 159  | 163½ | 96             | 4½         | 2            |
| 180      | 61  | 63  | 73  | 65  | 87  | 57½ | 80  | 98  | 87½ | 91  | 74½ | 109 | 120 | 103½ | 18½ | 36 | 152 | 136 | 178  | 190½ | 108            | 5          | 2            |
| 200      | 73  | 66  | 84  | 72  | 96  | 68½ | 88  | 108 | 93½ | 100 | 82½ | 121 | 132 | 109½ | 18½ | 42 | 168 | 150 | 196  | 202½ | 120            | 5½         | 2            |

Double Inlet

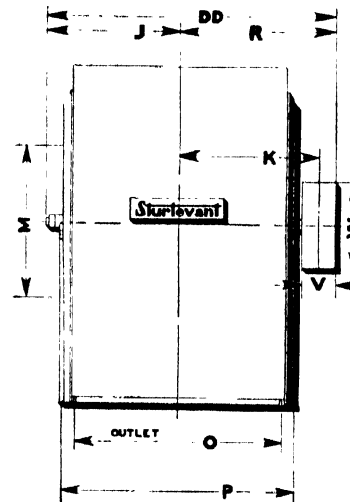
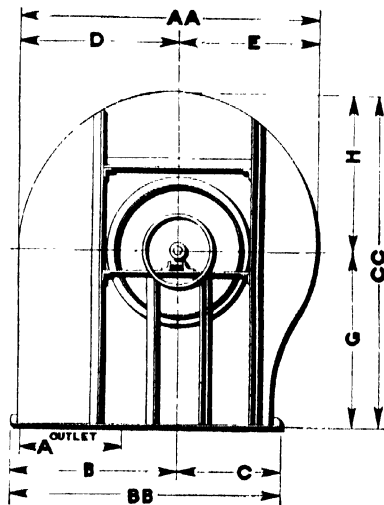
## Steel Plate Fan—Design 1

Double Width

Full Housing

Down Blast Discharge

Overhung Pulley



| Fan Size | A  | B   | C  | D   | E  | G  | H  | J  | K   | M  | O   | P   | R   | V  | W  | AA  | BB  | CC  | DD  | Wheel Diameter | Shaft Dia. | Anchor Bolts |
|----------|----|-----|----|-----|----|----|----|----|-----|----|-----|-----|-----|----|----|-----|-----|-----|-----|----------------|------------|--------------|
| 50       | 18 | 29  | 19 | 27  | 23 | 28 | 25 | 26 | 28  | 20 | 30  | 34  | 33  | 10 | 10 | 50  | 48  | 53  | 59  | 30             | 2          | 2            |
| 60       | 22 | 35  | 23 | 33  | 27 | 33 | 30 | 29 | 30  | 26 | 36  | 41  | 35  | 10 | 14 | 60  | 59  | 63  | 64  | 36             | 2          | 2            |
| 70       | 25 | 41  | 26 | 37  | 30 | 39 | 34 | 33 | 35  | 29 | 42  | 49  | 40  | 10 | 16 | 68  | 68  | 73  | 73  | 42             | 2          | 2            |
| 80       | 28 | 47  | 31 | 43  | 35 | 36 | 39 | 36 | 38  | 33 | 48  | 57  | 43  | 10 | 18 | 78  | 78  | 75  | 80  | 48             | 2          | 2            |
| 90       | 30 | 53  | 34 | 49  | 39 | 44 | 41 | 43 | 43  | 36 | 56  | 65  | 49  | 12 | 20 | 88  | 88  | 89  | 91  | 54             | 2          | 2            |
| 100      | 32 | 59  | 35 | 55  | 43 | 50 | 49 | 46 | 48  | 40 | 64  | 73  | 54  | 12 | 20 | 98  | 95  | 99  | 100 | 60             | 2          | 2            |
| 110      | 36 | 64  | 40 | 60  | 47 | 50 | 53 | 51 | 52  | 45 | 72  | 81  | 59  | 12 | 22 | 107 | 105 | 104 | 110 | 66             | 3          | 2            |
| 120      | 42 | 70  | 46 | 65  | 51 | 55 | 58 | 57 | 59  | 50 | 84  | 93  | 66  | 14 | 24 | 116 | 116 | 113 | 124 | 72             | 3          | 2            |
| 140      | 48 | 82  | 49 | 77  | 59 | 64 | 68 | 74 | 80  | 57 | 96  | 108 | 89  | 16 | 28 | 136 | 131 | 132 | 163 | 84             | 3          | 2            |
| 160      | 51 | 93  | 59 | 87  | 67 | 72 | 77 | 74 | 80  | 65 | 96  | 108 | 89  | 16 | 32 | 154 | 152 | 149 | 163 | 96             | 4          | 2            |
| 180      | 60 | 101 | 68 | 98  | 76 | 80 | 87 | 87 | 94  | 74 | 109 | 120 | 103 | 18 | 36 | 174 | 172 | 167 | 190 | 108            | 5          | 2            |
| 200      | 72 | 113 | 72 | 108 | 84 | 88 | 96 | 93 | 100 | 82 | 121 | 132 | 109 | 18 | 42 | 192 | 185 | 184 | 202 | 120            | 5          | 2            |

Double Inlet

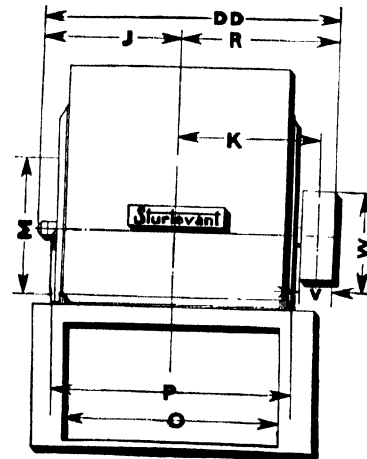
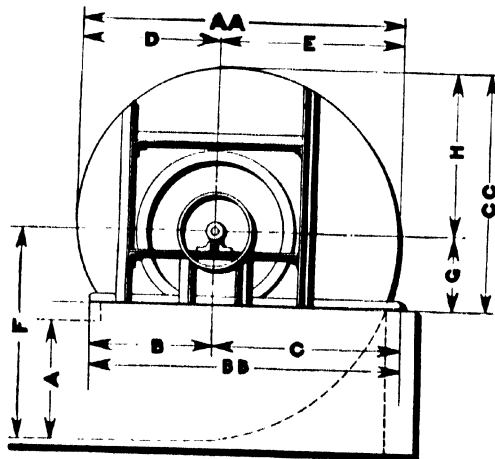
## Steel Plate Fan—Design 1

Double Width

 $\frac{3}{4}$  Housing

Bottom Horizontal Discharge

Overhung Pulley



| Fan Size | A  | B   | C   | D   | E   | F   | G   | H   | J    | K   | M   | O   | P   | R    | V   | W  | AA  | BB   | CC  | DD   | Wheel Diameter | Shaft Dia | Anchor Bolts |
|----------|----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|------|-----|----|-----|------|-----|------|----------------|-----------|--------------|
| 80       | 28 | 32  | 42½ | 31  | 39  | 47  | 15  | 35  | 36½  | 38½ | 31½ | 48  | 57  | 43½  | 10½ | 18 | 70  | 74½  | 50  | 80   | 48             | 2½        | 2            |
| 90       | 30 | 33½ | 46½ | 34  | 41  | 52  | 18  | 39  | 41½  | 43½ | 36½ | 56  | 65  | 49½  | 12½ | 20 | 78  | 80   | 57  | 91   | 51             | 2½        | 2            |
| 100      | 32 | 35  | 51½ | 37  | 49  | 56  | 20  | 43  | 46½  | 48  | 40½ | 64  | 73  | 54½  | 12½ | 20 | 86  | 86½  | 63  | 100½ | 60             | 2½        | 2            |
| 110      | 36 | 39  | 56½ | 40½ | 53½ | 60  | 20  | 47  | 51½  | 52½ | 45½ | 72  | 81  | 59   | 12½ | 22 | 94  | 95½  | 67  | 110½ | 66             | 3½        | 2            |
| 120      | 42 | 40½ | 60  | 44  | 58  | 70  | 24  | 51  | 57½  | 59½ | 50  | 84  | 93  | 66½  | 14½ | 24 | 102 | 100½ | 75  | 124  | 72             | 3½        | 2            |
| 140      | 48 | 47½ | 71½ | 50  | 68  | 78½ | 26½ | 59  | 74½  | 80½ | 57½ | 96  | 108 | 89   | 16½ | 28 | 118 | 119½ | 85½ | 163½ | 84             | 3½        | 2            |
| 160      | 54 | 51  | 79½ | 57  | 77  | 90½ | 32½ | 67  | 74½  | 80½ | 65½ | 96  | 108 | 89   | 16½ | 32 | 134 | 130½ | 99½ | 163½ | 96             | 4½        | 2            |
| 180      | 60 | 57½ | 89½ | 65  | 87  | 100 | 36  | 76  | 87½  | 94  | 74½ | 108 | 120 | 103½ | 18½ | 36 | 152 | 147  | 112 | 190½ | 108            | 5         | 2            |
| 200      | 72 | 63  | 97½ | 72  | 96  | 116 | 40  | 84  | 93½  | 100 | 82½ | 120 | 132 | 109½ | 18½ | 42 | 168 | 160½ | 124 | 202½ | 120            | 5½        | 2            |
| 220      | 78 | 70½ | 108 | 81  | 107 | 126 | 44  | 94  | 99½  | 107 | 90½ | 132 | 144 | 117½ | 20½ | 48 | 188 | 178½ | 138 | 216½ | 132            | 6         | 2            |
| 240      | 84 | 80  | 119 | 90  | 118 | 134 | 46  | 104 | 105½ | 113 | 98½ | 144 | 156 | 123½ | 20½ | 48 | 208 | 199  | 150 | 228½ | 144            | 6         | 2            |

Double Inlet

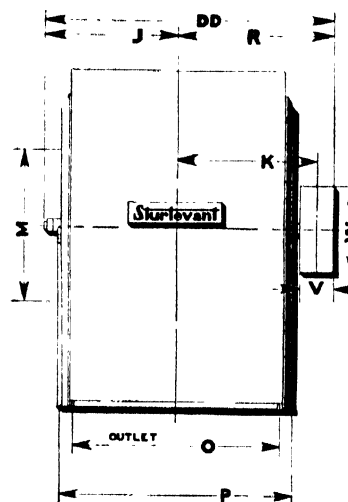
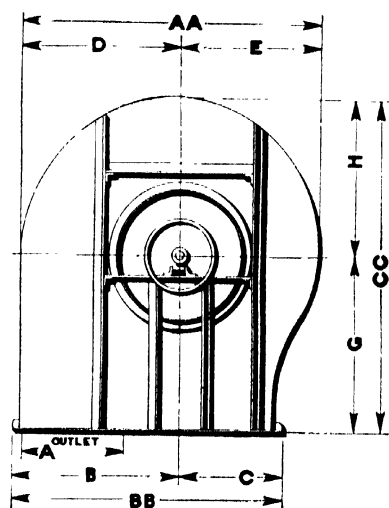
## Steel Plate Fan—Design 1

Double Width

Full Housing

Down Blast Discharge

Overhung Pulley



| Fan Size | A  | B   | C  | D   | E  | G  | H  | J  | K   | M  | O   | P   | R   | V  | W  | AA  | BB  | CC  | DD  | Wheel Diameter | Shaft Dia. | Anchor Bolts |
|----------|----|-----|----|-----|----|----|----|----|-----|----|-----|-----|-----|----|----|-----|-----|-----|-----|----------------|------------|--------------|
| 50       | 18 | 29  | 19 | 27  | 23 | 28 | 25 | 26 | 28  | 20 | 30  | 34  | 33  | 10 | 10 | 50  | 48  | 53  | 59  | 30             | 2          | 2            |
| 60       | 22 | 35  | 23 | 33  | 27 | 33 | 30 | 29 | 30  | 26 | 36  | 41  | 35  | 10 | 14 | 60  | 59  | 63  | 64  | 36             | 2          | 2            |
| 70       | 25 | 41  | 26 | 37  | 30 | 39 | 34 | 33 | 35  | 29 | 42  | 49  | 40  | 10 | 16 | 68  | 68  | 73  | 73  | 42             | 2          | 2            |
| 80       | 28 | 47  | 31 | 43  | 35 | 36 | 39 | 36 | 38  | 33 | 48  | 57  | 43  | 10 | 18 | 78  | 78  | 75  | 80  | 48             | 2          | 2            |
| 90       | 30 | 53  | 34 | 49  | 39 | 44 | 41 | 43 | 43  | 36 | 56  | 65  | 49  | 12 | 20 | 88  | 88  | 89  | 91  | 54             | 2          | 2            |
| 100      | 32 | 59  | 35 | 55  | 43 | 50 | 49 | 46 | 48  | 40 | 64  | 73  | 54  | 12 | 20 | 98  | 95  | 99  | 100 | 60             | 2          | 2            |
| 110      | 36 | 64  | 40 | 60  | 47 | 50 | 53 | 51 | 52  | 45 | 72  | 81  | 59  | 12 | 22 | 107 | 105 | 104 | 110 | 66             | 3          | 2            |
| 120      | 42 | 70  | 46 | 65  | 51 | 55 | 58 | 57 | 59  | 50 | 84  | 93  | 66  | 14 | 24 | 116 | 116 | 113 | 124 | 72             | 3          | 2            |
| 140      | 48 | 82  | 49 | 77  | 59 | 64 | 68 | 74 | 80  | 57 | 96  | 108 | 89  | 16 | 28 | 136 | 131 | 132 | 163 | 84             | 3          | 2            |
| 160      | 51 | 93  | 59 | 87  | 67 | 72 | 77 | 74 | 80  | 65 | 96  | 108 | 89  | 16 | 32 | 154 | 152 | 149 | 163 | 96             | 4          | 2            |
| 180      | 60 | 101 | 68 | 98  | 76 | 80 | 87 | 87 | 94  | 74 | 109 | 120 | 103 | 18 | 36 | 174 | 172 | 167 | 190 | 108            | 5          | 2            |
| 200      | 72 | 113 | 72 | 108 | 84 | 88 | 96 | 93 | 100 | 82 | 121 | 132 | 109 | 18 | 42 | 192 | 185 | 184 | 202 | 120            | 5          | 2            |

Double Inlet

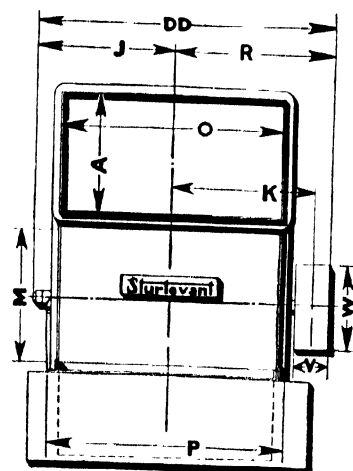
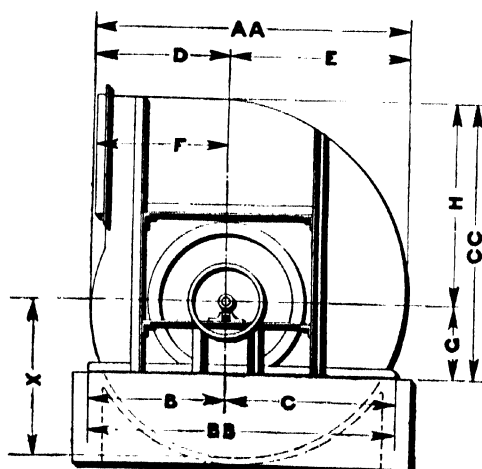
## Steel Plate Fan—Design 1

Double Width

¾ Housing

Top Horizontal Discharge

Overhung Pulley



| Fan Size | A   | B   | C    | D   | E   | F   | G   | H   | J    | K   | M   | O   | P   | R    | V   | W  | X   | AA  | BB   | CC   | DD   | Wheel Dia. | Shaft Dia. | Anchor Bolts |
|----------|-----|-----|------|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|------|-----|----|-----|-----|------|------|------|------------|------------|--------------|
| 80       | 28½ | 34  | 40½  | 31  | 39  | 30½ | 15  | 43  | 36½  | 38½ | 31½ | 48½ | 57  | 43½  | 10½ | 18 | 35  | 70  | 74½  | 58   | 80   | 48         | 2 1/8      | 5/8          |
| 90       | 30½ | 36½ | 44½  | 31  | 41  | 31½ | 18  | 49  | 41½  | 43½ | 36½ | 56½ | 65  | 49½  | 12½ | 20 | 39  | 78  | 81½  | 67   | 91   | 54         | 2 1/8      | 5/8          |
| 100      | 32½ | 39  | 49   | 37  | 49  | 36½ | 20  | 55  | 46½  | 48  | 40½ | 64½ | 73  | 51½  | 12½ | 20 | 43  | 86  | 88   | 75   | 100½ | 60         | 2 1/8      | 5/8          |
| 110      | 36½ | 42½ | 53½  | 40½ | 53½ | 40½ | 20  | 60  | 51½  | 52½ | 45½ | 72½ | 81  | 59   | 12½ | 22 | 47  | 94  | 96½  | 80   | 110½ | 66         | 3 1/8      | 3/4          |
| 120      | 42½ | 45½ | 56½  | 44  | 58½ | 41½ | 24  | 65  | 57½  | 59½ | 50  | 84½ | 93  | 66½  | 14½ | 24 | 51  | 102 | 102  | 89   | 124  | 72         | 3 1/8      | 3/4          |
| 140      | 48½ | 53  | 68½  | 50  | 68  | 45½ | 26½ | 77  | 74½  | 80½ | 57½ | 96½ | 108 | 89   | 16½ | 28 | 59  | 118 | 121½ | 103½ | 163½ | 81         | 3 1/8      | 3/4          |
| 160      | 54½ | 58½ | 75   | 57  | 77  | 49½ | 32½ | 87  | 71½  | 80½ | 65½ | 96½ | 108 | 89   | 16½ | 32 | 67  | 131 | 133½ | 119½ | 163½ | 96         | 4 1/8      | 3/4          |
| 180      | 61  | 66  | 84   | 65  | 87  | 57½ | 36  | 98  | 87½  | 91  | 71½ | 109 | 120 | 103½ | 18½ | 36 | 76  | 152 | 150  | 134  | 190½ | 108        | 5          | 1 1/4        |
| 200      | 73  | 72  | 91½  | 72  | 96  | 68½ | 40  | 108 | 93½  | 100 | 82½ | 121 | 132 | 109½ | 18½ | 42 | 84  | 168 | 163½ | 148  | 202½ | 120        | 5½         | 1 1/4        |
| 220      | 79  | 80½ | 101½ | 81  | 107 | 73  | 44  | 120 | 99½  | 107 | 90½ | 133 | 144 | 177½ | 20½ | 48 | 94  | 188 | 182  | 164  | 216½ | 132        | 6          | 1 1/4        |
| 240      | 85  | 89½ | 112½ | 90  | 118 | 81  | 46  | 132 | 105½ | 113 | 98½ | 145 | 156 | 123½ | 20½ | 48 | 104 | 208 | 202½ | 178  | 228½ | 144        | 6          | 1 1/4        |

Single Inlet

## 30" Steel Plate Fan—Design 1

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                     | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. |
|--------|------------------|------------------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|
|        |                  |                  | Static Pressure 1/2" Water .0722 oza. per sq. inch  |       | Static Pressure 1/4" Water .145 oza. per sq. inch   |       | Static Pressure 3/8" Water .217 oza. per sq. inch   |       | Static Pressure 1/2" Water .289 oza. per sq. inch   |       | Static Pressure 5/8" Water .361 oza. per sq. inch |       | Static Pressure 3/4" Water .434 oza. per sq. inch   |       | Static Pressure 7/8" Water .506 oza. per sq. inch   |       |
| 295    | 1400             | 0 157            | 320   | 0 012 |   |       |   |       |   |       |   |       |   |       |   |       |
| 339    | 1600             | 0 205            | 469   | 0 022 |   |       |   |       |   |       |   |       |   |       |   |       |
| 382    | 1800             | 0 259            | 596   | 0 034 | 296   | 0 021 |   |       |   |       |   |       |   |       |   |       |
| 425    | 2000             | 0 320            | 711   | 0 048 | 469   | 0 034 |   |       |   |       |   |       |   |       |   |       |
| 467    | 2200             | 0 387            | 818   | 0 067 | 621   | 0 055 | 300   | 0 038 |   |       |   |       |   |       |   |       |
| 510    | 2400             | 0 460            | 913   | 0 089 | 752   | 0 077 | 533   | 0 062 |   |       |   |       |   |       |   |       |
| 551    | 2600             | 0 540            | 1,010   | 0 115 | 874   | 0 100 | 685   | 0 087 | 469   | 0 075 |   |       |   |       |   |       |
| 595    | 2800             | 0 626            | 1,100   | 0 145 | 993   | 0 130 | 829   | 0 115 | 639   | 0 099 |   |       |   |       |   |       |
| 637    | 3000             | 0 718            | 1,190   | 0 185 | 1,100   | 0 170 | 960   | 0 150 | 792   | 0 135 | 605   | 0 115 |   |       |   |       |
| 680    | 3200             | 0 816            | 1,270   | 0 225 | 1,200   | 0 210 | 1,080   | 0 190 | 937   | 0 175 | 767   | 0 155 | 581   | 0 125 |   |       |
| 721    | 3400             | 0 922            | 1,360   | 0 265 | 1,300   | 0 255 | 1,200   | 0 235 | 1,070   | 0 225 | 919   | 0 195 | 739   | 0 170 | 577   | 0 145 |
| 765    | 3600             | 1 03             | 1,450   | 0 330 | 1,380   | 0 31  | 1,300   | 0 290 | 1,190   | 0 265 | 1,060   | 0 245 | 900   | 0 225 | 756   | 0 200 |
| 806    | 3800             | 1 15             | 1,540   | 0 385 | 1,480   | 0 36  | 1,410   | 0 340 | 1,310   | 0 320 | 1,190   | 0 310 | 1,050   | 0 275 | 916   | 0 255 |
| 850    | 4000             | 1 28             | 1,620   | 0 445 |   |       | 1,510   | 0 415 | 1,400   | 0 385 | 1,320   | 0 375 | 1,200   | 0 340 | 1,080   | 0 320 |
| 891    | 4200             | 1 41             | 1,710   | 0 52  |   |       | 1,610   | 0 49  | 1,530   | 0 46  | 1,450   | 0 435 | 1,330   | 0 415 | 1,220   | 0 395 |
| 935    | 4400             | 1 54             | 1,790   | 0 60  |   |       | 1,700   | 0 55  | 1,630   | 0 53  | 1,560   | 0 51  | 1,460   | 0 49  | 1,340   | 0 47  |
| 976    | 4600             | 1 69             | 1,880   | 0 68  |   |       | 1,790   | 0 65  | 1,740   | 0 63  | 1,670   | 0 61  | 1,570   | 0 57  | 1,490   | 0 55  |
| 1019   | 4800             | 1 84             | 1,960   | 0 78  |   |       | 1,880   | 0 73  | 1,830   | 0 71  | 1,770   | 0 69  | 1,690   | 0 66  | 1,600   | 0 64  |
| 1060   | 5000             | 2 00             | 2,050   | 0 88  |   |       |   |       | 1,920   | 0 82  | 1,870   | 0 80  | 1,800   | 0 77  | 1,720   | 0 73  |
| 1113   | 5250             | 2 20             | 2,150   | 1 05  |   |       |   |       | 2,040   | 0 95  | 1,990   | 0 93  | 1,930   | 0 91  | 1,860   | 0 87  |
| 1168   | 5500             | 2 42             | 2,260   | 1 20  |   |       |   |       | 2,160   | 1 1   | 2,110   | 1 10  | 2,050   | 1 05  | 1,990   | 1 05  |
| 1220   | 5750             | 2 54             | 2,350   | 1 30  |   |       |   |       |   |       | 2,210   | 1 20  | 2,170   | 1 15  | 2,110   | 1 15  |
| 1272   | 6000             | 2 87             | 2,470   | 1 55  |   |       |   |       |   |       | 2,320   | 1 15  | 2,300   | 1 40  | 2,260   | 1 40  |
| 1328   | 6250             | 3 12             | 2,560   | 1 75  |   |       |   |       |   |       |   |       | 2,410   | 1 60  | 2,350   | 1 55  |
| 1380   | 6500             | 3 38             | 2,680   | 1 95  |   |       |   |       |   |       |   |       | 2,510   | 1 85  | 2,490   | 1 80  |
| 1431   | 6750             | 3 63             | 2,780   | 2 20  |   |       |   |       |   |       |   |       |   |       | 2,610   | 2 00  |
| 1486   | 7000             | 3 91             | 2,880   | 2 45  |   |       |   |       |   |       |   |       |   |       | 2,780   | 2 25  |
| 1590   | 7500             | 4 50             | 3,090   | 3     |   |       |   |       |   |       |   |       |   |       |   |       |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 oza. per sq. inch     |       | Static Pressure 1 1/4" Water .723 oza. per sq. inch |       | Static Pressure 1 1/2" Water .878 oza. per sq. inch |       | Static Pressure 1 3/4" Water 1.01 oza. per sq. inch |       | Static Pressure 2" Water 1.16 oza. per sq. inch   |       | Static Pressure 2 1/4" Water 1.30 oza. per sq. inch |       | Static Pressure 2 1/2" Water 1.45 oza. per sq. inch |       |
| 765    | 3600             | 1 03             | 590   | 0 170 |   |       |   |       |   |       |   |       |   |       |   |       |
| 806    | 3800             | 1 15             | 766   | 0 225 |   |       |   |       |   |       |   |       |   |       |   |       |
| 850    | 4000             | 1 28             | 936   | 0 300 | 643   | 0 255 |   |       |   |       |   |       |   |       |   |       |
| 891    | 4200             | 1 41             | 1,090   | 0 360 | 820   | 0 300 |   |       |   |       |   |       |   |       |   |       |
| 935    | 4400             | 1 54             | 1,230   | 0 435 | 976   | 0 375 | 711   | 0 300 |   |       |   |       |   |       |   |       |
| 976    | 4600             | 1 69             | 1,380   | 0 51  | 1,140   | 0 47  | 891   | 0 395 |   |       |   |       |   |       |   |       |
| 1019   | 4800             | 1 84             | 1,500   | 0 62  | 1,300   | 0 55  | 1,070   | 0 49  | 813   | 0 405 |   |       |   |       |   |       |
| 1060   | 5000             | 2 00             | 1,630   | 0 71  | 1,440   | 0 65  | 1,230   | 0 60  | 983   | 0 51  |   |       |   |       |   |       |
| 1113   | 5250             | 2 20             | 1,770   | 0 84  | 1,610   | 0 79  | 1,420   | 0 73  | 1,200   | 0 65  | 980   | 0 56  |   |       |   |       |
| 1168   | 5500             | 2 42             | 1,920   | 0 99  | 1,770   | 0 95  | 1,580   | 0 88  | 1,390   | 0 81  | 1,200   | 0 72  | 985   | 0 64  |   |       |
| 1220   | 5750             | 2 54             | 2,040   | 1 10  | 1,890   | 1 05  | 1,750   | 1 00  | 1,590   | 0 95  | 1,400   | 0 88  | 1,120   | 0 77  |   |       |
| 1272   | 6000             | 2 87             | 2,200   | 1 35  | 2,070   | 1 25  | 1,920   | 1 20  | 1,760   | 1 15  | 1,580   | 1 05  | 1,400   | 0 99  | 1,210   | 0 87  |
| 1328   | 6250             | 3 12             | 2,330   | 1 55  | 2,210   | 1 45  | 2,070   | 1 40  | 1,930   | 1 35  | 1,780   | 1 25  | 1,600   | 1 20  | 1,420   | 1 10  |
| 1380   | 6500             | 3 38             | 2,450   | 1 75  | 2,350   | 1 70  | 2,210   | 1 60  | 2,100   | 1 55  | 1,950   | 1 45  | 1,780   | 1 40  | 1,620   | 1 30  |
| 1431   | 6750             | 3 63             | 2,570   | 2 00  | 2,480   | 1 90  | 2,360   | 1 85  | 2,240   | 1 75  | 2,110   | 1 70  | 1,960   | 1 60  | 1,810   | 1 55  |
| 1486   | 7000             | 3 91             | 2,690   | 2 25  | 2,600   | 2 15  | 2,500   | 2 10  | 2,380   | 2 00  | 2,260   | 1 95  | 2,130   | 1 85  | 1,980   | 1 75  |
| 1590   | 7500             | 4 50             | 2,920   | 2 8   | 2,850   | 2 75  | 2,760   | 2 65  | 2,660   | 2 55  | 2,580   | 2 45  | 2,440   | 2 40  | 2,320   | 2 35  |
| 1698   | 8000             | 5 11             |   |       | 3,080   | 3 4   | 3,020   | 3 3   | 2,940   | 3 20  | 2,850   | 3 10  | 2,740   | 3 00  | 2,640   | 3 00  |
| 1802   | 8500             | 5 76             |   |       | 3,310   | 4 1   | 3,260   | 4 0   | 3,170   | 3 95  | 3,110   | 3 85  | 3,020   | 3 70  | 2,940   | 3 60  |
| 1910   | 9000             | 6 46             |   |       | 3,540   | 4 9   | 3,480   | 4 8   | 3,430   | 4 7   | 3,370   | 4 6   | 3,290   | 4 55  | 3,220   | 4 55  |
| 2020   | 9500             | 7 20             |   |       |   |       | 3,720   | 5 7   | 3,660   | 5 7   | 3,600   | 5 5   | 3,540   | 5 4   | 3,490   | 5 3   |
| 2120   | 10000            | 7 98             |   |       |   |       | 3,960   | 6 8   | 3,900   | 6 6   | 3,850   | 6 6   | 3,790   | 6 4   | 3,730   | 6 4   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 2 3/4" Water 1.59 oza. per sq. inch |       | Static Pressure 3" Water 1.73 oza. per sq. inch     |       | Static Pressure 3 1/4" Water 2.02 oza. per sq. inch |       | Static Pressure 3 1/2" Water 2.31 oza. per sq. inch |       | Static Pressure 4" Water 2.69 oza. per sq. inch   |       | Static Pressure 4 1/2" Water 3.47 oza. per sq. inch |       | Static Pressure 5" Water 4.05 oza. per sq. inch     |       |
| 1328   | 6250             | 3 12             | 1,230   | 1 00  |   |       |   |       |   |       |   |       |   |       |   |       |
| 1380   | 6500             | 3 38             | 1,440   | 1 20  | 1,200   | 1 10  |   |       |   |       |   |       |   |       |   |       |
| 1431   | 6750             | 3 63             | 1,630   | 1 45  | 1,470   | 1 35  |   |       |   |       |   |       |   |       |   |       |
| 1486   | 7000             | 3 91             | 1,830   | 1 70  | 1,690   | 1 60  | 1,340   | 1 40  |   |       |   |       |   |       |   |       |
| 1590   | 7500             | 4 50             | 2,200   | 2 25  | 2,060   | 2 15  | 1,760   | 1 95  | 1,460   | 1 70  |   |       |   |       |   |       |
| 1698   | 8000             | 5 11             | 2,530   | 2 85  | 2,410   | 2 75  | 2,150   | 2 55  | 1,870   | 2 35  | 1,280   | 1 85  |   |       |   |       |
| 1802   | 8500             | 5 76             | 2,840   | 3 55  | 2,730   | 3 40  | 2,490   | 3 30  | 2,240   | 3 10  | 1,710   | 2 55  |   |       |   |       |
| 1910   | 9000             | 6 46             | 3,130   | 4 35  | 3,020   | 4 25  | 2,830   | 4 05  | 2,600   | 3 85  | 2,120   | 3 30  | 1,620   | 2 75  |   |       |
| 2020   | 9500             | 7 20             | 3,400   | 5 2   | 3,320   | 5 1   | 3,150   | 4 9   | 2,940   | 4 7   | 2,510   | 4 25  | 2,040   | 3 7   | 1,540   | 3 10  |
| 2120   | 10000            | 7 98             | 3,670   | 6 2   | 3,600   | 6 2   | 3,430   | 6     | 3,260   | 5 7   | 2,880   | 5 2   | 2,450   | 4 7   | 1,980   | 4 05  |

Single Inlet

## 35" Steel Plate Fan—Design 1

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. |
|--------|------------------|------------------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|
|        |                  |                  | Static Pressure 1/2" Water .0722 ozs. per sq. inch  |       | Static Pressure 1/2" Water .145 ozs. per sq. inch   |       | Static Pressure 3/4" Water .217 ozs. per sq. inch   |       | Static Pressure 1" Water .289 ozs. per sq. inch     |       | Static Pressure 1 1/4" Water .361 ozs. per sq. inch |       | Static Pressure 1 1/2" Water .434 ozs. per sq. inch |       | Static Pressure 1 3/4" Water .506 ozs. per sq. inch |       |
| 255    | 1400             | 0 157            | 478   | 0 017 |   |       |   |       |   |       |   |       |   |       |   |       |
| 291    | 1600             | 0 205            | 701   | 0 034 |   |       |   |       |   |       |   |       |   |       |   |       |
| 328    | 1800             | 0 259            | 893   | 0 051 | 443   | 0 032 |   |       |   |       |   |       |   |       |   |       |
| 364    | 2000             | 0 320            | 1,070   | 0 072 | 701   | 0 051 |   |       |   |       |   |       |   |       |   |       |
| 400    | 2200             | 0 387            | 1,230   | 0 100 | 931   | 0 083 | 539   | 0 057 |   |       |   |       |   |       |   |       |
| 436    | 2400             | 0 460            | 1,370   | 0 135 | 1,130   | 0 115 | 797   | 0 092 |   |       |   |       |   |       |   |       |
| 473    | 2600             | 0 540            | 1,510   | 0 170 | 1,310   | 0 155 | 1,030   | 0 130 | 701   | 0 110 |   |       |   |       |   |       |
| 509    | 2800             | 0 626            | 1,650   | 0 220 | 1,490   | 0 200 | 1,240   | 0 175 | 956   | 0 150 |   |       |   |       |   |       |
| 545    | 3000             | 0 718            | 1,780   | 0 275 | 1,650   | 0 250 | 1,410   | 0 225 | 1,190   | 0 200 | 906   | 0 170 |   |       |   |       |
| 582    | 3200             | 0 816            | 1,910   | 0 335 | 1,800   | 0 310 | 1,620   | 0 285 | 1,400   | 0 260 | 1,150   | 0 230 | 870   | 0 190 |   |       |
| 619    | 3400             | 0 922            | 2,040   | 0 400 | 1,940   | 0 385 | 1,800   | 0 35  | 1,610   | 0 335 | 1,380   | 0 295 | 1,110   | 0 255 | 865   | 0 215 |
| 655    | 3600             | 1 03             | 2,170   | 0 495 | 2,070   | 0 46  | 1,950   | 0 43  | 1,790   | 0 40  | 1,590   | 0 365 | 1,350   | 0 335 | 1,130   | 0 300 |
| 690    | 3800             | 1 15             | 2,300   | 0 57  | 2,220   | 0 54  | 2,120   | 0 51  | 1,950   | 0 48  | 1,790   | 0 46  | 1,580   | 0 415 | 1,370   | 0 385 |
| 727    | 4000             | 1 28             | 2,430   | 0 67  |   |       | 2,260   | 0 62  | 2,130   | 0 57  | 1,980   | 0 56  | 1,800   | 0 51  | 1,610   | 0 48  |
| 764    | 4200             | 1 41             | 2,560   | 0 78  |   |       | 2,410   | 0 73  | 2,290   | 0 69  | 2,170   | 0 65  | 2,000   | 0 62  | 1,830   | 0 59  |
| 800    | 4400             | 1 54             | 2,690   | 0 89  |   |       | 2,510   | 0 83  | 2,450   | 0 80  | 2,340   | 0 77  | 2,180   | 0 73  | 2,010   | 0 70  |
| 837    | 4600             | 1 69             | 2,810   | 1 00  |   |       | 2,680   | 0 97  | 2,610   | 0 94  | 2,510   | 0 91  | 2,360   | 0 86  | 2,220   | 0 83  |
| 873    | 4800             | 1 84             | 2,930   | 1 15  |   |       | 2,810   | 1 1   | 2,740   | 1 05  | 2,640   | 1 05  | 2,530   | 0 99  | 2,400   | 0 96  |
| 910    | 5000             | 2 00             | 3,060   | 1 30  |   |       |   |       | 2,880   | 1 25  | 2,800   | 1 20  | 2,700   | 1 15  | 2,570   | 1 10  |
| 955    | 5250             | 2 20             | 3,220   | 1 55  |   |       |   |       | 3,060   | 1 45  | 2,980   | 1 40  | 2,900   | 1 35  | 2,790   | 1 30  |
| 1000   | 5500             | 2 42             | 3,380   | 1 80  |   |       |   |       | 3,220   | 1 7   | 3,160   | 1 65  | 3,070   | 1 60  | 2,990   | 1 55  |
| 1046   | 5750             | 2 54             | 3,530   | 1 95  |   |       |   |       |   |       | 3,310   | 1 80  | 3,250   | 1 75  | 3,160   | 1 70  |
| 1090   | 6000             | 2 87             | 3,700   | 2 30  |   |       |   |       |   |       | 3,480   | 2 15  | 3,450   | 2 10  | 3,380   | 2 05  |
| 1137   | 6250             | 3 12             | 3,850   | 2 60  |   |       |   |       |   |       |   |       | 3,620   | 2 40  | 3,520   | 2 35  |
| 1181   | 6500             | 3 38             | 4,010   | 2 95  |   |       |   |       |   |       |   |       | 3,800   | 2 75  | 3,730   | 2 70  |
| 1228   | 6750             | 3 63             | 4,140   | 3 30  |   |       |   |       |   |       |   |       |   |       | 3,900   | 3 00  |
| 1271   | 7000             | 3 91             | 4,310   | 3 65  |   |       |   |       |   |       |   |       |   |       | 4,080   | 3 35  |
| 1362   | 7500             | 4 50             | 4,620   | 4 45  |   |       |   |       |   |       |   |       |   |       |   |       |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 ozs. per sq. inch     |       | Static Pressure 1 1/4" Water .723 ozs. per sq. inch |       | Static Pressure 1 1/2" Water .878 ozs. per sq. inch |       | Static Pressure 1 3/4" Water 1.01 ozs. per sq. inch |       | Static Pressure 2" Water 1.16 ozs. per sq. inch     |       | Static Pressure 2 1/4" Water 1.30 ozs. per sq. inch |       | Static Pressure 2 1/2" Water 1.45 ozs. per sq. inch |       |
| 655    | 3600             | 1 03             | 884   | 0 250 |   |       |   |       |   |       |   |       |   |       |   |       |
| 690    | 3800             | 1 15             | 1,150   | 0 335 |   |       |   |       |   |       |   |       |   |       |   |       |
| 727    | 4000             | 1 28             | 1,400   | 0 445 | 964   | 0 380 |   |       |   |       |   |       |   |       |   |       |
| 764    | 4200             | 1 41             | 1,630   | 0 54  | 1,230   | 0 445 |   |       |   |       |   |       |   |       |   |       |
| 800    | 4400             | 1 54             | 1,840   | 0 65  | 1,460   | 0 56  | 1,070   | 0 445 |   |       |   |       |   |       |   |       |
| 837    | 4600             | 1 69             | 2,070   | 0 77  | 1,710   | 0 70  | 1,340   | 0 59  |   |       |   |       |   |       |   |       |
| 873    | 4800             | 1 84             | 2,250   | 0 93  | 1,940   | 0 83  | 1,590   | 0 73  | 1,220   | 0 61  |   |       |   |       |   |       |
| 910    | 5000             | 2 00             | 2,450   | 1 05  | 2,160   | 0 97  | 1,830   | 0 80  | 1,490   | 0 77  |   |       |   |       |   |       |
| 955    | 5250             | 2 20             | 2,660   | 1 25  | 2,410   | 1 2   | 2,120   | 1 10  | 1,790   | 0 97  | 1,470   | 0 85  |   |       |   |       |
| 1000   | 5500             | 2 42             | 2,880   | 1 50  | 2,660   | 1 4   | 2,380   | 1 30  | 2,080   | 1 20  | 1,790   | 1 10  | 1,480   | 0 96  |   |       |
| 1046   | 5750             | 2 54             | 3,070   | 1 65  | 2,840   | 1 6   | 2,630   | 1 50  | 2,380   | 1 40  | 2,100   | 1 30  | 1,680   | 1 15  |   |       |
| 1090   | 6000             | 2 87             | 3,280   | 2 00  | 3,060   | 1 9   | 2,870   | 1 80  | 2,630   | 1 70  | 2,370   | 1 60  | 2,100   | 1 5   | 1,840   | 1 35  |
| 1137   | 6250             | 3 12             | 3,490   | 2 35  | 3,310   | 2 2   | 3,100   | 2 10  | 2,800   | 2 00  | 2,670   | 1 90  | 2,390   | 1 8   | 2,120   | 1 65  |
| 1181   | 6500             | 3 38             | 3,670   | 2 65  | 3,510   | 2 5   | 3,320   | 2 40  | 3,140   | 2 35  | 2,920   | 2 15  | 2,670   | 2 1   | 2,430   | 2 00  |
| 1228   | 6750             | 3 63             | 3,850   | 3 00  | 3,720   | 2 9   | 3,540   | 2 75  | 3,350   | 2 65  | 3,160   | 2 55  | 2,930   | 2 4   | 2,720   | 2 30  |
| 1271   | 7000             | 3 91             | 4,020   | 3 35  | 3,890   | 3 2   | 3,730   | 3 10  | 3,570   | 3 0   | 3,380   | 2 90  | 3,190   | 2 8   | 2,970   | 2 65  |
| 1362   | 7500             | 4 50             | 4,370   | 4 3   | 4,270   | 4 1   | 4,150   | 4 00  | 3,990   | 3 8   | 3,860   | 3 65  | 3,670   | 3 6   | 3,480   | 3 50  |
| 1453   | 8000             | 5 11             |   |       | 4,620   | 5 1   | 4,530   | 4 95  | 4,400   | 4 8   | 4,270   | 4 6   | 4,110   | 4 5   | 3,960   | 4 45  |
| 1545   | 8500             | 5 76             |   |       | 4,970   | 6 1   | 4,880   | 6 1   | 4,750   | 5 9   | 4,650   | 5 7   | 4,540   | 5 6   | 4,400   | 5 1   |
| 1637   | 9000             | 6 46             |   |       | 5,310   | 7 4   | 5,230   | 7 2   | 5,140   | 7 0   | 5,040   | 6 9   | 4,940   | 6 8   | 4,810   | 6 5   |
| 1728   | 9500             | 7 20             |   |       |   |       | 5,580   | 8 6   | 5,490   | 8 6   | 5,390   | 8 3   | 5,310   | 8 1   | 5,230   | 8 0   |
| 1819   | 10000            | 7 98             |   |       |   |       | 5,930   | 10    | 5,840   | 9 9   | 5,770   | 9 9   | 5,690   | 9 6   | 5,580   | 9 6   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 2 3/4" Water 1.59 ozs. per sq. inch |       | Static Pressure 3" Water 1.73 ozs. per sq. inch     |       | Static Pressure 3 1/2" Water 2.02 ozs. per sq. inch |       | Static Pressure 4" Water 2.31 ozs. per sq. inch     |       | Static Pressure 4 1/2" Water 2.59 ozs. per sq. inch |       | Static Pressure 5" Water 3.47 ozs. per sq. inch     |       | Static Pressure 5 1/2" Water 4.05 ozs. per sq. inch |       |
| 1137   | 6250             | 3 12             | 1,850   | 1 50  |   |       |   |       |   |       |   |       |   |       |   |       |
| 1181   | 6500             | 3 38             | 2,160   | 1 85  | 1,890   | 1 65  |   |       |   |       |   |       |   |       |   |       |
| 1228   | 6750             | 3 63             | 2,450   | 2 15  | 2,200   | 2 00  |   |       |   |       |   |       |   |       |   |       |
| 1271   | 7000             | 3 91             | 2,740   | 2 55  | 2,510   | 2 40  | 2,020   | 2 05  |   |       |   |       |   |       |   |       |
| 1362   | 7500             | 4 50             | 3,290   | 3 35  | 3,080   | 3 20  | 2,630   | 2 90  | 2,180   | 2 55  |   |       |   |       |   |       |
| 1453   | 8000             | 5 11             | 3,790   | 4 3   | 3,600   | 4 15  | 3,220   | 3 80  | 2,800   | 3 5   | 1,910   | 2 75  |   |       |   |       |
| 1545   | 8500             | 5 76             | 4,270   | 5 3   | 4,080   | 5 1   | 3,730   | 4 95  | 3,350   | 4 6   | 2,560   | 3 85  |   |       |   |       |
| 1637   | 9000             | 6 46             | 4,690   | 6 5   | 4,530   | 6 4   | 4,250   | 6 1   | 3,890   | 5 7   | 3,180   | 4 95  | 2,420   | 4 15  |   |       |
| 1728   | 9500             | 7 20             | 5,100   | 7 8   | 4,970   | 7 7   | 4,720   | 7 3   | 4,400   | 7 0   | 3,760   | 6 4   | 3,060   | 5 6   | 2,310   | 4 6   |
| 1819   | 10000            | 7 98             | 5,500   | 9 4   | 5,390   | 9 3   | 5,140   | 8 9   | 4,880   | 8 6   | 4,300   | 7 8   | 3,670   | 7     | 2,970   | 6 1   |

Single Inlet

## 40" Steel Plate Fan—Design 1

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                     | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. |
|--------|------------------|------------------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|
|        |                  |                  | Static Pressure 1/2" Water .0722 ozs. per sq. inch  |       | Static Pressure 1/2" Water .145 ozs. per sq. inch   |       | Static Pressure 3/4" Water .217 ozs. per sq. inch |       | Static Pressure 1" Water .289 ozs. per sq. inch     |       | Static Pressure 1 1/4" Water .361 ozs. per sq. inch |       | Static Pressure 1 1/2" Water .434 ozs. per sq. inch |       | Static Pressure 1 3/4" Water .506 ozs. per sq. inch |       |
| 223    | 1400             | 0 157            | 626   | 0 024 |   |       |   |       |   |       |   |       |   |       |   |       |
| 255    | 1600             | 0 205            | 918   | 0 044 |   |       |   |       |   |       |   |       |   |       |   |       |
| 287    | 1800             | 0 259            | 1,170   | 0 067 | 580   | 0 041 |   |       |   |       |   |       |   |       |   |       |
| 318    | 2000             | 0 320            | 1,390   | 0 094 | 918   | 0 067 |   |       |   |       |   |       |   |       |   |       |
| 350    | 2200             | 0 387            | 1,600   | 0 130 | 1,220   | 0 11  | 705   | 0 075 |   |       |   |       |   |       |   |       |
| 382    | 2400             | 0 460            | 1,790   | 0 175 | 1,470   | 0 15  | 1,040   | 0 120 |   |       |   |       |   |       |   |       |
| 414    | 2600             | 0 540            | 1,970   | 0 225 | 1,710   | 0 20  | 1,340   | 0 170 | 918   | 0 145 |   |       |   |       |   |       |
| 445    | 2800             | 0 626            | 2,150   | 0 29  | 1,950   | 0 26  | 1,620   | 0 230 | 1,250   | 0 195 |   |       |   |       |   |       |
| 478    | 3000             | 0 718            | 2,330   | 0 36  | 2,160   | 0 33  | 1,880   | 0 295 | 1,550   | 0 265 | 1,180   | 0 220 |   |       |   |       |
| 510    | 3200             | 0 816            | 2,490   | 0 41  | 2,350   | 0 41  | 2,120   | 0 37  | 1,810   | 0 34  | 1,500   | 0 300 | 1,140   | 0 245 |   |       |
| 541    | 3400             | 0 922            | 2,670   | 0 52  | 2,540   | 0 50  | 2,350   | 0 46  | 2,100   | 0 41  | 1,800   | 0 385 | 1,150   | 0 335 | 1,130   | 0 285 |
| 573    | 3600             | 1 03             | 2,840   | 0 65  | 2,700   | 0 60  | 2,550   | 0 56  | 2,340   | 0 52  | 2,080   | 0 48  | 1,760   | 0 44  | 1,480   | 0 39  |
| 605    | 3800             | 1 15             | 3,010   | 0 75  | 2,900   | 0 71  | 2,760   | 0 67  | 2,560   | 0 63  | 2,340   | 0 60  | 2,070   | 0 51  | 1,790   | 0 50  |
| 637    | 4000             | 1 28             | 3,180   | 0 88  |   |       | 2,960   | 0 81  | 2,780   | 0 75  | 2,590   | 0 73  | 2,360   | 0 67  | 2,110   | 0 63  |
| 670    | 4200             | 1 41             | 3,350   | 1 00  |   |       | 3,150   | 0 96  | 3,000   | 0 90  | 2,840   | 0 86  | 2,610   | 0 81  | 2,390   | 0 77  |
| 700    | 4400             | 1 54             | 3,520   | 1 15  |   |       | 3,320   | 1 10  | 3,200   | 1 05  | 3,060   | 1 00  | 2,850   | 0 96  | 2,630   | 0 92  |
| 732    | 4600             | 1 69             | 3,680   | 1 35  |   |       | 3,510   | 1 25  | 3,410   | 1 25  | 3,280   | 1 20  | 3,080   | 1 15  | 2,910   | 1 10  |
| 765    | 4800             | 1 84             | 3,830   | 1 50  |   |       | 3,690   | 1 45  | 3,590   | 1 40  | 3,460   | 1 35  | 3,310   | 1 30  | 3,140   | 1 25  |
| 796    | 5000             | 2 00             | 4,010   | 1 75  |   |       |   |       | 3,760   | 1 60  | 3,650   | 1 55  | 3,530   | 1 50  | 3,360   | 1 45  |
| 836    | 5250             | 2 20             | 4,210   | 2 00  |   |       |   |       | 4,000   | 1 85  | 3,900   | 1 80  | 3,790   | 1 80  | 3,610   | 1 70  |
| 875    | 5500             | 2 42             | 4,420   | 2 35  |   |       |   |       | 4,210   | 2 2   | 4,140   | 2 15  | 4,020   | 2 10  | 3,900   | 2 00  |
| 915    | 5750             | 2 54             | 4,620   | 2 55  |   |       |   |       |   |       | 4,330   | 2 35  | 4,250   | 2 30  | 4,130   | 2 25  |
| 955    | 6000             | 2 87             | 4,840   | 3 00  |   |       |   |       |   |       | 4,550   | 2 8   | 4,500   | 2 75  | 4,420   | 2 70  |
| 996    | 6250             | 3 12             | 5,030   | 3 40  |   |       |   |       |   |       |   |       | 4,730   | 3 15  | 4,600   | 3 10  |
| 1031   | 6500             | 3 38             | 5,250   | 3 85  |   |       |   |       |   |       |   |       | 4,960   | 3 65  | 4,880   | 3 50  |
| 1074   | 6750             | 3 63             | 5,450   | 4 3   |   |       |   |       |   |       |   |       |   |       | 5,100   | 3 95  |
| 1115   | 7000             | 3 91             | 5,630   | 4 8   |   |       |   |       |   |       |   |       |   |       | 5,340   | 4 4   |
| 1193   | 7500             | 4 50             | 6,050   | 5 8   |   |       |   |       |   |       |   |       |   |       |   |       |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1 1/2" Water .578 ozs. per sq. inch |       | Static Pressure 1 3/4" Water .723 ozs. per sq. inch |       | Static Pressure 2" Water .878 ozs. per sq. inch   |       | Static Pressure 2 1/4" Water 1.01 ozs. per sq. inch |       | Static Pressure 2 1/2" Water 1.16 ozs. per sq. inch |       | Static Pressure 2 3/4" Water 1.30 ozs. per sq. inch |       | Static Pressure 3" Water 1.45 ozs. per sq. inch     |       |
| 573    | 3600             | 1 03             | 1,160   | 0 33  |   |       |   |       |   |       |   |       |   |       |   |       |
| 605    | 3800             | 1 15             | 1,500   | 0 44  |   |       |   |       |   |       |   |       |   |       |   |       |
| 637    | 4000             | 1 28             | 1,840   | 0 58  | 1,260   | 0 50  |   |       |   |       |   |       |   |       |   |       |
| 670    | 4200             | 1 41             | 2,130   | 0 71  | 1,610   | 0 58  |   |       |   |       |   |       |   |       |   |       |
| 700    | 4400             | 1 54             | 2,410   | 0 86  | 1,910   | 0 73  | 1,390   | 0 58  |   |       |   |       |   |       |   |       |
| 732    | 4600             | 1 69             | 2,710   | 1 00  | 2,230   | 0 92  | 1,750   | 0 77  |   |       |   |       |   |       |   |       |
| 765    | 4800             | 1 84             | 2,950   | 1 20  | 2,540   | 1 10  | 2,090   | 0 96  | 1,590   | 0 79  |   |       |   |       |   |       |
| 796    | 5000             | 2 00             | 3,200   | 1 40  | 2,820   | 1 25  | 2,400   | 1 15  | 1,950   | 1 00  |   |       |   |       |   |       |
| 836    | 5250             | 2 20             | 3,480   | 1 65  | 3,160   | 1 55  | 2,780   | 1 45  | 2,350   | 1 25  | 1,920   | 1 10  |   |       |   |       |
| 875    | 5500             | 2 42             | 3,760   | 1 95  | 3,480   | 1 85  | 3,120   | 1 75  | 2,730   | 1 60  | 2,340   | 1 40  | 1,930   | 1 25  |   |       |
| 915    | 5750             | 2 54             | 3,990   | 2 15  | 3,720   | 2 05  | 3,440   | 1 95  | 3,010   | 1 85  | 2,740   | 1 75  | 2,200   | 1 50  |   |       |
| 955    | 6000             | 2 87             | 4,300   | 2 65  | 4,050   | 2 45  | 3,760   | 2 40  | 3,440   | 2 25  | 3,100   | 2 10  | 2,740   | 1 95  | 2,360   | 1 75  |
| 996    | 6250             | 3 12             | 4,560   | 3 05  | 4,330   | 2 90  | 4,060   | 2 75  | 3,780   | 2 65  | 3,500   | 2 45  | 3,130   | 2 30  | 2,780   | 2 15  |
| 1031   | 6500             | 3 38             | 4,800   | 3 45  | 4,590   | 3 30  | 4,340   | 3 15  | 4,100   | 3 05  | 3,820   | 2 85  | 3,500   | 2 75  | 3,180   | 2 60  |
| 1074   | 6750             | 3 63             | 5,040   | 3 9   | 4,860   | 3 75  | 4,630   | 3 6   | 4,380   | 3 45  | 4,130   | 3 35  | 3,840   | 3 15  | 3,550   | 3 00  |
| 1115   | 7000             | 3 91             | 5,250   | 4 4   | 5,100   | 4 15  | 4,880   | 4 1   | 4,670   | 3 9   | 4,420   | 3 8   | 4,180   | 3 65  | 3,880   | 3 45  |
| 1193   | 7500             | 4 50             | 5,710   | 5 6   | 5,590   | 5 4   | 5,420   | 5 2   | 5,210   | 5 0   | 5,050   | 4 8   | 4,800   | 4 75  | 4,550   | 4 6   |
| 1273   | 8000             | 5 11             |   |       | 6,050   | 6 6   | 5,910   | 6 5   | 5,750   | 6 3   | 5,590   | 6 0   | 5,370   | 5 9   | 5,170   | 5 8   |
| 1352   | 8500             | 5 76             |   |       | 6,500   | 8 0   | 6,390   | 7 9   | 6,210   | 7 7   | 6,090   | 7 5   | 5,940   | 7 3   | 5,750   | 7 1   |
| 1433   | 9000             | 6 46             |   |       | 6,950   | 9 7   | 6,830   | 9 4   | 6,720   | 9 2   | 6,600   | 9     | 6,460   | 8 9   | 6,300   | 8 6   |
| 1511   | 9500             | 7 20             |   |       |   |       | 7,300   | 11 5  | 7,180   | 11 5  | 7,050   | 11    | 6,950   | 10 5  | 6,850   | 10 5  |
| 1591   | 10000            | 7 98             |   |       |   |       | 7,760   | 13 5  | 7,640   | 13    | 7,550   | 13    | 7,430   | 12 5  | 7,300   | 12 5  |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 3" Water 1.59 ozs. per sq. inch     |       | Static Pressure 3 1/2" Water 1.73 ozs. per sq. inch |       | Static Pressure 4" Water 2.02 ozs. per sq. inch   |       | Static Pressure 4 1/2" Water 2.31 ozs. per sq. inch |       | Static Pressure 5" Water 2.69 ozs. per sq. inch     |       | Static Pressure 5 1/2" Water 3.47 ozs. per sq. inch |       | Static Pressure 6" Water 4.05 ozs. per sq. inch     |       |
| 996    | 6250             | 3 12             | 2,410   | 1 95  |   |       |   |       |   |       |   |       |   |       |   |       |
| 1031   | 6500             | 3 38             | 2,830   | 2 4   | 2,470   | 2 15  |   |       |   |       |   |       |   |       |   |       |
| 1074   | 6750             | 3 63             | 3,200   | 2 8   | 2,880   | 2 65  |   |       |   |       |   |       |   |       |   |       |
| 1115   | 7000             | 3 91             | 3,590   | 3 3   | 3,300   | 3 15  | 2,640   | 2 7   |   |       |   |       |   |       |   |       |
| 1193   | 7500             | 4 50             | 4,310   | 4 4   | 4,010   | 4 15  | 3,440   | 3 8   | 2,850   | 3 35  |   |       |   |       |   |       |
| 1273   | 8000             | 5 11             | 4,960   | 5 6   | 4,710   | 5 4   | 4,210   | 5 0   | 3,960   | 4 6   | 2,500   | 3 6   |   |       |   |       |
| 1352   | 8500             | 5 76             | 5,580   | 7 0   | 5,340   | 6 7   | 4,890   | 6 5   | 4,390   | 6 0   | 3,350   | 5 0   |   |       |   |       |
| 1433   | 9000             | 6 46             | 6,140   | 8 5   | 5,930   | 8 3   | 5,550   | 7 9   | 5,100   | 7 5   | 4,160   | 6 5   | 3,170   | 5 4   |   |       |
| 1511   | 9500             | 7 20             | 6,660   | 10    | 6,500   | 10    | 6,180   | 9 6   | 5,750   | 9 2   | 4,920   | 8 3   | 4,000   | 7 3   | 3,020   | 6 0   |
| 1591   | 10000            | 7 98             | 7,200   | 12    | 7,050   | 12    | 6,720   | 11 5  | 6,390   | 11 5  | 5,630   | 10    | 4,800   | 9 2   | 3,880   | 7 9   |



| Single Inlet   |                  |                  | 45" Steel Plate Fan—Design 1                        |       |   |       |   |       |   |       |   |       | Single Width  |       |   |       |
|--|------------------|------------------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|
| When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances |                  |                  |   |       |   |       |   |       |   |       |   |       |   |       |   |       |
| R.P.M.   | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                     | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                     | H. P. |
|  |                  |                  | Static Pressure 1/2" Water .0722 ozs. per sq. inch  |       | Static Pressure 1/2" Water .145 ozs. per sq. inch   |       | Static Pressure 3/4" Water .217 ozs. per sq. inch   |       | Static Pressure 1" Water .289 ozs. per sq. inch     |       | Static Pressure 5/4" Water .361 ozs. per sq. inch |       | Static Pressure 3" Water .434 ozs. per sq. inch     |       | Static Pressure 7/8" Water .506 ozs. per sq. inch |       |
| 198  | 1100             | 0 157            | 790   | 0 031 |   |       |   |       |   |       |   |       |   |       |   |       |
| 226  | 1600             | 0 205            | 1,160   | 0 055 |   |       |   |       |   |       |   |       |   |       |   |       |
| 255  | 1800             | 0 259            | 1,180   | 0 081 | 733   | 0 052 |   |       |   |       |   |       |   |       |   |       |
| 283  | 2000             | 0 320            | 1,760   | 0 120 | 1,160   | 0 081 |   |       |   |       |   |       |   |       |   |       |
| 311  | 2200             | 0 387            | 2,020   | 0 165 | 1,540   | 0 135 | 890   | 0 095 |   |       |   |       |   |       |   |       |
| 340  | 2400             | 0 460            | 2,260   | 0 220 | 1,860   | 0 190 | 1,320   | 0 155 |   |       |   |       |   |       |   |       |
| 368  | 2600             | 0 540            | 2,490   | 0 285 | 2,160   | 0 255 | 1,700   | 0 215 | 1,160   | 0 185 |   |       |   |       |   |       |
| 396  | 2800             | 0 626            | 2,720   | 0 365 | 2,460   | 0 325 | 2,050   | 0 290 | 1,580   | 0 245 |   |       |   |       |   |       |
| 425  | 3000             | 0 718            | 2,940   | 0 455 | 2,720   | 0 415 | 2,380   | 0 375 | 1,960   | 0 330 | 1,500   | 0 280 |   |       |   |       |
| 452  | 3200             | 0 816            | 3,150   | 0 55  | 2,970   | 0 52  | 2,680   | 0 47  | 2,320   | 0 425 | 1,900   | 0 380 | 1,440   | 0 31  |   |       |
| 481  | 3400             | 0 922            | 3,370   | 0 66  | 3,210   | 0 63  | 2,970   | 0 58  | 2,660   | 0 55  | 2,280   | 0 485 | 1,830   | 0 42  | 1,430   | 0 360 |
| 510  | 3600             | 1 03             | 3,580   | 0 82  | 3,420   | 0 76  | 3,220   | 0 71  | 2,950   | 0 66  | 2,630   | 0 61  | 2,230   | 0 55  | 1,870   | 0 495 |
| 537  | 3800             | 1 15             | 3,800   | 0 95  | 3,670   | 0 9   | 3,490   | 0 81  | 3,230   | 0 79  | 2,950   | 0 76  | 2,610   | 0 69  | 2,270   | 0 63  |
| 566  | 4000             | 1 28             | 4,010   | 1 10  |   |       | 3,740   | 1 05  | 3,520   | 0 95  | 3,270   | 0 92  | 2,980   | 0 84  | 2,660   | 0 79  |
| 595  | 4200             | 1 41             | 4,230   | 1 30  |   |       | 3,980   | 1 20  | 3,790   | 1 15  | 3,580   | 1 10  | 3,300   | 1 05  | 3,020   | 0 98  |
| 622  | 4400             | 1 54             | 4,450   | 1 50  |   |       | 4,200   | 1 35  | 4,050   | 1 30  | 3,870   | 1 25  | 3,600   | 1 20  | 3,330   | 1 15  |
| 651  | 4600             | 1 69             | 4,650   | 1 70  |   |       | 4,410   | 1 6   | 4,310   | 1 55  | 4,150   | 1 50  | 3,900   | 1 40  | 3,680   | 1 35  |
| 680  | 4800             | 1 84             | 4,850   | 1 90  |   |       | 4,650   | 1 8   | 4,540   | 1 75  | 4,370   | 1 70  | 4,180   | 1 65  | 3,970   | 1 60  |
| 707  | 5000             | 2 00             | 5,060   | 2 20  |   |       |   |       | 4,760   | 2 05  | 4,620   | 2 00  | 4,460   | 1 90  | 4,250   | 1 80  |
| 733  | 5250             | 2 20             | 5,330   | 2 55  |   |       |   |       | 5,060   | 2 35  | 4,930   | 2 30  | 4,790   | 2 25  | 4,610   | 2 15  |
| 779  | 5500             | 2 42             | 5,590   | 2 95  |   |       |   |       | 5,330   | 2 75  | 5,230   | 2 70  | 5,080   | 2 65  | 4,940   | 2 55  |
| 811  | 5750             | 2 54             | 5,840   | 3 20  |   |       |   |       |   |       | 5,480   | 3 00  | 5,370   | 2 9   | 5,220   | 2 80  |
| 850  | 6000             | 2 87             | 6,110   | 3 80  |   |       |   |       |   |       | 5,750   | 3 55  | 5,700   | 3 5   | 5,590   | 3 45  |
| 885  | 6250             | 3 12             | 6,360   | 4 30  |   |       |   |       |   |       |   |       | 5,990   | 4 0   | 5,820   | 3 90  |
| 920  | 6500             | 3 38             | 6,640   | 4 85  |   |       |   |       |   |       |   |       | 6,290   | 4 6   | 6,170   | 4 45  |
| 955  | 6750             | 3 63             | 6,890   | 5 4   |   |       |   |       |   |       |   |       |   |       | 6,450   | 5 0   |
| 990  | 7000             | 3 91             | 7,120   | 6 1   |   |       |   |       |   |       |   |       |   |       | 6,750   | 5 5   |
| 1060   | 7500             | 4 50             | 7,650   | 7 4   |   |       |   |       |   |       |   |       |   |       |   |       |
| R.P.M.   | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .723 ozs. per sq. inch     |       | Static Pressure 1 1/4" Water .878 ozs. per sq. inch |       | Static Pressure 1 1/2" Water 1.01 ozs. per sq. inch |       | Static Pressure 1 3/4" Water 1.16 ozs. per sq. inch |       | Static Pressure 2" Water 1.30 ozs. per sq. inch   |       | Static Pressure 2 1/4" Water 1.45 ozs. per sq. inch |       |   |       |
| 510  | 3600             | 1 03             | 1,460   | 0 415 |   |       |   |       |   |       |   |       |   |       |   |       |
| 537  | 3800             | 1 15             | 1,900   | 0 55  |   |       |   |       |   |       |   |       |   |       |   |       |
| 566  | 4000             | 1 28             | 2,320   | 0 74  | 1,590   | 0 63  |   |       |   |       |   |       |   |       |   |       |
| 595  | 4200             | 1 41             | 2,690   | 0 90  | 2,030   | 0 74  |   |       |   |       |   |       |   |       |   |       |
| 622  | 4400             | 1 54             | 3,050   | 1 10  | 2,420   | 0 92  | 1,760   | 0 74  |   |       |   |       |   |       |   |       |
| 651  | 4600             | 1 69             | 3,420   | 1 25  | 2,820   | 1 15  | 2,210   | 0 98  |   |       |   |       |   |       |   |       |
| 680  | 4800             | 1 84             | 3,720   | 1 55  | 3,210   | 1 35  | 2,640   | 1 20  | 2,010   | 1 00  |   |       |   |       |   |       |
| 707  | 5000             | 2 00             | 4,050   | 1 75  | 3,560   | 1 60  | 3,030   | 1 50  | 2,460   | 1 25  |   |       |   |       |   |       |
| 733  | 5250             | 2 20             | 4,400   | 2 10  | 3,990   | 1 95  | 3,510   | 1 80  | 2,970   | 1 60  | 2,420   | 1 40  |   |       |   |       |
| 779  | 5500             | 2 42             | 4,760   | 2 45  | 4,390   | 2 35  | 3,940   | 2 20  | 3,450   | 2 00  | 2,960   | 1 80  | 2,440   | 1 60  |   |       |
| 811  | 5750             | 2 54             | 5,050   | 2 75  | 4,700   | 2 60  | 4,340   | 2 50  | 3,930   | 2 35  | 3,460   | 2 20  | 2,780   | 1 90  |   |       |
| 850  | 6000             | 2 87             | 5,430   | 3 30  | 5,110   | 3 10  | 4,750   | 3 00  | 4,350   | 2 85  | 3,920   | 2 65  | 3,470   | 2 45  | 2,980   | 2 20  |
| 885  | 6250             | 3 12             | 5,770   | 3 90  | 5,480   | 3 65  | 5,120   | 3 50  | 4,770   | 3 30  | 4,410   | 3 1   | 3,960   | 2 95  | 3,500   | 2 75  |
| 920  | 6500             | 3 38             | 6,060   | 4 40  | 5,800   | 4 15  | 5,480   | 4 00  | 5,190   | 3 85  | 4,830   | 3 6   | 4,420   | 3 45  | 4,010   | 3 25  |
| 955  | 6750             | 3 63             | 6,360   | 4 95  | 6,150   | 4 75  | 5,850   | 4 55  | 5,540   | 4 30  | 5,210   | 4 2   | 4,850   | 4 0   | 4,490   | 3 80  |
| 990  | 7000             | 3 91             | 6,650   | 5 5   | 6,430   | 5 3   | 6,100   | 5 2   | 5,900   | 4 95  | 5,590   | 4 8   | 5,280   | 4 6   | 4,900   | 4 35  |
| 1060   | 7500             | 4 50             | 7,220   | 7 1   | 7,060   | 6 9   | 6,850   | 6 6   | 6,590   | 6 3   | 6,380   | 6 1   | 6,060   | 6 0   | 5,750   | 5 8   |
| 1131   | 8000             | 5 11             |   |       | 7,650   | 8 4   | 7,490   | 8 2   | 7,280   | 7 9   | 7,060   | 7 6   | 6,800   | 7 4   | 6,540   | 7 4   |
| 1201   | 8500             | 5 76             |   |       | 8,210   | 10    | 8,070   | 10    | 7,850   | 9 8   | 7,700   | 9 5   | 7,500   | 9 2   | 7,270   | 9     |
| 1273   | 9000             | 6 46             |   |       | 8,780   | 12    | 8,650   | 12    | 8,490   | 11 5  | 8,330   | 11 5  | 8,160   | 11 0  | 7,960   | 11    |
| 1343   | 9500             | 7 20             |   |       |   |       | 9,230   | 14    | 9,060   | 14 0  | 8,900   | 13 5  | 8,790   | 13 5  | 8,650   | 13    |
| 1414   | 10000            | 7 98             |   |       |   |       | 9,800   | 17    | 9,650   | 16 5  | 9,550   | 16 5  | 9,400   | 16    | 9,220   | 16    |
| R.P.M.   | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 2 1/4" Water 1.59 ozs. per sq. inch |       | Static Pressure 3" Water 1.73 ozs. per sq. inch     |       | Static Pressure 3 1/4" Water 2.02 ozs. per sq. inch |       | Static Pressure 4" Water 2.31 ozs. per sq. inch     |       | Static Pressure 5" Water 2.89 ozs. per sq. inch   |       | Static Pressure 6" Water 3.47 ozs. per sq. inch     |       | Static Pressure 7" Water 4.05 ozs. per sq. inch   |       |
| 885  | 6250             | 3 12             | 3,050   | 2 50  |   |       |   |       |   |       |   |       |   |       |   |       |
| 920  | 6500             | 3 38             | 3,570   | 3 00  | 3,020   | 2 75  |   |       |   |       |   |       |   |       |   |       |
| 955  | 6750             | 3 63             | 4,010   | 3 55  | 3,640   | 3 3   |   |       |   |       |   |       |   |       |   |       |
| 990  | 7000             | 3 91             | 4,530   | 4 2   | 4,170   | 4 0   | 3,330   | 3 45  |   |       |   |       |   |       |   |       |
| 1060   | 7500             | 4 50             | 5,140   | 5 6   | 5,100   | 5 3   | 4,350   | 4 8   | 3,600   | 4 2   |   |       |   |       |   |       |
| 1131   | 8000             | 5 11             | 6,260   | 7 1   | 5,950   | 6 9   | 5,320   | 6 3   | 4,620   | 5 8   | 3,160   | 4 55  |   |       |   |       |
| 1201   | 8500             | 5 76             | 7,050   | 8 8   | 6,750   | 8 4   | 6,160   | 8 2   | 5,540   | 7 6   | 4,240   | 6 3   |   |       |   |       |
| 1273   | 9000             | 6 46             | 7,750   | 10 5  | 7,480   | 10 5  | 7,010   | 10    | 6,430   | 9 5   | 5,260   | 8 2   | 4,000   | 6 9   |   |       |
| 1343   | 9500             | 7 20             | 8,420   | 13 0  | 8,220   | 12 5  | 7,800   | 12    | 7,270   | 11 5  | 6,210   | 10 5  | 5,050   | 9 2   | 3,820   | 7 6   |
| 1414   | 10000            | 7 98             | 9,090   | 15 5  | 8,900   | 15 5  | 8,490   | 15    | 8,060   | 14    | 7,110   | 13    | 6,060   | 11 5  | 4,900   | 10    |

Single Inlet

## 50" Steel Plate Fan—Design 1

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.<br>Static Pressure<br>1/2" Water<br>.0722 ozs. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure<br>1/2" Water<br>.145 ozs. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure<br>3/4" Water<br>.217 ozs. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure<br>1" Water<br>.289 ozs. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure<br>1 1/4" Water<br>.361 ozs. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure<br>1 1/2" Water<br>.434 ozs. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure<br>1 3/4" Water<br>.506 ozs. per sq. inch | H. P. |
|--------|------------------|------------------|---|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|
| 178    | 1400             | 0 157            | 979   | 0 038 |  |       |  |       |  |       |  |       |  |       |  |       |
| 204    | 1600             | 0 205            | 1,440   | 0 068 |  |       |  |       |  |       |  |       |  |       |  |       |
| 229    | 1800             | 0 259            | 1,830   | 0 105 | 906  | 0 065 |  |       |  |       |  |       |  |       |  |       |
| 255    | 2000             | 0 320            | 2,180   | 0 115 | 1,440  | 0 105 |  |       |  |       |  |       |  |       |  |       |
| 280    | 2200             | 0 387            | 2,500   | 0 205 | 1,900  | 0 170 | 1,100  | 0 115 |  |       |  |       |  |       |  |       |
| 306    | 2400             | 0 460            | 2,800   | 0 275 | 2,300  | 0 235 | 1,630  | 0 190 |  |       |  |       |  |       |  |       |
| 331    | 2600             | 0 540            | 3,080   | 0 35  | 2,670  | 0 315 | 2,100  | 0 265 | 1,440  | 0 230 |  |       |  |       |  |       |
| 356    | 2800             | 0 626            | 3,370   | 0 45  | 3,040  | 0 405 | 2,540  | 0 360 | 1,960  | 0 305 |  |       |  |       |  |       |
| 382    | 3000             | 0 718            | 3,640   | 0 56  | 3,370  | 0 52  | 2,940  | 0 465 | 2,430  | 0 41  | 1,850  | 0 345 |  |       |  |       |
| 407    | 3200             | 0 816            | 3,900   | 0 68  | 3,680  | 0 64  | 3,310  | 0 58  | 2,870  | 0 53  | 2,350  | 0 47  | 1,780  | 0 385 |  |       |
| 433    | 3400             | 0 922            | 4,170   | 0 82  | 3,970  | 0 78  | 3,670  | 0 72  | 3,280  | 0 68  | 2,810  | 0 60  | 2,260  | 0 52  | 1,770  | 0 445 |
| 458    | 3600             | 1 03             | 4,440   | 1 00  | 4,230  | 0 95  | 3,990  | 0 88  | 3,650  | 0 82  | 3,250  | 0 75  | 2,760  | 0 69  | 2,320  | 0 61  |
| 484    | 3800             | 1 15             | 4,700   | 1 15  | 4,540  | 1 1   | 4,320  | 1 05  | 4,000  | 0 98  | 3,650  | 0 95  | 3,230  | 0 85  | 2,800  | 0 78  |
| 510    | 4000             | 1 28             | 4,960   | 1 35  |  |       | 4,630  | 1 25  | 4,350  | 1 15  | 4,050  | 1 15  | 3,680  | 1 05  | 3,300  | 0 98  |
| 535    | 4200             | 1 41             | 5,230   | 1 60  |  |       | 4,920  | 1 50  | 4,690  | 1 40  | 4,430  | 1 35  | 4,090  | 1 25  | 3,740  | 1 20  |
| 560    | 4400             | 1 54             | 5,500   | 1 85  |  |       | 5,200  | 1 70  | 5,000  | 1 65  | 4,790  | 1 55  | 4,450  | 1 50  | 4,120  | 1 45  |
| 585    | 4600             | 1 69             | 5,750   | 2 10  |  |       | 5,490  | 2 00  | 5,330  | 1 9   | 5,130  | 1 85  | 4,820  | 1 75  | 4,550  | 1 70  |
| 611    | 4800             | 1 84             | 5,990   | 2 40  |  |       | 5,750  | 2 25  | 5,600  | 2 2   | 5,400  | 2 10  | 5,170  | 2 00  | 4,910  | 1 95  |
| 636    | 5000             | 2 00             | 6,270   | 2 70  |  |       |  |       | 5,890  | 2 5   | 5,710  | 2 45  | 5,520  | 2 35  | 5,260  | 2 25  |
| 669    | 5250             | 2 20             | 6,590   | 3 15  |  |       |  |       | 6,250  | 2 9   | 6,090  | 2 85  | 5,920  | 2 80  | 5,700  | 2 65  |
| 700    | 5500             | 2 42             | 6,910   | 3 65  |  |       |  |       | 6,590  | 3 4   |  |       | 6,290  | 3 25  | 6,100  | 3 15  |
| 732    | 5750             | 2 51             | 7,210   | 3 95  |  |       |  |       |  |       |  |       | 6,770  | 3 70  | 6,450  | 3 50  |
| 765    | 6000             | 2 87             | 7,560   | 4 7   |  |       |  |       |  |       |  |       | 7,050  | 4 30  | 6,910  | 4 25  |
| 795    | 6250             | 3 12             | 7,860   | 5 3   |  |       |  |       |  |       |  |       | 7,400  | 4 95  | 7,200  | 4 8   |
| 823    | 6500             | 3 38             | 8,210   | 6 0   |  |       |  |       |  |       |  |       | 7,760  | 5 7   | 7,630  | 5 5   |
| 860    | 6750             | 3 63             | 8,520   | 6 7   |  |       |  |       |  |       |  |       |  |       | 7,990  | 6 2   |
| 891    | 7000             | 3 91             | 8,800   | 7 5   |  |       |  |       |  |       |  |       |  |       | 8,350  | 7     |

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 ozs. per sq. inch | Static Pressure 1 1/4" Water .723 ozs. per sq. inch | Static Pressure 1 1/2" Water .878 ozs. per sq. inch | Static Pressure 1 3/4" Water 1.01 ozs. per sq. inch | Static Pressure 2" Water 1.16 ozs. per sq. inch | Static Pressure 2 1/4" Water 1.30 ozs. per sq. inch | Static Pressure 2 1/2" Water 1.45 ozs. per sq. inch |
|--------|------------------|------------------|---|---|---|---|---|---|---|
| 458    | 3600             | 1 03             | 1,810   | 0 52  |   |   |   |   |   |
| 484    | 3800             | 1 15             | 2,350   | 0 69  |   |   |   |   |   |
| 510    | 4000             | 1 28             | 2,870   | 0 91  | 1,970   | 0 78  |   |   |   |
| 535    | 4200             | 1 41             | 3,330   | 1 10  | 2,510   | 0 91  |   |   |   |
| 560    | 4400             | 1 54             | 3,770   | 1 35  | 2,990   | 1 15  | 2,180   | 0 91  |   |
| 585    | 4600             | 1 69             | 4,230   | 1 55  | 3,490   | 1 45  | 2,730   | 1 20  |   |
| 611    | 4800             | 1 84             | 4,600   | 1 90  | 3,970   | 1 70  | 3,260   | 1 50  | 2,490   |
| 636    | 5000             | 2 00             | 5,000   | 2 20  | 4,410   | 2 00  | 3,750   | 1 85  | 3,040   |
| 669    | 5250             | 2 25             | 5,440   | 2 55  | 4,930   | 2 40  | 4,340   | 2 20  | 3,670   |
| 700    | 5500             | 2 42             | 5,890   | 3 05  | 5,430   | 2 90  | 4,870   | 2 70  | 4,260   |
| 732    | 5750             | 2 51             | 6,240   | 3 4   | 5,800   | 3 25  | 5,370   | 3 05  | 4,870   |
| 765    | 6000             | 2 87             | 6,710   | 4 1   | 6,320   | 3 85  | 5,860   | 3 70  | 5,380   |
| 795    | 6250             | 3 12             | 7,110   | 4 8   | 6,770   | 4 5   | 6,340   | 4 30  | 5,900   |
| 823    | 6500             | 3 38             | 7,500   | 5 4   | 7,170   | 5 2   | 6,790   | 4 95  | 6,410   |
| 860    | 6750             | 3 63             | 7,870   | 6 1   | 7,600   | 5 9   | 7,240   | 5 6   | 6,850   |
| 891    | 7000             | 3 91             | 8,210   | 6 9   | 7,950   | 6 5   | 7,630   | 6 4   | 7,300   |
| 955    | 7500             | 4 50             | 8,940   | 8 8   | 8,740   | 8 5   | 8,480   | 8 1   | 8,150   |
| 1019   | 8000             | 5 11             |   | 9,450   | 10 5  | 9,250   | 10 0  | 9,000   | 9 8   |
| 1081   | 8500             | 5 76             |   | 10,200  | 12 5  | 9,980   | 12 5  | 9,710   | 12 0  |
| 1147   | 9000             | 6 46             |   | 10,900  | 15  | 10,700  | 14 5  | 10,500  | 14 5  |
| 1210   | 9500             | 7 20             |   |   |   | 11,400  | 17 5  | 11,200  | 17 5  |
| 1273   | 10000            | 7 98             |   |   |   | 12,100  | 21  | 11,900  | 20  |

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 2 3/4" Water 1.59 ozs. per sq. inch | Static Pressure 3" Water 1.73 ozs. per sq. inch | Static Pressure 3 1/2" Water 2.02 ozs. per sq. inch | Static Pressure 4" Water 2.31 ozs. per sq. inch | Static Pressure 4 1/2" Water 2.69 ozs. per sq. inch | Static Pressure 5" Water 3.07 ozs. per sq. inch | Static Pressure 5 1/2" Water 3.47 ozs. per sq. inch |
|--------|------------------|------------------|---|---|---|---|---|---|---|
| 795    | 6250             | 3 12             | 3,770   | 3 05  |   |   |   |   |   |
| 823    | 6500             | 3 38             | 4,420   | 3 75  | 3,860   | 3 40  |   |   |   |
| 860    | 6750             | 3 63             | 5,010   | 4 4   | 4,500   | 4 10  |   |   |   |
| 891    | 7000             | 3 91             | 5,610   | 5 2   | 5,160   | 4 95  | 4,110   | 4 25  |   |
| 955    | 7500             | 4 50             | 6,740   | 6 9   | 6,300   | 6 5   | 5,380   | 5 9   | 4,450   |
| 1019   | 8000             | 5 11             | 7,750   | 8 8   | 7,360   | 8 5   | 6,590   | 7 8   | 5,720   |
| 1081   | 8500             | 5 76             | 8,710   | 11 0  | 8,350   | 10 5  | 7,630   | 10 0  | 6,850   |
| 1147   | 9000             | 6 46             | 9,600   | 13 5  | 9,250   | 13 0  | 8,670   | 12 5  | 7,950   |
| 1210   | 9500             | 7 20             | 10,400  | 16  | 10,200  | 15 5  | 9,650   | 15 0  | 9,000   |
| 1273   | 10000            | 7 98             | 11,300  | 19  | 11,000  | 19  | 10,500  | 18 5  | 9,980   |

Single Inlet

## 55" Steel Plate Fan—Design 1

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M. H. P. Static Pressure 1/2" Water .072 oza. per sq. inch | Volume C.F.M. H. P. Static Pressure 3/4" Water .145 oza. per sq. inch | Volume C.F.M. H. P. Static Pressure 1" Water .217 oza. per sq. inch | Volume C.F.M. H. P. Static Pressure 1 1/4" Water .289 oza. per sq. inch | Volume C.F.M. H. P. Static Pressure 1 1/2" Water .361 oza. per sq. inch | Volume C.F.M. H. P. Static Pressure 1 3/4" Water .434 oza. per sq. inch | Volume C.F.M. H. P. Static Pressure 2" Water .506 oza. per sq. inch |
|--------|------------------|------------------|---|---|---|---|---|---|---|
| 162    | 1400             | 0 157            | 1,180 0 016   |   |   |   |   |   |   |
| 185    | 1600             | 0 205            | 1,730 0 083   |   |   |   |   |   |   |
| 208    | 1800             | 0 259            | 2,200 0 125   | 1,090 0 078   |   |   |   |   |   |
| 232    | 2000             | 0 320            | 2,630 0 175   | 1,730 0 125   |   |   |   |   |   |
| 255    | 2200             | 0 387            | 3,020 0 250   | 2,300 0 205   | 1,330 0 140   |   |   |   |   |
| 278    | 2400             | 0 460            | 3,380 0 330   | 2,780 0 285   | 1,970 0 230   |   |   |   |   |
| 301    | 2600             | 0 540            | 3,720 0 425   | 3,230 0 38  | 2,540 0 325   | 1,730 0 275   |   |   |   |
| 324    | 2800             | 0 625            | 4,060 0 54  | 3,670 0 49  | 3,060 0 435   | 2,360 0 365   |   |   |   |
| 347    | 3000             | 0 718            | 4,390 0 68  | 4,060 0 62  | 3,550 0 56  | 2,930 0 495   | 2,240 0 415   |   |   |
| 371    | 3200             | 0 816            | 4,700 0 83  | 4,440 0 77  | 3,990 0 70  | 3,460 0 64  | 2,840 0 57  | 2,150 0 465   |   |
| 394    | 3400             | 0 922            | 5,010 0 98  | 4,800 0 94  | 4,430 0 87  | 3,960 0 83  | 3,400 0 72  | 2,730 0 63  | 2,130 0 54  |
| 416    | 3600             | 1 03             | 5,350 1 20  | 5,100 1 15  | 4,810 1 05  | 4,400 0 98  | 3,920 0 91  | 3,330 0 83  | 2,800 0 74  |
| 440    | 3800             | 1 15             | 5,680 1 40  | 5,480 1 35  | 5,220 1 25  | 4,820 1 20  | 4,400 1 15  | 3,900 1 00  | 3,390 0 94  |
| 463    | 4000             | 1 28             | 6,000 1 65  |   | 5,590 1 55  | 5,250 1 40  | 4,880 1 40  | 4,450 1 25  | 3,980 1 20  |
| 486    | 4200             | 1 41             | 6,310 1 95  |   | 5,950 1 80  | 5,650 1 70  | 5,350 1 60  | 4,930 1 55  | 4,500 1 45  |
| 510    | 4400             | 1 54             | 6,640 2 20  |   | 6,260 2 05  | 6,040 1 95  | 5,770 1 90  | 5,380 1 80  | 4,970 1 75  |
| 532    | 4600             | 1 69             | 6,950 2 50  |   | 6,620 2 4   | 6,440 2 30  | 6,190 2 25  | 5,810 2 10  | 5,490 2 05  |
| 555    | 4800             | 1 84             | 7,230 2 85  |   | 6,950 2 7   | 6,770 2 65  | 6,520 2 55  | 6,240 2 45  | 5,920 2 35  |
| 579    | 5000             | 2 00             | 7,560 3 25  |   |   | 7,110 3 05  | 6,900 2 95  | 6,650 2 85  | 6,350 2 7   |
| 607    | 5250             | 2 20             | 7,950 3 8   |   |   | 7,550 3 55  | 7,350 3 45  | 7,150 3 35  | 6,870 3 2   |
| 636    | 5500             | 2 42             | 8,350 4 4   |   |   | 7,950 4 15  | 7,800 4 00  | 7,580 3 95  | 7,360 3 8   |
| 665    | 5750             | 2 54             | 8,700 4 8   |   |   |   | 8,170 4 45  | 8,010 4 35  | 7,790 4 2   |
| 695    | 6000             | 2 87             | 9,130 5 7   |   |   |   | 8,680 5 3   | 8,500 5 2   | 8,350 5 1   |
| 723    | 6250             | 3 12             | 9,490 6 4   |   |   |   |   | 8,930 5 9   | 8,680 5 8   |
| 753    | 6500             | 3 38             | 9,900 7 2   |   |   |   |   | 9,360 6 8   | 9,200 6 6   |
| 781    | 6750             | 3 63             | 10,300 8 1  |   |   |   |   |   | 9,430 7 5   |
| 810    | 7000             | 3 91             | 10,600 9 1  |   |   |   |   |   | 10,100 8 3  |
| 869    | 7500             | 4 50             | 11,400 11   |   |   |   |   |   |   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1 1/2" Water .578 oza. per sq. inch                   | Static Pressure 1 3/4" Water .723 oza. per sq. inch                   | Static Pressure 2" Water .878 oza. per sq. inch                     | Static Pressure 2 1/4" Water 1.01 oza. per sq. inch                     | Static Pressure 2 1/2" Water 1.16 oza. per sq. inch                     | Static Pressure 2 3/4" Water 1.30 oza. per sq. inch                     | Static Pressure 3" Water 1.45 oza. per sq. inch                     |
| 416    | 3600             | 1 03             | 2,180 0 62  |   |   |   |   |   |   |
| 440    | 3800             | 1 15             | 2,830 0 83  |   |   |   |   |   |   |
| 463    | 4000             | 1 28             | 3,460 1 10  | 2,380 0 94  |   |   |   |   |   |
| 486    | 4200             | 1 41             | 4,010 1 35  | 3,030 1 10  |   |   |   |   |   |
| 510    | 4400             | 1 54             | 4,550 1 60  | 3,610 1 40  | 2,630 1 10  |   |   |   |   |
| 532    | 4600             | 1 69             | 5,100 1 90  | 4,210 1 75  | 3,300 1 45  |   |   |   |   |
| 555    | 4800             | 1 84             | 5,550 2 30  | 4,790 2 05  | 3,940 1 80  | 3,010 1 50  |   |   |   |
| 579    | 5000             | 2 00             | 6,040 2 65  | 5,320 2 40  | 4,530 2 20  | 3,670 1 90  |   |   |   |
| 607    | 5250             | 2 20             | 6,560 3 10  | 5,950 2 90  | 5,240 2 70  | 4,330 2 40  | 3,620 2 10  |   |   |
| 636    | 5500             | 2 42             | 7,100 3 65  | 6,550 3 50  | 5,800 3 25  | 5,150 3 00  | 4,420 2 70  | 3,640 2 40  |   |
| 665    | 5750             | 2 54             | 7,520 4 10  | 6,780 3 90  | 6,490 3 7   | 5,880 3 50  | 5,170 3 25  | 4,450 2 85  |   |
| 695    | 6000             | 2 87             | 8,100 4 95  | 7,640 4 65  | 7,090 4 5   | 6,500 4 25  | 5,850 3 95  | 5,180 3 65  | 4,450 3 3   |
| 723    | 6250             | 3 12             | 8,500 5 8   | 8,160 5 4   | 7,650 5 2   | 7,130 4 95  | 6,600 4 65  | 5,900 4 4   | 5,230 4 1   |
| 753    | 6500             | 3 38             | 9,050 6 5   | 8,650 6 2   | 8,190 6 0   | 7,740 5 7   | 7,210 5 4   | 6,600 5 2   | 5,990 4 9   |
| 781    | 6750             | 3 63             | 9,500 7 4   | 9,160 7 1   | 8,740 6 8   | 8,260 6 5   | 7,800 6 3   | 7,250 6 0   | 6,700 5 7   |
| 810    | 7000             | 3 91             | 9,910 8 3   | 9,600 7 9   | 9,210 7 7   | 8,810 7 4   | 8,350 7 2   | 7,890 6 9   | 7,320 6 5   |
| 869    | 7500             | 4 50             | 10,800 10 5   | 10,500 10 0   | 10,200 9 8  | 9,840 9 4   | 9,520 9 1   | 9,050 8 9   | 8,580 8 7   |
| 925    | 8000             | 5 11             |   | 11,400 12 5   | 11,200 12 0   | 10,900 12 0   | 10,500 11 5   | 10,100 11 0   | 9,750 11 0  |
| 984    | 8500             | 5 76             |   | 12,300 15   | 12,100 15 0   | 11,700 14 5   | 11,500 14 0   | 11,200 13 5   | 10,900 13 5   |
| 1040   | 9000             | 6 46             |   | 13,100 18   | 12,900 17 5   | 12,700 17 5   | 12,400 17 0   | 12,200 17   | 11,900 16 0   |
| 1100   | 9500             | 7 20             |   |   | 13,800 21   | 13,500 21 0   | 13,300 20 5   | 13,100 20   | 12,900 19 5   |
| 1158   | 10000            | 7 98             |   |   | 14,600 25   | 14,400 24 5   | 14,300 24 5   | 14,000 24   | 13,800 23 5   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 3 1/2" Water 1.59 oza. per sq. inch                   | Static Pressure 4" Water 1.73 oza. per sq. inch                       | Static Pressure 4 1/2" Water 2.02 oza. per sq. inch                 | Static Pressure 5" Water 2.31 oza. per sq. inch                         | Static Pressure 5 1/2" Water 2.89 oza. per sq. inch                     | Static Pressure 6" Water 3.47 oza. per sq. inch                         | Static Pressure 7" Water 4.05 oza. per sq. inch                     |
| 723    | 6250             | 3 12             | 4,350 3 55  |   |   |   |   |   |   |
| 753    | 6500             | 3 38             | 5,090 4 3   | 4,660 4 10  |   |   |   |   |   |
| 781    | 6750             | 3 63             | 5,760 5 0   | 5,430 4 95  |   |   |   |   |   |
| 810    | 7000             | 3 91             | 6,460 6 0   | 6,210 6 0   | 4,970 5 1   |   |   |   |   |
| 869    | 7500             | 4 50             | 7,750 7 9   | 7,610 7 9   | 6,500 7 2   | 5,380 6 3   |   |   |   |
| 925    | 8000             | 5 11             | 8,920 10 5  | 8,900 10 0  | 7,950 9 4   | 6,900 8 7   | 4,720 6 8   |   |   |
| 984    | 8500             | 5 76             | 10,500 13 0   | 10,100 12 5   | 9,210 12  | 8,260 11 5  | 6,320 9 4   |   |   |
| 1040   | 9000             | 6 46             | 11,600 16 0   | 11,200 15 5   | 10,500 15   | 9,600 14 0  | 7,850 12 0  | 5,970 10 6  |   |
| 1100   | 9500             | 7 20             | 12,600 19 5   | 12,300 19   | 11,700 18   | 10,900 17 5   | 9,290 16 0  | 7,550 14 0  | 5,700 11 5  |
| 1158   | 10000            | 7 98             | 13,600 23   | 13,300 23   | 12,700 22   | 12,000 21   | 10,600 19 5   | 9,050 17 5  | 7,310 15  |

Single Inlet

## 60" Steel Plate Fan—Design 1

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M. H. P. Static Pressure 1/2" Water .0722 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 3/4" Water .145 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1" Water .217 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1 1/4" Water .289 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1 1/2" Water .361 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1 3/4" Water .434 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 2" Water .506 ozs. per sq. inch |
|--------|------------------|------------------|--|---|---|---|---|---|---|
| 148    | 1400             | 0 157            | 1,500 0 058  |   |   |   |   |   |   |
| 170    | 1600             | 0 205            | 2,200 0 105  |   |   |   |   |   |   |
| 191    | 1800             | 0 259            | 2,800 0 160  | 1,390 0 090   |   |   |   |   |   |
| 212    | 2000             | 0 320            | 3,340 0 225  | 2,200 0 16  |   |   |   |   |   |
| 233    | 2200             | 0 387            | 3,840 0 315  | 2,920 0 26  | 1,690 0 18  |   |   |   |   |
| 254    | 2400             | 0 460            | 4,290 0 42   | 3,530 0 36  | 2,500 0 29  |   |   |   |   |
| 276    | 2600             | 0 540            | 4,730 0 54   | 4,100 0 48  | 3,220 0 41  |   |   |   |   |
| 297    | 2800             | 0 626            | 5,160 0 69   | 4,660 0 62  | 3,890 0 55  | 2,200 0 350   |   |   |   |
| 318    | 3000             | 0 718            | 5,580 0 86   | 5,160 0 79  | 4,510 0 71  | 3,720 0 63  | 2,840 0 53  |   |   |
| 339    | 3200             | 0 816            | 5,980 1 05   | 5,640 0 98  | 5,070 0 89  | 4,400 0 81  | 3,600 0 72  | 2,730 0 59  |   |
| 360    | 3400             | 0 922            | 6,400 1 25   | 6,090 1 20  | 5,630 1 10  | 5,040 1 05  | 4,310 0 92  | 3,470 0 80  | 2,710 0 68  |
| 382    | 3600             | 1 03             | 6,800 1 55   | 6,490 1 45  | 6,110 1 35  | 5,600 1 25  | 4,900 1 15  | 4,230 1 05  | 3,550 0 94  |
| 403    | 3800             | 1 15             | 7,210 1 80   | 6,960 1 7   | 6,630 1 60  | 6,130 1 50  | 5,600 1 45  | 4,950 1 30  | 4,300 1 20  |
| 425    | 4000             | 1 28             | 7,610 2 10   |   | 7,100 1 95  | 6,680 1 80  | 6,200 1 75  | 5,650 1 60  | 5,050 1 50  |
| 445    | 4200             | 1 41             | 8,020 2 45   |   | 7,550 2 30  | 7,190 2 15  | 6,800 2 05  | 6,260 1 95  | 5,730 1 85  |
| 466    | 4400             | 1 54             | 8,430 2 80   |   | 7,960 2 60  | 7,670 2 50  | 7,340 2 40  | 6,840 2 30  | 6,310 2 20  |
| 488    | 4600             | 1 69             | 8,820 3 20   |   | 8,410 3 05  | 8,180 2 95  | 7,860 2 85  | 7,380 2 70  | 6,980 2 60  |
| 509    | 4800             | 1 84             | 9,190 3 65   |   | 8,820 3 45  | 8,600 3 35  | 8,290 3 25  | 7,930 3 10  | 7,530 3 00  |
| 530    | 5000             | 2 00             | 9,610 4 15   |   |   | 9,030 3 85  | 8,760 3 75  | 8,460 3 60  | 8,060 3 45  |
| 556    | 5250             | 2 20             | 10,100 4 8   |   |   | 9,590 4 50  | 9,330 4 35  | 9,080 4 25  | 8,730 4 10  |
| 581    | 5500             | 2 42             | 10,600 5 6   |   |   | 10,100 5 25   | 9,920 5 1   | 9,640 5 0   | 9,360 4 85  |
| 610    | 5750             | 2 54             | 11,100 6 1   |   |   |   | 10,100 5 6  | 9,900 5 5   | 9,600 5 3   |
| 636    | 6000             | 2 87             | 11,600 7 2   |   |   |   | 10,900 6 7  | 10,800 6 6  | 10,600 6 5  |
| 662    | 6250             | 3 12             | 12,100 8 2   |   |   |   |   | 11,300 7 6  | 11,000 7 4  |
| 690    | 6500             | 3 38             | 12,600 9 2   |   |   |   |   | 11,900 8 7  | 11,700 8 4  |
| 715    | 6750             | 3 63             | 13,100 10 5  |   |   |   |   |   | 12,200 9 4  |
| 742    | 7000             | 3 91             | 13,500 11 5  |   |   |   |   |   | 12,800 10 5   |
| 795    | 7500             | 4 50             | 14,500 14  |   |   |   |   |   |   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .278 ozs. per sq. inch                        | Static Pressure 1 1/4" Water .723 ozs. per sq. inch                   | Static Pressure 1 1/2" Water .878 ozs. per sq. inch                 | Static Pressure 1 3/4" Water 1.01 ozs. per sq. inch                     | Static Pressure 2" Water 1.16 ozs. per sq. inch                         | Static Pressure 2 1/4" Water 1.30 ozs. per sq. inch                     | Static Pressure 2 1/2" Water 1.45 ozs. per sq. inch                 |
| 382    | 3600             | 1 03             | 2,770 0 79   |   |   |   |   |   |   |
| 403    | 3800             | 1 15             | 3,000 1 05   |   |   |   |   |   |   |
| 425    | 4000             | 1 28             | 4,400 1 40   | 3,020 1 20  |   |   |   |   |   |
| 445    | 4200             | 1 41             | 5,100 1 70   | 3,850 1 40  |   |   |   |   |   |
| 466    | 4400             | 1 54             | 5,780 2 05   | 4,500 1 75  | 3,340 1 40  |   |   |   |   |
| 488    | 4600             | 1 69             | 6,490 2 40   | 5,350 2 20  | 4,190 1 85  |   |   |   |   |
| 509    | 4800             | 1 84             | 7,060 2 90   | 6,090 2 60  | 5,000 2 30  | 3,820 1 90  |   |   |   |
| 530    | 5000             | 2 00             | 7,670 3 35   | 6,760 3 05  | 5,750 2 80  | 4,600 2 40  |   |   |   |
| 556    | 5250             | 2 20             | 8,330 3 95   | 7,560 3 70  | 6,650 3 40  | 5,630 3 05  | 4,600 2 65  |   |   |
| 581    | 5500             | 2 42             | 9,020 4 65   | 8,330 4 45  | 7,470 4 15  | 6,540 3 80  | 5,610 3 40  | 4,620 3 00  |   |
| 610    | 5750             | 2 54             | 9,560 5 2  | 8,900 4 95  | 8,240 4 7   | 7,460 4 45  | 6,570 4 15  | 5,270 3 65  |   |
| 636    | 6000             | 2 87             | 10,300 6 3   | 9,700 5 9   | 9,000 5 7   | 8,250 5 4   | 7,430 5 0   | 6,580 4 65  | 5,000 4 2   |
| 662    | 6250             | 3 12             | 10,900 7 4   | 10,400 6 9  | 9,720 6 6   | 9,050 6 3   | 8,380 5 9   | 7,500 5 6   | 6,650 5 2   |
| 690    | 6500             | 3 38             | 11,500 8 3   | 11,000 7 9  | 10,400 7 6  | 9,840 7 3   | 9,160 6 8   | 8,380 6 6   | 7,610 6 2   |
| 715    | 6750             | 3 63             | 12,100 9 4   | 11,600 9  | 11,100 8 6  | 10,500 8 3  | 9,900 8 0   | 9,200 7 6   | 8,510 7 2   |
| 742    | 7000             | 3 91             | 12,600 10 5  | 12,200 10   | 11,700 9 8  | 11,200 9 4  | 10,600 9 1  | 10,000 8 8  | 9,300 8 3   |
| 795    | 7500             | 4 50             | 13,700 13 5  | 13,400 13   | 13,000 12 5   | 12,500 12 0   | 12,100 11 5   | 11,500 11 5   | 10,900 11 0   |
| 848    | 8000             | 5 11             |  | 14,500 16   | 14,200 15 5   | 13,800 15 0   | 13,400 14 5   | 12,900 14 0   | 12,400 14 0   |
| 900    | 8500             | 5 76             |  | 15,600 19   | 15,300 19 0   | 14,900 18 5   | 14,600 18 0   | 14,200 17 5   | 13,800 17 0   |
| 954    | 9000             | 6 46             |  | 16,600 23   | 16,400 22 5   | 16,100 22   | 15,800 21 5   | 15,500 21 5   | 15,100 20 5   |
| 1010   | 9500             | 7 20             |  |   | 17,500 27   | 17,200 27   | 16,900 26   | 16,600 26   | 16,400 25   |
| 1060   | 10000            | 7 98             |  |   | 18,600 32   | 18,300 31   | 18,100 31   | 17,800 30   | 17,500 30   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 2 1/2" Water 1.59 ozs. per sq. inch                    | Static Pressure 3" Water 1.73 ozs. per sq. inch                       | Static Pressure 3 1/2" Water 2.02 ozs. per sq. inch                 | Static Pressure 4" Water 2.31 ozs. per sq. inch                         | Static Pressure 5" Water 2.89 ozs. per sq. inch                         | Static Pressure 6" Water 3.47 ozs. per sq. inch                         | Static Pressure 7" Water 4.05 ozs. per sq. inch                     |
| 662    | 6250             | 3 12             | 5,780 4 7  |   |   |   |   |   |   |
| 690    | 6500             | 3 38             | 6,700 5 7  | 5,920 5 2   |   |   |   |   |   |
| 715    | 6750             | 3 63             | 7,660 6 7  | 6,900 6 3   |   |   |   |   |   |
| 742    | 7000             | 3 91             | 8,600 7 9  | 7,920 7 6   | 6,310 6 5   |   |   |   |   |
| 795    | 7500             | 4 50             | 10,300 10 5  | 9,670 10  | 8,250 9 1   | 6,830 8 0   |   |   |   |
| 848    | 8000             | 5 11             | 11,900 13 5  | 11,300 13   | 10,100 12 0   | 8,770 11 0  | 6,000 8 6   |   |   |
| 900    | 8500             | 5 76             | 13,400 16 5  | 12,800 16   | 11,700 15 5   | 10,500 14 5   | 8,040 12 0  |   |   |
| 954    | 9000             | 6 46             | 14,700 20 5  | 14,200 20   | 13,300 19   | 12,200 18   | 9,980 15 5  | 7,590 13 0  |   |
| 1010   | 9500             | 7 20             | 16,000 24 5  | 15,600 24   | 14,800 23   | 13,800 22   | 11,800 20 0   | 9,590 17 5  | 7,240 14 5  |
| 1060   | 10000            | 7 98             | 17,300 29  | 16,900 29   | 16,100 28   | 15,300 27   | 13,500 24 5   | 11,500 22   | 9,300 19  |

Single Inlet

## 70" Steel Plate Fan—Design 1

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| WATER PUMP CAPACITY MAINTAINED RESISTANCE |                  |                  |  |   |   |   |   |   |   |       |   |       |   |       |   |       |
|---|------------------|------------------|--|---|---|---|---|---|---|-------|---|-------|---|-------|---|-------|
| R.P.M.                                    | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.<br>1" Water<br>.0722 ozs. per sq. inch | H. P.   | Volume C.F.M.<br>1 1/2" Water<br>.145 ozs. per sq. inch | H. P.   | Volume C.F.M.<br>2" Water<br>.217 ozs. per sq. inch | H. P.   | Volume C.F.M.<br>2 1/2" Water<br>.289 ozs. per sq. inch | H. P. | Volume C.F.M.<br>3" Water<br>.361 ozs. per sq. inch | H. P. | Volume C.F.M.<br>3 1/2" Water<br>.434 ozs. per sq. inch | H. P. | Volume C.F.M.<br>4" Water<br>.506 ozs. per sq. inch | H. P. |
| 127                                       | 1100             | 0 157            | 1,920  | 0 075   |   |   |   |   |   |       |   |       |   |       |   |       |
| 145                                       | 1600             | 0 205            | 2,820  | 0 130   |   |   |   |   |   |       |   |       |   |       |   |       |
| 164                                       | 1800             | 0 259            | 3,600  | 0 200   | 1,780   | 0 125   |   |   |   |       |   |       |   |       |   |       |
| 182                                       | 2000             | 0 320            | 4,290  | 0 290   | 2,820   | 0 210   |   |   |   |       |   |       |   |       |   |       |
| 200                                       | 2200             | 0 387            | 4,930  | 0 405   | 3,740   | 0 335   | 2,170   | 0 23  |   |       |   |       |   |       |   |       |
| 218                                       | 2400             | 0 460            | 5,500  | 0 54  | 4,530   | 0 46  | 3,210   | 0 37  |   |       |   |       |   |       |   |       |
| 236                                       | 2600             | 0 510            | 6,060  | 0 70  | 5,260   | 0 61  | 4,140   | 0 53  | 2,820   | 0 45  |   |       |   |       |   |       |
| 254                                       | 2800             | 0 626            | 6,620  | 0 89  | 5,980   | 0 80  | 5,000   | 0 71  | 3,840   | 0 60  |   |       |   |       |   |       |
| 272                                       | 3000             | 0 718            | 7,160  | 1 10  | 6,620   | 1 00  | 5,790   | 0 91  | 4,760   | 0 80  |   |       |   |       |   |       |
| 291                                       | 3200             | 0 816            | 7,670  | 1 35  | 7,240   | 1 25  | 6,500   | 1 15  | 5,650   | 1 05  | 3,650   | 0 68  |   |       |   |       |
| 309                                       | 3400             | 0 922            | 8,220  | 1 65  | 7,810   | 1 55  | 7,230   | 1 40  | 6,460   | 1 30  | 5,510   | 1 20  | 3,500   | 0 76  |   |       |
| 327                                       | 3600             | 1 03             | 8,750  | 1 95  | 8,320   | 1 85  | 7,850   | 1 75  | 7,190   | 1 60  | 6,400   | 1 50  | 5,430   | 1 35  | 3,480   | 0 87  |
| 346                                       | 3800             | 1 15             | 9,260  | 2 30  | 8,940   | 2 2   | 8,500   | 2 10  | 7,860   | 1 95  | 7,190   | 1 85  | 6,360   | 1 70  | 5,520   | 1 55  |
| 364                                       | 4000             | 1 28             | 9,780  | 2 70  |   |   | 9,120   | 2 50  | 8,580   | 2 35  | 7,960   | 2 20  | 7,250   | 2 10  | 6,480   | 1 95  |
| 382                                       | 4200             | 1 41             | 10,300   | 3 15  |   |   | 9,700   | 2 90  | 9,230   | 2 80  | 8,720   | 2 65  | 8,010   | 2 50  | 7,350   | 2 35  |
| 400                                       | 4400             | 1 54             | 10,800   | 3 6   |   |   | 10,200  | 3 35  | 9,850   | 3 25  | 9,400   | 3 10  | 8,780   | 2 95  | 8,100   | 2 80  |
| 418                                       | 4600             | 1 69             | 11,300   | 4 1   |   |   | 10,800  | 3 90  | 10,500  | 3 85  | 10,100  | 3 65  | 9,480   | 3 45  | 8,950   | 3 30  |
| 436                                       | 4800             | 1 84             | 11,800   | 4 7   |   |   | 11,300  | 4 45  | 11,000  | 4 3   | 10,600  | 4 2   | 10,200  | 4 0   | 9,660   | 3 85  |
| 455                                       | 5000             | 2 00             | 12,300   | 5 3   |   |   |   |   | 11,600  | 5 0   | 11,300  | 4 8   | 10,900  | 4 6   | 10,400  | 4 45  |
| 477                                       | 5250             | 2 20             | 13,000   | 6 2   |   |   |   |   | 12,300  | 5 8   | 12,000  | 5 6   | 11,700  | 5 5   | 11,200  | 5 3   |
| 500                                       | 5500             | 2 42             | 13,600   | 7 1   |   |   |   |   | 13,000  | 6 7   | 12,700  | 6 6   | 12,400  | 6 4   | 12,000  | 6 2   |
| 523                                       | 5750             | 2 54             | 14,200   | 7 8   |   |   |   |   |   |       | 13,300  | 7 2   | 13,100  | 7 1   | 12,700  | 6 9   |
| 545                                       | 6000             | 2 87             | 14,900   | 9 3   |   |   |   |   |   |       | 14,000  | 8 6   | 13,900  | 8 5   | 13,600  | 8 3   |
| 569                                       | 6250             | 3 12             | 15,500   | 10 5  |   |   |   |   |   |       |   |       | 14,600  | 9 7   | 14,200  | 9 5   |
| 590                                       | 6500             | 3 38             | 16,100   | 12 0  |   |   |   |   |   |       |   |       | 15,300  | 11    | 15,000  | 11 0  |
| 614                                       | 6750             | 3 63             | 16,800   | 13 5  |   |   |   |   |   |       |   |       |   |       | 15,700  | 12 0  |
| 636                                       | 7000             | 3 91             | 17,400   | 14 5  |   |   |   |   |   |       |   |       |   |       | 16,400  | 13 5  |
| 682                                       | 7500             | 4 50             | 18,600   | 18  |   |   |   |   |   |       |   |       |   |       |   |       |
| R.P.M.                                    | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 ozs. per sq. inch      | Static Pressure 1 1/2" Water .723 ozs. per sq. inch | Static Pressure 2" Water .878 ozs. per sq. inch         | Static Pressure 2 1/2" Water 1.01 ozs. per sq. inch | Static Pressure 3" Water 1.16 ozs. per sq. inch     | Static Pressure 3 1/2" Water 1.30 ozs. per sq. inch | Static Pressure 4" Water 1.45 ozs. per sq. inch         |       |   |       |   |       |   |       |
| 327                                       | 3600             | 1 03             | 3,560  | 1 00  |   |   |   |   |   |       |   |       |   |       |   |       |
| 346                                       | 3800             | 1 15             | 4,610  | 1 35  |   |   |   |   |   |       |   |       |   |       |   |       |
| 364                                       | 4000             | 1 28             | 5,650  | 1 75  | 3,880   | 1 50  |   |   |   |       |   |       |   |       |   |       |
| 382                                       | 4200             | 1 41             | 6,500  | 2 20  | 4,910   | 1 80  |   |   |   |       |   |       |   |       |   |       |
| 400                                       | 4400             | 1 54             | 7,420  | 2 65  | 5,900   | 2 25  | 4,200   | 1 85  |   |       |   |       |   |       |   |       |
| 418                                       | 4600             | 1 69             | 8,320  | 3 1   | 6,800   | 2 80  | 5,380   | 2 35  |   |       |   |       |   |       |   |       |
| 436                                       | 4800             | 1 84             | 9,070  | 3 7   | 7,810   | 3 35  | 6,430   | 2 95  | 4,900   | 2 40  |   |       |   |       |   |       |
| 455                                       | 5000             | 2 00             | 9,850  | 4 3   | 8,890   | 3 95  | 7,390   | 3 55  | 5,990   | 3 10  |   |       |   |       |   |       |
| 477                                       | 5250             | 2 20             | 10,700   | 5 1   | 9,700   | 4 75  | 8,550   | 4 4   | 7,220   | 3 95  |   |       |   |       |   |       |
| 500                                       | 5500             | 2 42             | 11,600   | 6 0   | 10,700  | 5 7   | 9,590   | 5 3   | 8,400   | 4 85  |   |       |   |       |   |       |
| 523                                       | 5750             | 2 54             | 12,500   | 6 7   | 11,400  | 6 4   | 10,600  | 6 0   | 9,600   | 5 7   |   |       |   |       |   |       |
| 545                                       | 6000             | 2 87             | 13,200   | 8 1   | 12,500  | 7 6   | 11,600  | 7 3   | 10,600  | 6 9   |   |       |   |       |   |       |
| 569                                       | 6250             | 3 12             | 14,000   | 9 4   | 13,300  | 8 9   | 12,500  | 8 5   | 11,600  | 8 1   |   |       |   |       |   |       |
| 590                                       | 6500             | 3 38             | 14,800   | 10 5  | 14,200  | 10 0  | 13,300  | 9 7   | 12,600  | 9 4   |   |       |   |       |   |       |
| 614                                       | 6750             | 3 63             | 15,500   | 12 0  | 14,900  | 11 5  | 14,200  | 11 0  | 13,500  | 10 5  |   |       |   |       |   |       |
| 636                                       | 7000             | 3 91             | 16,200   | 13 5  | 15,700  | 13 0  | 15,100  | 12 5  | 14,400  | 12 0  |   |       |   |       |   |       |
| 682                                       | 7500             | 4 50             | 17,600   | 17 5  | 17,200  | 16 5  | 16,600  | 16  | 16,100  | 15 5  |   |       |   |       |   |       |
| 726                                       | 8000             | 5 11             |  |   | 18,600  | 20 5  | 18,200  | 20  | 17,700  | 19 5  |   |       |   |       |   |       |
| 773                                       | 8500             | 5 76             |  |   | 20,000  | 24 5  | 19,700  | 24  | 19,100  | 23 5  |   |       |   |       |   |       |
| 819                                       | 9000             | 6 46             |  |   | 21,400  | 30  | 21,000  | 29  | 20,700  | 29    |   |       |   |       |   |       |
| 864                                       | 9500             | 7 20             |  |   |   |   | 22,400  | 35  | 22,100  | 34    |   |       |   |       |   |       |
| 910                                       | 10000            | 7 98             |  |   |   |   | 23,900  | 41  | 23,500  | 40    |   |       |   |       |   |       |
| R.P.M.                                    | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 2 1/2" Water 1.59 ozs. per sq. inch  | Static Pressure 3" Water 1.73 ozs. per sq. inch     | Static Pressure 3 1/2" Water 2.02 ozs. per sq. inch     | Static Pressure 4" Water 2.31 ozs. per sq. inch     | Static Pressure 5" Water 2.89 ozs. per sq. inch     | Static Pressure 6" Water 3.47 ozs. per sq. inch     | Static Pressure 7" Water 4.05 ozs. per sq. inch         |       |   |       |   |       |   |       |
| 500                                       | 6250             | 3 12             | 7,420  | 6 0   |   |   |   |   |   |       |   |       |   |       |   |       |
| 590                                       | 6500             | 3 38             | 8,890  | 7 3   | 7,000   | 6 7   |   |   |   |       |   |       |   |       |   |       |
| 614                                       | 6750             | 3 63             | 9,840  | 8 6   | 8,860   | 8 1   |   |   |   |       |   |       |   |       |   |       |
| 636                                       | 7000             | 3 91             | 11,000   | 10 0  | 10,200  | 9 7   | 8,100   | 8 3   |   |       |   |       |   |       |   |       |
| 682                                       | 7500             | 4 50             | 13,300   | 13 5  | 12,400  | 13 0  | 10,600  | 11 5  | 8,760   | 10 5  |   |       |   |       |   |       |
| 726                                       | 8000             | 5 11             | 15,300   | 17 5  | 14,500  | 16 5  | 13,000  | 15 5  | 11,300  | 14 0  |   |       |   |       |   |       |
| 773                                       | 8500             | 5 76             | 17,200   | 21 5  | 16,500  | 20 5  | 15,100  | 19 5  | 13,500  | 18 5  |   |       |   |       |   |       |
| 819                                       | 9000             | 6 46             | 18,900   | 26  | 18,200  | 25  | 17,100  | 24 5  | 15,700  | 23    |   |       |   |       |   |       |
| 864                                       | 9500             | 7 20             | 20,500   | 32  | 20,000  | 31  | 19,000  | 30  | 17,700  | 28    |   |       |   |       |   |       |
| 910                                       | 10000            | 7 98             | 22,100   | 38  | 21,700  | 37  | 20,700  | 35  | 19,700  | 34    |   |       |   |       |   |       |
| R.P.M.                                    | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 5" Water 2.89 ozs. per sq. inch      | Static Pressure 6" Water 3.47 ozs. per sq. inch     | Static Pressure 7" Water 4.05 ozs. per sq. inch         |   |   |   |   |       |   |       |   |       |   |       |
| 500                                       | 6250             | 3 12             |  |   |   |   |   |   |   |       |   |       |   |       |   |       |
| 590                                       | 6500             | 3 38             |  |   |   |   |   |   |   |       |   |       |   |       |   |       |
| 614                                       | 6750             | 3 63             |  |   |   |   |   |   |   |       |   |       |   |       |   |       |
| 636                                       | 7000             | 3 91             |  |   |   |   |   |   |   |       |   |       |   |       |   |       |
| 682                                       | 7500             | 4 50             |  |   |   |   |   |   |   |       |   |       |   |       |   |       |
| 726                                       | 8000             | 5 11             |  |   |   |   |   |   |   |       |   |       |   |       |   |       |
| 773                                       | 8500             | 5 76             |  |   |   |   |   |   |   |       |   |       |   |       |   |       |
| 819                                       | 9000             | 6 46             |  |   |   |   |   |   |   |       |   |       |   |       |   |       |
| 864                                       | 9500             | 7 20             |  |   |   |   |   |   |   |       |   |       |   |       |   |       |
| 910                                       | 10000            | 7 98             |  |   |   |   |   |   |   |       |   |       |   |       |   |       |

Single Inlet

## 80" Steel Plate Fan—Design 1

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M. H. P. Static Pressure 1" Water .0722 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1 1/2" Water .145 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 2" Water .217 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 2 1/2" Water .289 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 3" Water .361 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 3 1/2" Water .434 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 4" Water .506 ozs. per sq. inch |
|--------|------------------|------------------|--|---|---|---|---|---|---|
| 111    | 1400             | 0.157            | 2,600 0.100  |   |   |   |   |   |   |
| 127    | 1600             | 0.205            | 3,820 0.180  |   |   |   |   |   |   |
| 143    | 1800             | 0.259            | 4,870 0.275  | 2,420 0.175   |   |   |   |   |   |
| 159    | 2000             | 0.320            | 5,800 0.395  | 3,820 0.28  |   |   |   |   |   |
| 175    | 2200             | 0.387            | 6,690 0.55   | 5,070 0.45  | 2,930 0.315   |   |   |   |   |
| 191    | 2400             | 0.460            | 7,450 0.73   | 6,140 0.62  | 4,350 0.50  |   |   |   |   |
| 206    | 2600             | 0.540            | 8,210 0.95   | 7,130 0.83  | 5,600 0.71  | 3,820 0.61  |   |   |   |
| 222    | 2800             | 0.626            | 8,960 1.20   | 8,100 1.10  | 6,760 0.96  | 5,200 0.81  |   |   |   |
| 238    | 3000             | 0.718            | 9,700 1.50   | 8,960 1.35  | 7,840 1.25  | 6,450 1.10  | 4,940 0.92  |   |   |
| 255    | 3200             | 0.816            | 10,400 1.85  | 9,800 1.7   | 8,800 1.55  | 7,650 1.40  | 6,250 1.25  | 4,750 1.05  |   |
| 271    | 3400             | 0.922            | 11,100 2.20  | 10,600 2.1  | 9,770 1.95  | 8,750 1.80  | 7,500 1.60  | 6,030 1.40  | 4,710 1.20  |
| 286    | 3600             | 1.03             | 11,800 2.65  | 11,300 2.5  | 10,600 2.35   | 9,730 2.20  | 8,670 2.05  | 7,350 1.80  | 6,170 1.65  |
| 302    | 3800             | 1.15             | 12,500 3.15  | 12,100 3  | 11,500 2.80   | 10,700 2.60   | 9,720 2.50  | 8,620 2.30  | 7,470 2.1   |
| 318    | 4000             | 1.28             | 13,200 3.65  | 13,200 3.35   | 12,300 3.35   | 11,600 3.15   | 10,800 3.00   | 9,830 2.80  | 8,770 2.6   |
| 334    | 4200             | 1.41             | 14,000 4.25  | 13,100 3.95   | 13,100 3.95   | 12,500 3.75   | 11,800 3.60   | 10,900 3.40   | 9,950 3.2   |
| 350    | 4400             | 1.54             | 14,700 4.85  | 13,800 4.55   | 13,800 4.55   | 13,300 4.4  | 12,700 4.20   | 11,900 4.0  | 11,000 3.8  |
| 366    | 4600             | 1.69             | 15,300 5.5   |   | 14,600 5.3  | 14,200 5.2  | 13,700 4.95   | 12,800 4.7  | 12,100 4.5  |
| 382    | 4800             | 1.84             | 16,000 6.4   |   | 15,300 6  | 15,000 5.8  | 14,400 5.7  | 13,800 5.4  | 13,100 5.2  |
| 398    | 5000             | 2.00             | 16,700 7.2   |   |   | 15,700 6.7  | 15,200 6.5  | 14,700 6.2  | 14,000 6.0  |
| 417    | 5250             | 2.20             | 17,500 8.4   |   |   | 16,700 7.8  | 16,200 7.6  | 15,800 7.4  | 15,200 7.1  |
| 437    | 5500             | 2.42             | 18,400 9.7   |   |   | 17,600 9.1  | 17,300 8.9  | 16,800 8.7  | 16,300 8.4  |
| 457    | 5750             | 2.54             | 19,200 10.5  |   |   |   | 18,000 9.8  | 17,700 9.6  | 17,200 9.3  |
| 477    | 6000             | 2.87             | 20,200 12.5  |   |   |   | 18,900 11.5   | 18,800 11.5   | 18,400 11.0   |
| 497    | 6250             | 3.12             | 20,900 14  |   |   |   |   | 19,700 13   | 19,200 13.0   |
| 516    | 6500             | 3.38             | 21,800 16  |   |   |   |   | 20,700 15   | 20,300 14.5   |
| 536    | 6750             | 3.63             | 22,700 18  |   |   |   |   |   | 21,300 16.5   |
| 556    | 7000             | 3.91             | 23,500 20  |   |   |   |   |   | 22,200 18.5   |
| 596    | 7500             | 4.50             | 25,200 25  |   |   |   |   |   |   |
| 286    | 3600             | 1.03             | 4,810 1.40   |   |   |   |   |   |   |
| 302    | 3800             | 1.15             | 6,250 1.85   |   |   |   |   |   |   |
| 318    | 4000             | 1.28             | 7,650 2.40   | 5,250 2.05  |   |   |   |   |   |
| 334    | 4200             | 1.41             | 8,870 2.95   | 6,600 2.45  |   |   |   |   |   |
| 350    | 4400             | 1.54             | 10,100 3.55  | 7,980 3.05  | 5,800 2.50  |   |   |   |   |
| 366    | 4600             | 1.69             | 11,300 4.2   | 9,300 3.8   | 7,280 3.20  |   |   |   |   |
| 382    | 4800             | 1.84             | 12,300 5.0   | 10,600 4.5  | 8,700 4.00  | 6,630 3.25  |   |   |   |
| 398    | 5000             | 2.00             | 13,300 5.8   | 11,800 5.3  | 10,000 4.85   | 8,100 4.2   |   |   |   |
| 417    | 5250             | 2.20             | 14,500 6.8   | 13,100 6.4  | 11,600 5.9  | 9,780 5.3   | 7,980 4.65  |   |   |
| 437    | 5500             | 2.42             | 15,700 8.1   | 14,500 7.7  | 13,000 7.2  | 11,400 6.6  | 9,750 5.9   | 8,050 5.2   |   |
| 457    | 5750             | 2.54             | 16,600 9.0   | 15,500 8.6  | 14,300 8.2  | 13,000 7.7  | 11,400 7.2  | 9,170 6.3   |   |
| 477    | 6000             | 2.87             | 17,900 11.0  | 16,900 10.5   | 15,700 9.9  | 14,300 9.3  | 12,900 8.7  | 11,400 8.1  | 9,850 7.3   |
| 497    | 6250             | 3.12             | 19,000 13.0  | 18,000 12.0   | 16,900 11.5   | 15,700 11.0   | 14,600 10.5   | 13,000 9.7  | 11,600 9.0  |
| 516    | 6500             | 3.38             | 20,000 14.5  | 19,200 14.0   | 18,000 13.0   | 17,100 12.5   | 15,900 12.0   | 14,600 11.5   | 13,200 10.5   |
| 536    | 6750             | 3.63             | 21,000 16.5  | 20,200 15.5   | 19,300 15.0   | 18,300 14.5   | 17,200 14.0   | 16,000 13.0   | 14,800 12.5   |
| 556    | 7000             | 3.91             | 22,000 18.5  | 21,300 17.5   | 20,400 17.0   | 19,500 16.5   | 18,500 16.0   | 17,400 15.0   | 16,200 14.5   |
| 596    | 7500             | 4.50             | 23,800 23  | 23,300 22.5   | 22,500 21.5   | 21,800 21   | 21,000 20.5   | 20,000 19.5   | 19,000 19   |
| 636    | 8000             | 5.11             |  | 25,200 28   | 24,600 27   | 23,900 26   | 23,200 25   | 22,400 24.5   | 21,600 24   |
| 676    | 8500             | 5.76             |  | 27,100 33   | 26,600 33   | 25,900 32   | 25,400 31   | 24,700 30   | 23,900 30   |
| 716    | 9000             | 6.46             |  | 28,900 40   | 28,400 39   | 28,000 39   | 27,400 38   | 26,900 37   | 26,200 36   |
| 756    | 9500             | 7.20             |  |   | 30,400 47   | 29,900 46   | 29,400 45   | 28,900 44   | 28,400 44   |
| 796    | 10000            | 7.98             |  |   | 32,400 56   | 31,800 54   | 31,400 54   | 30,900 52   | 30,500 52   |
| 497    | 6250             | 3.12             | 10,100 8.2   |   |   |   |   |   |   |
| 516    | 6500             | 3.38             | 11,800 10.0  | 10,300 9.1  |   |   |   |   |   |
| 536    | 6750             | 3.63             | 13,300 11.5  | 12,000 11.0   |   |   |   |   |   |
| 556    | 7000             | 3.91             | 15,000 13.8  | 13,800 13.0   | 11,000 11   |   |   |   |   |
| 596    | 7500             | 4.50             | 17,900 18.5  | 16,800 17.5   | 14,300 16   | 11,900 14   |   |   |   |
| 636    | 8000             | 5.11             | 20,600 23.5  | 19,700 22.5   | 17,500 21   | 15,200 19   | 10,400 15   |   |   |
| 676    | 8500             | 5.76             | 23,200 29  | 22,300 28   | 20,400 27   | 18,300 25   | 14,000 21   |   |   |
| 716    | 9000             | 6.46             | 25,600 35  | 24,700 34   | 23,100 33   | 21,300 31   | 17,400 27   | 13,200 23   |   |
| 756    | 9500             | 7.20             | 27,800 43  | 27,100 42   | 25,700 40   | 24,000 38   | 20,500 35   | 16,700 30   | 12,600 25   |
| 796    | 10000            | 7.98             | 30,000 50  | 29,300 50   | 28,000 48   | 26,700 46   | 23,500 43   | 20,000 38   | 16,200 33   |

| Single Inlet   |                  | 90" Steel Plate Fan—Design 1 |   |   |  |   |  |   |  |   |  | Single Width  |  |   |  |   |
|--|------------------|------------------------------|---|---|--|---|--|---|--|---|--|---|--|---|--|---|
| When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances |                  |                              |   |   |  |   |  |   |  |   |  |   |  |   |  |   |
| R.P.M.   | Tip Speed F.P.M. | S.N.D. in inches             | Volume C.F.M.<br>Static Pressure<br>1/2" Water<br>.0722 ozs. per sq. inch | H. P.   | Volume C.F.M.<br>Static Pressure<br>3/4" Water<br>.145 ozs. per sq. inch | H. P.   | Volume C.F.M.<br>Static Pressure<br>1" Water<br>.217 ozs. per sq. inch | H. P.   | Volume C.F.M.<br>Static Pressure<br>1 1/4" Water<br>.289 ozs. per sq. inch | H. P.   | Volume C.F.M.<br>Static Pressure<br>1 1/2" Water<br>.361 ozs. per sq. inch | H. P.   | Volume C.F.M.<br>Static Pressure<br>1 3/4" Water<br>.434 ozs. per sq. inch | H. P.   | Volume C.F.M.<br>Static Pressure<br>2" Water<br>.508 ozs. per sq. inch | H. P.   |
| 99   | 1400             | 0 157                        | 3,240   | 0.125   |  |   |  |   |  |   |  |   |  |   |  |   |
| 113  | 1600             | 0 205                        | 4,750   | 0.22  |  |   |  |   |  |   |  |   |  |   |  |   |
| 128  | 1800             | 0 259                        | 6,050   | 0.34  | 3,000  | 0.215   |  |   |  |   |  |   |  |   |  |   |
| 142  | 2000             | 0 320                        | 7,200   | 0.49  | 4,750  | 0.35  |  |   |  |   |  |   |  |   |  |   |
| 156  | 2200             | 0 387                        | 8,300   | 0.69  | 6,300  | 0.56  | 3,650  | 0.39  |  |   |  |   |  |   |  |   |
| 170  | 2400             | 0 460                        | 9,250   | 0.91  | 7,630  | 0.78  | 5,400  | 0.62  |  |   |  |   |  |   |  |   |
| 184  | 2600             | 0 540                        | 10,200  | 1.20  | 8,860  | 1.05  | 6,960  | 0.88  | 4,750  | 0.76  |  |   |  |   |  |   |
| 198  | 2800             | 0 626                        | 11,100  | 1.50  | 10,100   | 1.35  | 8,400  | 1.20  | 6,460  | 1.00  |  |   |  |   |  |   |
| 212  | 3000             | 0 718                        | 12,100  | 1.85  | 11,100   | 1.7   | 9,750  | 1.55  | 8,020  | 1.35  | 6,130  | 1.15  |  |   |  |   |
| 226  | 3200             | 0 816                        | 12,900  | 2.25  | 12,200   | 2.1   | 11,000   | 1.95  | 9,500  | 1.75  | 7,780  | 1.55  | 5,900  | 1.30  |  |   |
| 240  | 3400             | 0 922                        | 13,800  | 2.75  | 13,200   | 2.6   | 12,200   | 2.4   | 10,900   | 2.20  | 9,310  | 2.00  | 7,490  | 1.70  | 5,850  | 1.45  |
| 255  | 3600             | 1 03                         | 14,700  | 3.30  | 14,000   | 3.1   | 13,200   | 2.9   | 12,100   | 2.70  | 10,800   | 2.55  | 9,130  | 2.25  | 7,670  | 2.00  |
| 269  | 3800             | 1 15                         | 15,600  | 3.90  | 15,000   | 3.7   | 14,300   | 3.5   | 13,200   | 3.25  | 12,100   | 3.10  | 10,700   | 2.85  | 9,280  | 2.60  |
| 284  | 4000             | 1 28                         | 16,400  | 4.55  |  |   | 15,300   | 4.2   | 14,100   | 3.90  | 13,400   | 3.75  | 12,200   | 3.50  | 10,900   | 3.25  |
| 297  | 4200             | 1 41                         | 17,300  | 5.3   |  |   | 16,300   | 4.9   | 15,500   | 4.65  | 14,700   | 4.45  | 13,500   | 4.25  | 12,400   | 3.95  |
| 311  | 4400             | 1 54                         | 18,200  | 6.0   |  |   | 17,200   | 5.7   | 16,600   | 5.5   | 15,800   | 5.2   | 14,800   | 4.95  | 13,600   | 4.7   |
| 325  | 4600             | 1 69                         | 19,100  | 6.9   |  |   | 18,200   | 6.6   | 17,700   | 6.4   | 17,000   | 6.1   | 16,000   | 5.8   | 15,100   | 5.6   |
| 339  | 4800             | 1 84                         | 19,900  | 7.9   |  |   | 19,100   | 7.5   | 18,600   | 7.2   | 17,900   | 7.0   | 17,100   | 6.7   | 16,300   | 6.5   |
| 354  | 5000             | 2 00                         | 20,800  | 8.9   |  |   |  |   | 19,500   | 8.4   | 18,900   | 8.1   | 18,300   | 7.8   | 17,400   | 7.5   |
| 372  | 5250             | 2 20                         | 21,800  | 10.5  |  |   |  |   | 20,700   | 9.7   | 20,200   | 9.4   | 19,600   | 9.2   | 18,900   | 8.8   |
| 390  | 5500             | 2 42                         | 22,800  | 12.0  |  |   |  |   | 21,300   | 11.5  | 21,100   | 11.0  | 20,800   | 11.0  | 20,200   | 10.5  |
| 407  | 5750             | 2 54                         | 23,900  | 13.0  |  |   |  |   |  |   | 21,100   | 12.0  | 22,000   | 12.0  | 21,400   | 11.5  |
| 425  | 6000             | 2 87                         | 25,000  | 15.5  |  |   |  |   |  |   | 23,500   | 14.5  | 23,300   | 14.5  | 22,800   | 14.0  |
| 442  | 6250             | 3 12                         | 26,000  | 17.5  |  |   |  |   |  |   |  |   | 24,500   | 16.5  | 23,800   | 16.0  |
| 460  | 6500             | 3 38                         | 27,100  | 20.0  |  |   |  |   |  |   |  |   | 25,700   | 18.5  | 25,300   | 18.0  |
| 477  | 6750             | 3 63                         | 28,200  | 22.5  |  |   |  |   |  |   |  |   |  |   | 26,500   | 20.5  |
| 495  | 7000             | 3 91                         | 29,200  | 24.5  |  |   |  |   |  |   |  |   |  |   | 27,600   | 23  |
| 532  | 7500             | 4 50                         | 31,400  | 31  |  |   |  |   |  |   |  |   |  |   |  |   |
| R.P.M.   | Tip Speed F.P.M. | S.N.D. in inches             | Static Pressure<br>1" Water<br>.217 ozs. per sq. inch                     | Static Pressure<br>1 1/4" Water<br>.289 ozs. per sq. inch | Static Pressure<br>1 1/2" Water<br>.361 ozs. per sq. inch                | Static Pressure<br>1 3/4" Water<br>.434 ozs. per sq. inch | Static Pressure<br>2" Water<br>.508 ozs. per sq. inch                  | Static Pressure<br>2 1/2" Water<br>.581 ozs. per sq. inch | Static Pressure<br>3" Water<br>.654 ozs. per sq. inch                      | Static Pressure<br>3 1/2" Water<br>.727 ozs. per sq. inch | Static Pressure<br>4" Water<br>.800 ozs. per sq. inch                      | Static Pressure<br>4 1/2" Water<br>.873 ozs. per sq. inch | Static Pressure<br>5" Water<br>.946 ozs. per sq. inch                      | Static Pressure<br>5 1/2" Water<br>.1.019 ozs. per sq. inch | Static Pressure<br>6" Water<br>.1.092 ozs. per sq. inch                | Static Pressure<br>6 1/2" Water<br>.1.165 ozs. per sq. inch |
| 255  | 3600             | 1 03                         | 5,980   | 1.70  |  |   |  |   |  |   |  |   |  |   |  |   |
| 269  | 3800             | 1 15                         | 7,760   | 2.30  |  |   |  |   |  |   |  |   |  |   |  |   |
| 284  | 4000             | 1 28                         | 9,500   | 3.00  | 6,530  | 2.55  |  |   |  |   |  |   |  |   |  |   |
| 297  | 4200             | 1 41                         | 11,000  | 3.65  | 8,310  | 3.05  |  |   |  |   |  |   |  |   |  |   |
| 311  | 4400             | 1 54                         | 12,500  | 4.4   | 9,910  | 3.8   | 7,200  | 3.1   |  |   |  |   |  |   |  |   |
| 325  | 4600             | 1 69                         | 14,000  | 5.2   | 11,600   | 4.7   | 9,050  | 4.0   |  |   |  |   |  |   |  |   |
| 339  | 4800             | 1 84                         | 15,300  | 6.2   | 13,200   | 5.6   | 10,800   | 5.0   | 8,240  | 4.05  |  |   |  |   |  |   |
| 354  | 5000             | 2 00                         | 16,600  | 7.2   | 14,600   | 6.6   | 12,400   | 6.0   | 10,100   | 5.2   |  |   |  |   |  |   |
| 372  | 5250             | 2 20                         | 18,000  | 8.5   | 16,300   | 8.0   | 14,400   | 7.4   | 12,200   | 6.6   | 9,920  | 5.8   |  |   |  |   |
| 390  | 5500             | 2 42                         | 19,500  | 10.0  | 18,000   | 9.6   | 16,100   | 8.9   | 14,100   | 8.2   | 12,100   | 7.4   | 9,980  | 6.5   |  |   |
| 407  | 5750             | 2 54                         | 20,700  | 11.0  | 19,200   | 10.5  | 17,800   | 10.0  | 16,100   | 9.6   | 14,200   | 8.9   | 11,400   | 7.8   |  |   |
| 425  | 6000             | 2 87                         | 22,300  | 13.5  | 21,000   | 13.0  | 19,500   | 12.0  | 17,800   | 11.5  | 16,000   | 11.0  | 14,200   | 10.0  | 12,200   | 9.1   |
| 442  | 6250             | 3 12                         | 23,600  | 16  | 22,400   | 15.0  | 21,000   | 14.5  | 19,600   | 13.5  | 18,100   | 13.0  | 16,200   | 12.0  | 14,400   | 11.0  |
| 460  | 6500             | 3 38                         | 24,800  | 18  | 23,800   | 17.0  | 22,400   | 16.5  | 21,300   | 16.0  | 19,800   | 14.5  | 18,100   | 14.0  | 16,400   | 13.5  |
| 477  | 6750             | 3 63                         | 26,100  | 20  | 25,200   | 19.5  | 23,900   | 18.5  | 22,700   | 18.0  | 21,400   | 17.5  | 19,800   | 16.5  | 18,400   | 15.5  |
| 495  | 7000             | 3 91                         | 27,300  | 23  | 26,400   | 22  | 25,400   | 21  | 24,200   | 20.5  | 23,000   | 19.5  | 21,600   | 19.0  | 20,100   | 18.0  |
| 532  | 7500             | 4 50                         | 29,600  | 29  | 28,900   | 28  | 28,000   | 27  | 27,100   | 26  | 26,000   | 25  | 24,800   | 24.5  | 23,600   | 23.5  |
| 566  | 8000             | 5 11                         | 31,300  | 34  | 31,300   | 34  | 30,600   | 33  | 29,800   | 32  | 28,800   | 31  | 27,800   | 30  | 26,800   | 30  |
| 601  | 8500             | 5 76                         | 33,700  | 41  | 33,700   | 41  | 33,100   | 41  | 32,100   | 40  | 31,500   | 39  | 30,600   | 38  | 29,700   | 37  |
| 636  | 9000             | 6 46                         | 36,000  | 50  | 36,000   | 50  | 35,300   | 49  | 34,800   | 48  | 34,100   | 47  | 33,400   | 46  | 32,500   | 45  |
| 672  | 9500             | 7 20                         |   |   |  |   | 37,800   | 58  | 37,100   | 58  | 36,600   | 56  | 35,900   | 56  | 35,300   | 54  |
| 708  | 10000            | 7 98                         |   |   |  |   | 40,100   | 68  | 39,600   | 66  | 39,000   | 66  | 38,400   | 66  | 37,800   | 64  |
| R.P.M.   | Tip Speed F.P.M. | S.N.D. in inches             | Static Pressure<br>2 1/2" Water<br>.946 ozs. per sq. inch                 | Static Pressure<br>3" Water<br>.1.019 ozs. per sq. inch   | Static Pressure<br>3 1/2" Water<br>.1.092 ozs. per sq. inch              | Static Pressure<br>4" Water<br>.1.165 ozs. per sq. inch   | Static Pressure<br>4 1/2" Water<br>.1.238 ozs. per sq. inch            | Static Pressure<br>5" Water<br>.1.311 ozs. per sq. inch   | Static Pressure<br>5 1/2" Water<br>.1.384 ozs. per sq. inch                | Static Pressure<br>6" Water<br>.1.457 ozs. per sq. inch   | Static Pressure<br>6 1/2" Water<br>.1.530 ozs. per sq. inch                | Static Pressure<br>7" Water<br>.1.603 ozs. per sq. inch   | Static Pressure<br>7 1/2" Water<br>.1.676 ozs. per sq. inch                | Static Pressure<br>8" Water<br>.1.749 ozs. per sq. inch     | Static Pressure<br>8 1/2" Water<br>.1.822 ozs. per sq. inch            | Static Pressure<br>9" Water<br>.1.895 ozs. per sq. inch     |
| 442  | 6250             | 3 12                         | 12,500  | 10.0  |  |   |  |   |  |   |  |   |  |   |  |   |
| 460  | 6500             | 3 38                         | 14,600  | 12.5  | 12,800   | 11.5  |  |   |  |   |  |   |  |   |  |   |
| 477  | 6750             | 3 63                         | 16,600  | 14.5  | 14,900   | 13.5  |  |   |  |   |  |   |  |   |  |   |
| 495  | 7000             | 3 91                         | 18,600  | 17  | 17,100   | 16.5  | 13,600   | 14.0  |  |   |  |   |  |   |  |   |
| 532  | 7500             | 4 50                         | 22,300  | 23  | 20,900   | 22  | 17,800   | 19.5  | 14,700   | 17.5  |  |   |  |   |  |   |
| 566  | 8000             | 5 11                         | 25,700  | 29  | 24,400   | 28  | 21,800   | 26  | 18,900   | 24  | 13,000   | 18.5  |  |   |  |   |
| 601  | 8500             | 5 76                         | 28,900  | 36  | 27,700   | 35  | 25,400   | 33  | 22,800   | 31  | 17,400   | 26  |  |   |  |   |
| 636  | 9000             | 6 46                         | 31,800  | 44  | 30,700   | 43  | 28,700   | 41  | 26,400   | 39  | 21,600   | 34  | 16,400   | 29  |  |   |
| 672  | 9500             | 7 20                         | 34,500  | 51  | 33,600   | 52  | 31,900   | 50  | 29,800   | 47  | 25,400   | 43  | 20,700   | 38  | 15,600   | 31  |
| 708  | 10000            | 7 98                         | 37,300  | 64  | 36,500   | 62  | 34,800   | 60  | 33,100   | 58  | 29,200   | 54  | 24,800   | 48  | 20,100   | 42  |

Single Inlet

## 100" Steel Plate Fan—Design 1

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. |
|--------|------------------|------------------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|
|        |                  |                  | Static Pressure 1/2" Water .0722 ozs. per sq. inch  |       | Static Pressure 1/2" Water .145 ozs. per sq. inch   |       | Static Pressure 3/4" Water .217 ozs. per sq. inch   |       | Static Pressure 1" Water .289 ozs. per sq. inch     |       | Static Pressure 1 1/4" Water .361 ozs. per sq. inch |       | Static Pressure 1 1/2" Water .434 ozs. per sq. inch |       | Static Pressure 1 3/4" Water .506 ozs. per sq. inch |       |
| 89     | 1400             | 0.157            | 3,920   | 0.155 |   |       |   |       |   |       |   |       |   |       |   |       |
| 102    | 1600             | 0.205            | 5,760   | 0.270 |   |       |   |       |   |       |   |       |   |       |   |       |
| 114    | 1800             | 0.259            | 7,340   | 0.415 | 3,640   | 0.260 |   |       |   |       |   |       |   |       |   |       |
| 127    | 2000             | 0.320            | 8,750   | 0.600 | 5,760   | 0.425 |   |       |   |       |   |       |   |       |   |       |
| 140    | 2200             | 0.387            | 10,100  | 0.83  | 7,640   | 0.68  | 4,420   | 0.475 |   |       |   |       |   |       |   |       |
| 153    | 2400             | 0.460            | 11,200  | 1.10  | 9,250   | 0.94  | 6,550   | 0.75  |   |       |   |       |   |       |   |       |
| 165    | 2600             | 0.540            | 12,400  | 1.45  | 10,800  | 1.25  | 8,450   | 1.05  | 5,760   | 0.92  |   |       |   |       |   |       |
| 178    | 2800             | 0.626            | 13,500  | 1.80  | 12,200  | 1.65  | 10,200  | 1.45  | 7,850   | 1.20  |   |       |   |       |   |       |
| 191    | 3000             | 0.718            | 14,600  | 2.25  | 13,500  | 2.05  | 11,800  | 1.85  | 9,730   | 1.65  | 7,440   | 1.40  |   |       |   |       |
| 204    | 3200             | 0.816            | 15,700  | 2.75  | 14,800  | 2.55  | 13,300  | 2.35  | 11,500  | 2.15  | 9,430   | 1.90  | 7,150   | 1.55  |   |       |
| 217    | 3400             | 0.922            | 16,800  | 3.30  | 16,000  | 3.15  | 14,800  | 2.90  | 13,200  | 2.70  | 11,300  | 2.40  | 9,090   | 2.10  | 7,100   | 1.80  |
| 229    | 3600             | 1.03             | 17,800  | 4.05  | 17,000  | 3.75  | 16,000  | 3.50  | 14,700  | 3.30  | 13,100  | 3.05  | 11,100  | 2.75  | 9,300   | 2.45  |
| 242    | 3800             | 1.15             | 18,900  | 4.75  | 18,300  | 4.5   | 17,400  | 4.25  | 16,100  | 3.95  | 14,700  | 3.75  | 13,000  | 3.45  | 11,300  | 3.15  |
| 254    | 4000             | 1.28             | 19,900  | 5.5   |   |       | 18,600  | 5.1   | 17,500  | 4.75  | 16,300  | 4.5   | 14,800  | 4.25  | 13,200  | 3.95  |
| 268    | 4200             | 1.41             | 21,000  | 6.4   |   |       | 19,800  | 6.0   | 18,800  | 5.7   | 17,800  | 5.4   | 16,400  | 5.1   | 15,000  | 4.8   |
| 280    | 4400             | 1.54             | 22,100  | 7.3   |   |       | 20,900  | 6.9   | 20,100  | 6.6   | 19,200  | 6.3   | 17,900  | 6.0   | 16,500  | 5.7   |
| 293    | 4600             | 1.69             | 23,100  | 8.3   |   |       | 22,100  | 8.0   | 21,400  | 7.8   | 20,600  | 7.4   | 19,400  | 7.1   | 18,300  | 6.8   |
| 306    | 4800             | 1.84             | 24,100  | 9.6   |   |       | 23,100  | 9.1   | 22,500  | 8.8   | 21,700  | 8.5   | 20,800  | 8.2   | 19,700  | 7.8   |
| 318    | 5000             | 2.00             | 25,200  | 11.0  |   |       |   |       | 23,600  | 10.0  | 23,000  | 9.8   | 22,200  | 9.4   | 21,100  | 9.0   |
| 334    | 5250             | 2.20             | 26,400  | 12.5  |   |       |   |       | 25,100  | 12.0  | 24,100  | 11.5  | 23,800  | 11.0  | 22,800  | 10.5  |
| 350    | 5500             | 2.42             | 27,800  | 14.5  |   |       |   |       | 26,500  | 13.5  | 26,000  | 13.5  | 25,300  | 13.0  | 24,500  | 12.5  |
| 366    | 5750             | 2.51             | 29,000  | 16.0  |   |       |   |       |   |       | 27,200  | 15.0  | 26,600  | 14.5  | 25,900  | 14.0  |
| 382    | 6000             | 2.87             | 30,400  | 19.0  |   |       |   |       |   |       | 28,500  | 17.5  | 28,300  | 17.5  | 27,700  | 17.0  |
| 398    | 6250             | 3.12             | 31,600  | 21.5  |   |       |   |       |   |       |   |       | 29,700  | 20.0  | 28,900  | 19.5  |
| 411    | 6500             | 3.38             | 32,900  | 24    |   |       |   |       |   |       |   |       | 31,200  | 22.5  | 30,600  | 22    |
| 430    | 6750             | 3.63             | 34,200  | 27    |   |       |   |       |   |       |   |       |   |       | 32,000  | 25    |
| 446    | 7000             | 3.91             | 35,500  | 30    |   |       |   |       |   |       |   |       |   |       | 33,500  | 28    |
| 477    | 7500             | 4.50             | 38,000  | 37    |   |       |   |       |   |       |   |       |   |       |   |       |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 ozs. per sq. inch     |       | Static Pressure 1 1/4" Water .723 ozs. per sq. inch |       | Static Pressure 1 1/2" Water .878 ozs. per sq. inch |       | Static Pressure 1 3/4" Water 1.01 ozs. per sq. inch |       | Static Pressure 2" Water 1.16 ozs. per sq. inch     |       | Static Pressure 2 1/4" Water 1.30 ozs. per sq. inch |       | Static Pressure 2 1/2" Water 1.45 ozs. per sq. inch |       |
| 229    | 3600             | 1.03             | 7,250   | 2.10  |   |       |   |       |   |       |   |       |   |       |   |       |
| 242    | 3800             | 1.15             | 9,420   | 2.80  |   |       |   |       |   |       |   |       |   |       |   |       |
| 254    | 4000             | 1.28             | 11,500  | 3.60  | 7,910   | 3.10  |   |       |   |       |   |       |   |       |   |       |
| 268    | 4200             | 1.41             | 13,400  | 4.45  | 10,100  | 3.70  |   |       |   |       |   |       |   |       |   |       |
| 280    | 4400             | 1.54             | 15,100  | 5.4   | 12,000  | 4.65  | 8,740   | 3.75  |   |       |   |       |   |       |   |       |
| 293    | 4600             | 1.69             | 17,000  | 6.3   | 14,000  | 5.7   | 11,000  | 4.85  |   |       |   |       |   |       |   |       |
| 306    | 4800             | 1.84             | 18,500  | 7.5   | 16,000  | 6.8   | 13,100  | 6.0   | 10,000  | 4.95  |   |       |   |       |   |       |
| 318    | 5000             | 2.00             | 20,100  | 8.8   | 17,700  | 8.1   | 15,100  | 7.3   | 12,200  | 6.3   |   |       |   |       |   |       |
| 334    | 5250             | 2.20             | 21,800  | 10.5  | 19,800  | 9.7   | 17,400  | 9.0   | 14,700  | 8.0   | 12,000  | 7.0   |   |       |   |       |
| 350    | 5500             | 2.42             | 23,600  | 12.0  | 21,800  | 11.5  | 19,600  | 11.0  | 17,100  | 9.9   | 14,700  | 9.0   | 12,100  | 7.9   |   |       |
| 366    | 5750             | 2.51             | 25,000  | 13.5  | 23,300  | 13.0  | 21,600  | 12.5  | 19,600  | 11.5  | 17,200  | 11.0  | 13,800  | 9.5   |   |       |
| 382    | 6000             | 2.87             | 27,000  | 16.5  | 25,400  | 15.5  | 23,600  | 15.0  | 21,600  | 14.0  | 19,500  | 13.0  | 17,200  | 12.0  | 14,800  | 11.0  |
| 398    | 6250             | 3.12             | 28,600  | 19.5  | 27,200  | 18    | 25,500  | 17.5  | 23,700  | 16.5  | 21,900  | 15.5  | 19,600  | 14.5  | 17,400  | 13.5  |
| 411    | 6500             | 3.38             | 30,100  | 22.0  | 28,900  | 21    | 27,200  | 20.5  | 25,800  | 19.0  | 24,000  | 18    | 21,900  | 17    | 19,900  | 16    |
| 430    | 6750             | 3.63             | 31,600  | 24.5  | 30,500  | 24    | 29,000  | 22.5  | 27,600  | 22.0  | 25,900  | 21    | 24,100  | 20    | 22,300  | 19    |
| 446    | 7000             | 3.91             | 33,100  | 28    | 32,000  | 27    | 30,800  | 26    | 29,300  | 24.5  | 27,900  | 24    | 26,200  | 23    | 24,400  | 22    |
| 477    | 7500             | 4.50             | 35,900  | 35    | 35,100  | 34    | 34,000  | 33    | 32,800  | 31    | 31,600  | 31    | 30,100  | 30    | 28,700  | 29    |
| 510    | 8000             | 5.11             |   |       | 37,900  | 42    | 37,200  | 41    | 36,100  | 39    | 35,000  | 38    | 33,700  | 37    | 32,500  | 36    |
| 541    | 8500             | 5.76             |   |       | 40,800  | 50    | 40,100  | 49    | 39,000  | 48    | 38,200  | 47    | 37,200  | 46    | 36,000  | 45    |
| 574    | 9000             | 6.46             |   |       | 43,600  | 60    | 42,900  | 60    | 42,200  | 58    | 41,400  | 56    | 40,500  | 56    | 39,400  | 54    |
| 605    | 9500             | 7.20             |   |       |   |       | 45,800  | 70    | 45,000  | 70    | 44,300  | 68    | 43,500  | 66    | 42,900  | 66    |
| 637    | 10000            | 7.98             |   |       |   |       | 48,800  | 84    | 48,000  | 82    | 47,300  | 80    | 46,600  | 80    | 45,900  | 78    |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 2 1/2" Water 1.59 ozs. per sq. inch |       | Static Pressure 3" Water 1.73 ozs. per sq. inch     |       | Static Pressure 3 1/2" Water 2.02 ozs. per sq. inch |       | Static Pressure 4" Water 2.31 ozs. per sq. inch     |       | Static Pressure 5" Water 2.89 ozs. per sq. inch     |       | Static Pressure 6" Water 3.47 ozs. per sq. inch     |       | Static Pressure 7" Water 4.05 ozs. per sq. inch     |       |
| 398    | 6250             | 3.12             | 15,200  | 12.5  |   |       |   |       |   |       |   |       |   |       |   |       |
| 414    | 6500             | 3.38             | 17,700  | 15.0  | 15,500  | 13.5  |   |       |   |       |   |       |   |       |   |       |
| 430    | 6750             | 3.63             | 20,100  | 17.5  | 18,100  | 16.5  |   |       |   |       |   |       |   |       |   |       |
| 446    | 7000             | 3.91             | 22,600  | 21    | 20,800  | 20    | 16,500  | 17    |   |       |   |       |   |       |   |       |
| 477    | 7500             | 4.50             | 27,100  | 28    | 25,300  | 26    | 21,600  | 24    | 17,900  | 21    |   |       |   |       |   |       |
| 510    | 8000             | 5.11             | 31,100  | 35    | 29,600  | 34    | 26,400  | 32    | 23,000  | 29    | 15,700  | 22.5  |   |       |   |       |
| 541    | 8500             | 5.76             | 35,000  | 44    | 33,600  | 42    | 30,800  | 40    | 27,600  | 37    | 21,000  | 31    |   |       |   |       |
| 574    | 9000             | 6.46             | 38,500  | 54    | 37,200  | 52    | 34,800  | 50    | 32,000  | 47    | 26,200  | 41    | 19,900  | 35    |   |       |
| 605    | 9500             | 7.20             | 41,800  | 64    | 40,800  | 62    | 38,700  | 60    | 36,200  | 58    | 30,800  | 52    | 25,100  | 46    | 19,000  | 38    |
| 637    | 10000            | 7.98             | 45,100  | 76    | 44,200  | 74    | 42,200  | 72    | 40,100  | 70    | 35,500  | 64    | 30,100  | 58    | 24,400  | 50    |



Single Inlet

**110" Steel Plate Fan—Design 1**

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                     | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. |
|--------|------------------|------------------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|
|        |                  |                  | Static Pressure 1/2" Water .0722 ozs. per sq. inch  |       | Static Pressure 1/4" Water .145 ozs. per sq. inch   |       | Static Pressure 3/8" Water .217 ozs. per sq. inch   |       | Static Pressure 1/2" Water .289 ozs. per sq. inch   |       | Static Pressure 5/8" Water .361 ozs. per sq. inch |       | Static Pressure 3/4" Water .434 ozs. per sq. inch   |       | Static Pressure 7/8" Water .506 ozs. per sq. inch   |       |
| 81     | 1400             | 0.157            | 4,950   | 0.195 |   |       |   |       |   |       |   |       |   |       |   |       |
| 93     | 1600             | 0.205            | 7,270   | 0.31  |   |       |   |       |   |       |   |       |   |       |   |       |
| 104    | 1800             | 0.259            | 9,260   | 0.52  | 4,600   | 0.325 |   |       |   |       |   |       |   |       |   |       |
| 116    | 2000             | 0.320            | 11,000  | 0.75  | 7,270   | 0.54  |   |       |   |       |   |       |   |       |   |       |
| 128    | 2200             | 0.387            | 12,700  | 1.05  | 9,640   | 0.86  | 5,590   | 0.60  |   |       |   |       |   |       |   |       |
| 139    | 2400             | 0.460            | 14,200  | 1.40  | 11,700  | 1.20  | 8,290   | 0.95  |   |       |   |       |   |       |   |       |
| 150    | 2600             | 0.540            | 15,600  | 1.80  | 13,600  | 1.60  | 10,700  | 1.35  | 7,270   | 1.15  |   |       |   |       |   |       |
| 162    | 2800             | 0.626            | 17,100  | 2.30  | 15,400  | 2.05  | 12,900  | 1.85  | 9,870   | 1.55  |   |       |   |       |   |       |
| 174    | 3000             | 0.718            | 18,500  | 2.85  | 17,100  | 2.60  | 14,900  | 2.35  | 12,300  | 2.05  | 9,390   | 1.75  |   |       |   |       |
| 185    | 3200             | 0.816            | 19,800  | 3.5   | 18,600  | 3.25  | 16,800  | 2.95  | 14,500  | 2.70  | 11,900  | 2.35  | 9,030   | 1.95  |   |       |
| 197    | 3400             | 0.922            | 21,200  | 4.2   | 20,100  | 3.95  | 18,600  | 3.65  | 16,600  | 3.40  | 14,300  | 3.05  | 11,500  | 2.65  | 8,970   | 2.25  |
| 208    | 3600             | 1.03             | 22,500  | 5.1   | 21,400  | 4.75  | 20,200  | 4.45  | 18,500  | 4.15  | 16,500  | 3.85  | 14,000  | 3.45  | 10,800  | 3.1   |
| 220    | 3800             | 1.15             | 23,900  | 6.0   | 23,000  | 5.7   | 21,900  | 5.4   | 20,300  | 5.0   | 18,500  | 4.7   | 16,400  | 4.35  | 14,200  | 4.0   |
| 232    | 4000             | 1.28             | 25,200  | 6.9   |   |       | 23,500  | 6.4   | 22,100  | 6.0   | 20,500  | 5.7   | 18,700  | 5.4   | 16,700  | 5.0   |
| 243    | 4200             | 1.41             | 26,500  | 8.1   |   |       | 25,000  | 7.5   | 23,800  | 7.1   | 22,500  | 6.8   | 20,700  | 6.5   | 18,900  | 6.1   |
| 254    | 4400             | 1.54             | 27,900  | 9.3   |   |       | 26,400  | 8.2   | 25,400  | 8.3   | 24,200  | 7.9   | 22,600  | 7.6   | 20,900  | 7.2   |
| 266    | 4600             | 1.69             | 29,200  | 10.5  |   |       | 27,800  | 10.0  | 27,000  | 9.9   | 26,000  | 9.4   | 24,100  | 8.9   | 23,100  | 8.5   |
| 278    | 4800             | 1.84             | 30,400  | 12.0  |   |       | 29,200  | 11.5  | 28,400  | 11.0  | 27,400  | 10.5  | 26,200  | 10.5  | 24,900  | 9.9   |
| 290    | 5000             | 2.00             | 31,800  | 13.5  |   |       |   |       | 29,800  | 13.0  | 29,000  | 12.5  | 28,000  | 12.0  | 26,700  | 11.5  |
| 304    | 5250             | 2.20             | 33,400  | 16.0  |   |       |   |       | 31,700  | 15.0  | 30,800  | 14.5  | 30,000  | 14.0  | 28,800  | 13.5  |
| 318    | 5500             | 2.42             | 35,000  | 18.5  |   |       |   |       | 33,500  | 17.5  |   |       | 32,800  | 17.0  | 31,900  | 16.0  |
| 332    | 5750             | 2.54             | 36,600  | 20    |   |       |   |       |   |       | 34,300  | 18.5  | 33,400  | 18    | 32,700  | 17.5  |
| 348    | 6000             | 2.87             | 38,300  | 24    |   |       |   |       |   |       | 36,000  | 22    | 35,700  | 22    | 35,000  | 21.5  |
| 361    | 6250             | 3.12             | 39,800  | 27    |   |       |   |       |   |       |   |       | 37,400  | 25    | 36,400  | 24.5  |
| 376    | 6500             | 3.38             | 41,500  | 30    |   |       |   |       |   |       |   |       | 39,100  | 29    | 38,700  | 28    |
| 390    | 6750             | 3.63             | 43,100  | 34    |   |       |   |       |   |       |   |       |   |       | 40,400  | 31    |
| 405    | 7000             | 3.91             | 44,700  | 38    |   |       |   |       |   |       |   |       |   |       | 42,300  | 35    |
| 435    | 7500             | 4.50             | 48,000  | 47    |   |       |   |       |   |       |   |       |   |       |   |       |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 ozs. per sq. inch     |       | Static Pressure 1 1/4" Water .723 ozs. per sq. inch |       | Static Pressure 1 1/2" Water .878 ozs. per sq. inch |       | Static Pressure 1 3/4" Water 1.01 ozs. per sq. inch |       | Static Pressure 2" Water 1.16 ozs. per sq. inch   |       | Static Pressure 2 1/4" Water 1.30 ozs. per sq. inch |       | Static Pressure 2 1/2" Water 1.45 ozs. per sq. inch |       |
| 208    | 3600             | 1.03             | 9,160   | 2.60  |   |       |   |       |   |       |   |       |   |       |   |       |
| 220    | 3800             | 1.15             | 11,900  | 3.50  |   |       |   |       |   |       |   |       |   |       |   |       |
| 232    | 4000             | 1.28             | 14,500  | 4.55  | 10,000  | 3.9   |   |       |   |       |   |       |   |       |   |       |
| 243    | 4200             | 1.41             | 16,900  | 5.6   | 12,700  | 4.7   |   |       |   |       |   |       |   |       |   |       |
| 254    | 4400             | 1.54             | 19,100  | 6.8   | 15,200  | 5.8   | 11,000  | 4.7   |   |       |   |       |   |       |   |       |
| 266    | 4600             | 1.69             | 21,400  | 8.0   | 17,700  | 7.2   | 13,900  | 6.1   |   |       |   |       |   |       |   |       |
| 278    | 4800             | 1.84             | 23,400  | 9.5   | 20,100  | 8.6   | 16,600  | 7.6   | 12,600  | 6.2   |   |       |   |       |   |       |
| 290    | 5000             | 2.00             | 25,400  | 11.0  | 22,400  | 10.0  | 19,000  | 9.2   | 15,400  | 8.0   |   |       |   |       |   |       |
| 304    | 5250             | 2.20             | 27,600  | 13.0  | 25,000  | 12.5  | 22,000  | 11.5  | 18,600  | 10.0  | 15,200  | 8.8   |   |       |   |       |
| 318    | 5500             | 2.42             | 29,800  | 15.5  | 27,500  | 14.5  | 24,700  | 13.5  | 21,600  | 12.5  | 18,600  | 11.5  | 15,300  | 10.0  |   |       |
| 332    | 5750             | 2.54             | 31,600  | 17    | 29,400  | 16.5  | 27,200  | 15.5  | 24,700  | 14.5  | 21,700  | 13.5  | 17,400  | 12.0  |   |       |
| 348    | 6000             | 2.87             | 34,100  | 21    | 32,100  | 19.5  | 29,800  | 19    | 27,300  | 18.0  | 24,600  | 16.5  | 21,700  | 15.5  | 18,700  | 14.0  |
| 361    | 6250             | 3.12             | 36,200  | 24    | 34,300  | 23    | 32,200  | 22    | 29,900  | 20.5  | 27,700  | 19.5  | 24,800  | 18.5  | 22,000  | 17.5  |
| 376    | 6500             | 3.38             | 38,000  | 27    | 36,400  | 26    | 34,300  | 25    | 32,500  | 24    | 30,300  | 22.5  | 27,700  | 21.5  | 25,200  | 20.5  |
| 390    | 6750             | 3.63             | 39,900  | 31    | 38,500  | 30    | 36,600  | 28    | 34,800  | 28    | 32,700  | 26    | 30,400  | 25    | 28,200  | 24    |
| 405    | 7000             | 3.91             | 41,800  | 35    | 40,400  | 34    | 38,800  | 32    | 37,000  | 31    | 35,200  | 30    | 33,100  | 29    | 30,800  | 28    |
| 435    | 7500             | 4.50             | 45,300  | 44    | 44,300  | 42    | 42,900  | 41    | 41,400  | 40    | 39,800  | 39    | 38,000  | 38    | 36,200  | 36    |
| 464    | 8000             | 5.11             |   |       | 47,900  | 52    | 46,800  | 52    | 45,600  | 50    | 44,200  | 48    | 42,500  | 47    | 41,000  | 46    |
| 491    | 8500             | 5.76             |   |       | 51,500  | 64    | 50,600  | 62    | 49,200  | 60    | 48,300  | 60    | 47,000  | 58    | 45,500  | 56    |
| 520    | 9000             | 6.46             |   |       | 55,000  | 76    | 54,000  | 74    | 53,300  | 74    | 52,200  | 72    | 51,100  | 70    | 49,800  | 68    |
| 550    | 9500             | 7.20             |   |       |   |       | 57,800  | 90    | 56,900  | 88    | 56,000  | 86    | 55,000  | 84    | 54,100  | 82    |
| 578    | 10000            | 7.98             |   |       |   |       | 61,500  | 105   | 60,600  | 105   | 59,600  | 100   | 58,900  | 100   | 57,900  | 98    |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 2 1/4" Water 1.59 ozs. per sq. inch |       | Static Pressure 2 1/2" Water 1.73 ozs. per sq. inch |       | Static Pressure 3" Water 2.02 ozs. per sq. inch     |       | Static Pressure 3 1/2" Water 2.31 ozs. per sq. inch |       | Static Pressure 4" Water 2.59 ozs. per sq. inch   |       | Static Pressure 4 1/2" Water 3.47 ozs. per sq. inch |       | Static Pressure 5" Water 4.05 ozs. per sq. inch     |       |
| 361    | 6250             | 3.12             | 19,100  | 15.5  |   |       |   |       |   |       |   |       |   |       |   |       |
| 376    | 6500             | 3.38             | 22,400  | 19    | 19,600  | 17.5  |   |       |   |       |   |       |   |       |   |       |
| 390    | 6750             | 3.63             | 25,400  | 22    | 22,800  | 21    |   |       |   |       |   |       |   |       |   |       |
| 405    | 7000             | 3.91             | 28,100  | 26    | 26,200  | 25    | 20,900  | 21.5  |   |       |   |       |   |       |   |       |
| 435    | 7500             | 4.50             | 34,100  | 35    | 32,000  | 33    | 27,300  | 30    | 22,600  | 27    |   |       |   |       |   |       |
| 464    | 8000             | 5.11             | 39,300  | 44    | 37,400  | 43    | 33,400  | 40    | 29,000  | 36    | 19,900  | 28    |   |       |   |       |
| 491    | 8500             | 5.76             | 44,100  | 56    | 42,400  | 54    | 38,800  | 50    | 34,900  | 47    | 26,600  | 40    |   |       |   |       |
| 520    | 9000             | 6.46             | 48,600  | 68    | 47,000  | 66    | 44,000  | 62    | 40,500  | 60    | 33,000  | 52    | 25,100  | 44    |   |       |
| 550    | 9500             | 7.20             | 52,800  | 82    | 51,500  | 80    | 48,900  | 76    | 45,600  | 72    | 39,000  | 66    | 31,700  | 58    | 23,900  | 48    |
| 578    | 10000            | 7.98             | 57,000  | 96    | 55,900  | 94    | 53,900  | 92    | 50,600  | 88    | 44,800  | 82    | 38,000  | 74    | 30,800  | 64    |

Single Inlet

**120" Steel Plate Fan—Design 1**

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.<br>Static Pressure<br>1/2" Water<br>.072 oza. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure<br>1/4" Water<br>.145 oza. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure<br>3/8" Water<br>.217 oza. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure<br>1/2" Water<br>.289 oza. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure<br>5/8" Water<br>.361 oza. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure<br>3/4" Water<br>.434 oza. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure<br>7/8" Water<br>.506 oza. per sq. inch | H. P. |
|--------|------------------|------------------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|
| 74     | 1400             | 0.157            | 6,740  | 0.26  |  |       |  |       |  |       |  |       |  |       |  |       |
| 85     | 1600             | 0.205            | 9,890  | 0.46  |  |       |  |       |  |       |  |       |  |       |  |       |
| 95     | 1800             | 0.259            | 12,600   | 0.71  | 6,250  | 0.445 |  |       |  |       |  |       |  |       |  |       |
| 100    | 2000             | 0.320            | 15,000   | 1.00  | 9,880  | 0.73  |  |       |  |       |  |       |  |       |  |       |
| 117    | 2200             | 0.387            | 17,300   | 1.45  | 13,100   | 1.15  | 7,590  | 0.81  |  |       |  |       |  |       |  |       |
| 127    | 2400             | 0.460            | 19,300   | 1.90  | 15,900   | 1.60  | 11,300   | 1.30  |  |       |  |       |  |       |  |       |
| 138    | 2600             | 0.540            | 21,300   | 2.45  | 18,500   | 2.15  | 14,500   | 1.85  | 9,890  | 1.60  |  |       |  |       |  |       |
| 149    | 2800             | 0.626            | 23,200   | 3.10  | 20,900   | 2.80  | 17,500   | 2.5   | 13,500   | 2.10  |  |       |  |       |  |       |
| 159    | 3000             | 0.718            | 25,100   | 3.85  | 23,200   | 3.55  | 20,300   | 3.2   | 16,700   | 2.80  | 12,800   | 2.35  |  |       |  |       |
| 170    | 3200             | 0.816            | 26,900   | 4.75  | 25,400   | 4.4   | 22,800   | 4.0   | 19,800   | 3.65  | 16,200   | 3.2   | 12,300   | 2.7   |  |       |
| 180    | 3400             | 0.922            | 28,800   | 5.7   | 27,400   | 5.4   | 25,300   | 5.0   | 22,600   | 4.6   | 19,400   | 4.2   | 15,600   | 3.6   | 12,100   | 3.05  |
| 191    | 3600             | 1.03             | 30,600   | 6.9   | 29,200   | 6.5   | 27,500   | 6.0   | 25,200   | 5.6   | 22,400   | 5.3   | 19,000   | 4.7   | 16,000   | 4.2   |
| 202    | 3800             | 1.15             | 31,500   | 8.1   | 31,300   | 7.7   | 29,800   | 7.3   | 27,600   | 6.8   | 25,200   | 6.4   | 22,300   | 5.9   | 19,300   | 5.4   |
| 212    | 4000             | 1.28             | 34,200   | 9.4   |  |       | 32,000   | 8.7   | 30,000   | 8.2   | 27,900   | 7.8   | 25,400   | 7.3   | 22,700   | 6.8   |
| 223    | 4200             | 1.41             | 36,100   | 11.0  |  |       | 34,000   | 10.0  | 32,300   | 9.7   | 30,600   | 9.3   | 28,200   | 8.8   | 25,800   | 8.3   |
| 233    | 4400             | 1.54             | 37,900   | 12.5  |  |       | 35,800   | 12.0  | 34,500   | 11.5  | 33,000   | 11.0  | 30,800   | 10.5  | 28,400   | 9.8   |
| 244    | 4600             | 1.69             | 39,700   | 14.5  |  |       | 37,800   | 13.5  | 36,800   | 13.5  | 35,400   | 13.0  | 33,200   | 12.0  | 31,400   | 11.5  |
| 255    | 4800             | 1.84             | 41,300   | 16.5  |  |       | 39,700   | 15.5  | 38,700   | 15.0  | 37,300   | 14.5  | 35,600   | 14.0  | 33,800   | 13.5  |
| 266    | 5000             | 2.00             | 43,200   | 18.5  |  |       |  |       | 40,600   | 17.5  | 39,400   | 17.0  | 38,000   | 16.0  | 36,300   | 15.5  |
| 278    | 5250             | 2.20             | 45,900   | 21.5  |  |       |  |       | 43,100   | 20.0  | 42,000   | 19.5  | 40,800   | 19.0  | 39,200   | 18.5  |
| 292    | 5500             | 2.42             | 47,600   | 25    |  |       |  |       | 45,500   | 23.5  | 44,600   | 23    | 43,400   | 22.5  | 42,100   | 22    |
| 305    | 5750             | 2.54             | 49,700   | 27    |  |       |  |       |  |       | 46,700   | 25    | 45,800   | 25    | 44,500   | 24    |
| 318    | 6000             | 2.87             | 52,100   | 32    |  |       |  |       |  |       | 48,900   | 30    | 48,500   | 30    | 47,500   | 29    |
| 332    | 6250             | 3.12             | 54,100   | 37    |  |       |  |       |  |       |  |       | 51,000   | 34    | 49,600   | 33    |
| 345    | 6500             | 3.38             | 56,400   | 41    |  |       |  |       |  |       |  |       | 53,500   | 39    | 52,000   | 38    |
| 358    | 6750             | 3.63             | 58,600   | 46    |  |       |  |       |  |       |  |       |  |       | 55,000   | 43    |
| 372    | 7000             | 3.91             | 60,900   | 52    |  |       |  |       |  |       |  |       |  |       | 57,000   | 48    |
| 398    | 7500             | 4.50             | 65,300   | 64    |  |       |  |       |  |       |  |       |  |       |  |       |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure<br>1" Water<br>.578 oza. per sq. inch                    | H. P. | Static Pressure<br>1 1/2" Water<br>.723 oza. per sq. inch                | H. P. | Static Pressure<br>1 3/4" Water<br>.878 oza. per sq. inch                | H. P. | Static Pressure<br>2" Water<br>1.01 oza. per sq. inch                    | H. P. | Static Pressure<br>2 1/2" Water<br>1.16 oza. per sq. inch                | H. P. | Static Pressure<br>3" Water<br>1.30 oza. per sq. inch                    | H. P. | Static Pressure<br>3 1/2" Water<br>1.45 oza. per sq. inch                | H. P. |
| 191    | 3600             | 1.03             | 12,500   | 3.55  |  |       |  |       |  |       |  |       |  |       |  |       |
| 202    | 3800             | 1.15             | 16,200   | 4.8   |  |       |  |       |  |       |  |       |  |       |  |       |
| 212    | 4000             | 1.28             | 19,800   | 6.2   | 13,600   | 5.3   |  |       |  |       |  |       |  |       |  |       |
| 223    | 4200             | 1.41             | 23,000   | 7.6   | 17,500   | 6.4   |  |       |  |       |  |       |  |       |  |       |
| 233    | 4400             | 1.54             | 26,000   | 9.2   | 20,600   | 8.0   | 15,000   | 6.4   |  |       |  |       |  |       |  |       |
| 244    | 4600             | 1.69             | 29,200   | 11.0  | 21,000   | 9.8   | 18,800   | 8.3   |  |       |  |       |  |       |  |       |
| 255    | 4800             | 1.84             | 31,800   | 13.0  | 27,400   | 11.5  | 22,500   | 10.5  | 17,200   | 8.5   |  |       |  |       |  |       |
| 266    | 5000             | 2.00             | 34,500   | 15.0  | 30,400   | 14.0  | 25,900   | 12.5  | 21,000   | 11    |  |       |  |       |  |       |
| 278    | 5250             | 2.20             | 37,500   | 17.5  | 34,000   | 16.5  | 30,000   | 15.5  | 25,300   | 14    | 20,000   | 12.0  |  |       |  |       |
| 292    | 5500             | 2.42             | 40,600   | 21.0  | 37,400   | 20.0  | 33,600   | 18.5  | 29,400   | 17    | 25,200   | 15.5  | 20,800   | 13.5  |  |       |
| 305    | 5750             | 2.54             | 43,000   | 23.5  | 40,000   | 22.5  | 37,000   | 21    | 33,600   | 20    | 29,500   | 18.5  | 23,700   | 16.5  |  |       |
| 318    | 6000             | 2.87             | 46,300   | 28    | 43,600   | 27    | 40,500   | 26    | 37,100   | 24    | 33,400   | 22.5  | 29,600   | 21    | 25,500   | 19    |
| 332    | 6250             | 3.12             | 49,200   | 33    | 46,600   | 31    | 43,800   | 30    | 40,700   | 28    | 37,000   | 27    | 33,800   | 25    | 29,900   | 23    |
| 345    | 6500             | 3.38             | 51,700   | 37    | 49,600   | 36    | 46,600   | 34    | 44,200   | 33    | 41,200   | 31    | 37,700   | 30    | 34,200   | 28    |
| 358    | 6750             | 3.63             | 54,300   | 42    | 52,400   | 40    | 49,900   | 39    | 47,300   | 37    | 44,500   | 36    | 41,400   | 34    | 38,300   | 33    |
| 372    | 7000             | 3.91             | 56,800   | 48    | 55,000   | 46    | 52,800   | 44    | 50,400   | 42    | 47,900   | 41    | 45,000   | 39    | 41,900   | 38    |
| 398    | 7500             | 4.50             | 61,600   | 60    | 60,200   | 58    | 58,400   | 56    | 56,300   | 54    | 54,100   | 52    | 51,700   | 52    | 49,200   | 49    |
| 425    | 8000             | 5.11             |  |       | 65,100   | 72    | 63,700   | 70    | 62,000   | 68    | 60,000   | 66    | 57,900   | 64    | 55,800   | 62    |
| 451    | 8500             | 5.76             |  |       | 70,100   | 86    | 68,800   | 84    | 66,900   | 82    | 65,600   | 80    | 63,900   | 78    | 61,900   | 76    |
| 478    | 9000             | 6.46             |  |       | 74,900   | 105   | 73,500   | 100   | 72,500   | 100   | 71,000   | 98    | 69,000   | 96    | 67,700   | 94    |
| 504    | 9500             | 7.20             |  |       |  |       | 78,600   | 120   | 77,400   | 120   | 76,000   | 115   | 74,900   | 115   | 73,500   | 115   |
| 530    | 10000            | 7.98             |  |       |  |       | 83,600   | 145   | 82,400   | 140   | 81,100   | 140   | 80,000   | 135   | 78,800   | 135   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure<br>3" Water<br>1.59 oza. per sq. inch                    | H. P. | Static Pressure<br>3 1/2" Water<br>1.73 oza. per sq. inch                | H. P. | Static Pressure<br>3 3/4" Water<br>2.02 oza. per sq. inch                | H. P. | Static Pressure<br>4" Water<br>2.31 oza. per sq. inch                    | H. P. | Static Pressure<br>5" Water<br>2.89 oza. per sq. inch                    | H. P. | Static Pressure<br>6" Water<br>3.47 oza. per sq. inch                    | H. P. | Static Pressure<br>7" Water<br>4.05 oza. per sq. inch                    | H. P. |
| 332    | 6250             | 3.12             | 26,000   | 21    |  |       |  |       |  |       |  |       |  |       |  |       |
| 345    | 6500             | 3.38             | 30,500   | 26    | 26,600   | 23.5  |  |       |  |       |  |       |  |       |  |       |
| 358    | 6750             | 3.63             | 34,500   | 30    | 31,100   | 28    |  |       |  |       |  |       |  |       |  |       |
| 372    | 7000             | 3.91             | 38,700   | 36    | 35,600   | 34    | 28,400   | 29    |  |       |  |       |  |       |  |       |
| 398    | 7500             | 4.50             | 46,500   | 47    | 43,500   | 45    | 37,100   | 41    | 30,700   | 36    |  |       |  |       |  |       |
| 425    | 8000             | 5.11             | 53,500   | 60    | 50,900   | 58    | 45,400   | 54    | 39,400   | 50    | 27,000   | 39    |  |       |  |       |
| 451    | 8500             | 5.76             | 60,100   | 76    | 57,700   | 72    | 52,800   | 68    | 47,400   | 64    | 36,100   | 54    |  |       |  |       |
| 478    | 9000             | 6.46             | 66,100   | 92    | 63,900   | 90    | 59,700   | 86    | 55,000   | 80    | 44,900   | 70    | 34,100   | 60    |  |       |
| 504    | 9500             | 7.20             | 71,900   | 110   | 70,000   | 110   | 66,400   | 105   | 62,100   | 98    | 53,000   | 90    | 43,100   | 78    | 32,500   | 66    |
| 530    | 10000            | 7.98             | 77,000   | 130   | 76,000   | 130   | 72,400   | 125   | 68,900   | 120   | 60,900   | 110   | 51,600   | 100   | 41,800   | 86    |

Single Inlet

## 140" Steel Plate Fan—Design 1

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                     | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. |
|--------|------------------|------------------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|
|        |                  |                  | Static Pressure 1/2" Water .0722 ozs. per sq. inch  |       | Static Pressure 1/2" Water .145 ozs. per sq. inch   |       | Static Pressure 3/4" Water .217 ozs. per sq. inch   |       | Static Pressure 1/2" Water .289 ozs. per sq. inch   |       | Static Pressure 3/4" Water .361 ozs. per sq. inch |       | Static Pressure 1/2" Water .434 ozs. per sq. inch   |       | Static Pressure 3/4" Water .506 ozs. per sq. inch   |       |
| 63     | 1400             | 0.157            | 8,700   | 0.31  |   |       |   |       |   |       |   |       |   |       |   |       |
| 73     | 1600             | 0.205            | 12,900  | 0.60  |   |       |   |       |   |       |   |       |   |       |   |       |
| 82     | 1800             | 0.259            | 16,400  | 0.92  |   |       |   |       |   |       |   |       |   |       |   |       |
| 91     | 2000             | 0.320            | 19,500  | 1.35  | 8,130   | 0.58  |   |       |   |       |   |       |   |       |   |       |
| 100    | 2200             | 0.387            | 22,500  | 1.85  | 12,900  | 0.95  |   |       |   |       |   |       |   |       |   |       |
| 109    | 2400             | 0.460            | 25,100  | 2.45  | 17,100  | 1.50  | 9,870   | 1.05  |   |       |   |       |   |       |   |       |
| 118    | 2600             | 0.510            | 27,700  | 3.20  | 20,700  | 2.10  | 14,600  | 1.70  |   |       |   |       |   |       |   |       |
| 127    | 2800             | 0.626            | 30,200  | 4.05  | 24,000  | 2.80  | 18,900  | 2.40  | 12,900  | 2.05  |   |       |   |       |   |       |
| 136    | 3000             | 0.718            | 32,700  | 5.0   | 27,300  | 3.65  | 22,800  | 2.25  | 17,500  | 2.70  |   |       |   |       |   |       |
| 145    | 3200             | 0.816            | 35,000  | 6.2   | 30,200  | 4.6   | 26,400  | 4.15  | 21,700  | 3.65  | 16,600  | 3.1   |   |       |   |       |
| 155    | 3400             | 0.922            | 37,500  | 7.4   | 33,000  | 5.7   | 29,700  | 5.2   | 25,700  | 4.75  | 21,100  | 4.2   | 16,000  | 3.50  |   |       |
| 164    | 3600             | 1.03             | 39,800  | 9.0   | 35,600  | 7.0   | 32,900  | 6.5   | 29,500  | 6.0   | 25,200  | 5.4   | 20,300  | 4.65  | 15,900  | 4.0   |
| 173    | 3800             | 1.15             | 42,200  | 10.5  | 38,000  | 8.4   | 35,800  | 7.9   | 32,800  | 7.3   | 29,200  | 6.8   | 24,700  | 6.1   | 20,800  | 5.5   |
| 182    | 4000             | 1.28             | 44,500  | 12.5  | 10,800  | 10    | 38,800  | 9.5   | 35,800  | 8.8   | 32,700  | 8.3   | 29,000  | 7.7   | 25,200  | 7.0   |
| 191    | 4200             | 1.41             | 47,000  | 14.5  |   |       | 41,500  | 11.5  | 39,100  | 10.5  | 36,300  | 10.0  | 33,100  | 9.5   | 29,500  | 8.8   |
| 200    | 4400             | 1.54             | 49,400  | 16.5  |   |       | 44,200  | 13.5  | 42,000  | 12.5  | 39,800  | 12.0  | 36,600  | 11.5  | 33,500  | 11.0  |
| 209    | 4600             | 1.69             | 51,800  | 18.5  |   |       | 46,600  | 15.5  | 44,900  | 15.0  | 42,900  | 14.0  | 40,000  | 13.5  | 36,900  | 12.5  |
| 218    | 4800             | 1.84             | 53,800  | 21.5  |   |       | 49,200  | 18.0  | 47,800  | 17.5  | 46,000  | 16.5  | 43,200  | 15.5  | 40,800  | 15.0  |
| 228    | 5000             | 2.00             | 56,300  | 24    |   |       | 51,600  | 20.5  | 50,300  | 19.5  | 48,500  | 19    | 46,300  | 18.5  | 44,000  | 17.5  |
| 239    | 5250             | 2.20             | 59,000  | 28    |   |       |   |       | 52,800  | 22.5  | 51,300  | 22    | 49,500  | 21    | 47,200  | 20    |
| 250    | 5500             | 2.42             | 62,000  | 32    |   |       |   |       | 56,100  | 26    | 54,600  | 26    | 53,100  | 25    | 51,100  | 24    |
| 261    | 5750             | 2.54             | 64,600  | 36    |   |       |   |       | 59,200  | 31    |   |       | 58,000  | 30    | 54,700  | 28    |
| 273    | 6000             | 2.87             | 67,800  | 42    |   |       |   |       |   |       |   |       | 60,700  | 33    | 58,000  | 31    |
| 284    | 6250             | 3.12             | 70,500  | 48    |   |       |   |       |   |       |   |       | 63,600  | 39    | 61,900  | 38    |
| 296    | 6500             | 3.38             | 73,500  | 54    |   |       |   |       |   |       |   |       |   |       | 64,500  | 43    |
| 307    | 6750             | 3.63             | 76,100  | 60    |   |       |   |       |   |       |   |       | 69,700  | 50    | 68,500  | 50    |
| 318    | 7000             | 3.91             | 79,100  | 66    |   |       |   |       |   |       |   |       |   |       | 71,600  | 56    |
| 341    | 7500             | 4.50             | 85,000  | 84    |   |       |   |       |   |       |   |       |   |       | 74,900  | 62    |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 ozs. per sq. inch     |       | Static Pressure 1 1/2" Water .723 ozs. per sq. inch |       | Static Pressure 1 1/2" Water .875 ozs. per sq. inch |       | Static Pressure 1 3/4" Water 1.01 ozs. per sq. inch |       | Static Pressure 2" Water 1.16 ozs. per sq. inch   |       | Static Pressure 2 1/4" Water 1.30 ozs. per sq. inch |       | Static Pressure 2 1/2" Water 1.45 ozs. per sq. inch |       |
| 164    | 3600             | 1.03             | 16,200  | 4.65  |   |       |   |       |   |       |   |       |   |       |   |       |
| 173    | 3800             | 1.15             | 21,000  | 6.2   |   |       |   |       |   |       |   |       |   |       |   |       |
| 182    | 4000             | 1.28             | 25,700  | 8.1   | 17,700  | 6.9   |   |       |   |       |   |       |   |       |   |       |
| 191    | 4200             | 1.41             | 29,900  | 9.9   | 22,500  | 8.3   |   |       |   |       |   |       |   |       |   |       |
| 200    | 4400             | 1.54             | 33,800  | 12.0  | 26,900  | 10.5  | 19,500  | 8.3   |   |       |   |       |   |       |   |       |
| 209    | 4600             | 1.69             | 38,000  | 14.0  | 31,300  | 13.0  | 24,500  | 11.0  |   |       |   |       |   |       |   |       |
| 218    | 4800             | 1.84             | 41,300  | 17.0  | 35,600  | 15.0  | 29,300  | 13.5  | 22,300  | 11    |   |       |   |       |   |       |
| 228    | 5000             | 2.00             | 44,900  | 19.5  | 39,600  | 18.0  | 33,700  | 16.5  | 27,300  | 14    |   |       |   |       |   |       |
| 239    | 5250             | 2.20             | 48,800  | 23    | 44,200  | 21.5  | 38,900  | 20    | 32,900  | 18    | 26,900  | 15.5  |   |       |   |       |
| 250    | 5500             | 2.42             | 52,800  | 27    | 48,700  | 26    | 43,700  | 24    | 38,300  | 22    | 32,800  | 20    | 27,100  | 17.5  |   |       |
| 261    | 5750             | 2.54             | 56,900  | 30    | 52,000  | 29    | 48,100  | 28    | 43,700  | 26    | 38,500  | 24    | 30,900  | 21    |   |       |
| 273    | 6000             | 2.87             | 60,300  | 37    | 56,700  | 35    | 52,700  | 33    | 48,300  | 31    | 43,400  | 29    | 38,500  | 27    |   |       |
| 284    | 6250             | 3.12             | 64,000  | 43    | 60,700  | 40    | 56,900  | 39    | 53,000  | 37    | 49,000  | 35    | 43,900  | 33    | 33,200  | 24.5  |
| 296    | 6500             | 3.38             | 67,300  | 49    | 64,500  | 47    | 60,600  | 44    | 57,600  | 43    | 53,600  | 40    | 49,000  | 38    | 38,900  | 30    |
| 307    | 6750             | 3.63             | 70,600  | 54    | 68,100  | 52    | 64,800  | 50    | 61,500  | 49    | 57,900  | 47    | 53,800  | 44    | 44,500  | 36    |
| 318    | 7000             | 3.91             | 73,900  | 62    | 71,600  | 60    | 68,600  | 58    | 65,500  | 56    | 62,200  | 54    | 58,500  | 52    | 49,800  | 42    |
| 341    | 7500             | 4.50             | 80,200  | 78    | 78,400  | 76    | 75,900  | 72    | 73,200  | 70    | 70,500  | 68    | 67,300  | 66    | 64,000  | 64    |
| 364    | 8000             | 5.11             |   |       | 84,700  | 92    | 83,000  | 90    | 80,600  | 88    | 78,100  | 84    | 75,400  | 82    | 72,500  | 80    |
| 386    | 8500             | 5.76             |   |       | 91,100  | 110   | 89,500  | 110   | 87,100  | 105   | 85,500  | 105   | 83,100  | 100   | 80,500  | 100   |
| 409    | 9000             | 6.46             |   |       | 97,400  | 135   | 95,600  | 130   | 94,300  | 130   | 92,400  | 125   | 90,500  | 125   | 88,000  | 120   |
| 432    | 9500             | 7.20             |   |       |   |       | 102,000   | 160   | 101,000   | 155   | 99,000  | 150   | 97,500  | 150   | 95,600  | 145   |
| 455    | 10000            | 7.98             |   |       |   |       | 109,000   | 185   | 107,000   | 180   | 106,000   | 180   | 104,000   | 175   | 103,000   | 175   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 2 1/2" Water 1.59 ozs. per sq. inch |       | Static Pressure 3" Water 1.73 ozs. per sq. inch     |       | Static Pressure 3 1/2" Water 2.05 ozs. per sq. inch |       | Static Pressure 4" Water 2.31 ozs. per sq. inch     |       | Static Pressure 5" Water 2.89 ozs. per sq. inch   |       | Static Pressure 6" Water 3.47 ozs. per sq. inch     |       | Static Pressure 7" Water 4.05 ozs. per sq. inch     |       |
| 284    | 6250             | 3.12             | 33,900  | 27    |   |       |   |       |   |       |   |       |   |       |   |       |
| 296    | 6500             | 3.38             | 39,000  | 34    | 34,600  | 31    |   |       |   |       |   |       |   |       |   |       |
| 307    | 6750             | 3.63             | 44,900  | 39    | 40,400  | 37    |   |       |   |       |   |       |   |       |   |       |
| 318    | 7000             | 3.91             | 50,400  | 46    | 46,400  | 44    | 37,000  | 38    |   |       |   |       |   |       |   |       |
| 341    | 7500             | 4.50             | 60,400  | 62    | 56,500  | 60    | 48,300  | 54    | 40,000  | 47    |   |       |   |       |   |       |
| 364    | 8000             | 5.11             | 69,600  | 80    | 66,100  | 76    | 59,000  | 70    | 51,300  | 64    | 35,200  | 50    |   |       |   |       |
| 386    | 8500             | 5.76             | 78,100  | 98    | 75,000  | 94    | 68,600  | 90    | 61,600  | 84    | 47,000  | 70    |   |       |   |       |
| 409    | 9000             | 6.46             | 86,100  | 120   | 83,100  | 115   | 77,700  | 110   | 71,500  | 105   | 58,400  | 92    | 44,400  | 78    |   |       |
| 432    | 9500             | 7.20             | 93,500  | 145   | 91,000  | 140   | 86,400  | 135   | 80,800  | 130   | 68,900  | 115   | 56,100  | 100   | 42,300  | 84    |
| 455    | 10000            | 7.98             | 101,000   | 170   | 98,800  | 165   | 94,200  | 160   | 89,700  | 155   | 79,200  | 145   | 67,200  | 130   | 54,500  | 115   |

Single Inlet

**160" Steel Plate Fan—Design 1**

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M. H. P. Static Pressure 1/8" Water .0722 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1/4" Water .145 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 3/8" Water .217 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1/2" Water .289 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 5/8" Water .361 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 3/4" Water .434 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 7/8" Water .506 ozs. per sq. inch |
|--------|------------------|------------------|--|---|---|---|---|---|---|
| 56     | 1100             | 0.157            | 9,850 0.385  |   |   |   |   |   |   |
| 64     | 1600             | 0.205            | 14,500 0.67  |   |   |   |   |   |   |
| 72     | 1800             | 0.259            | 18,400 1.05  | 9,140 0.65  |   |   |   |   |   |
| 79     | 2000             | 0.320            | 22,000 1.50  | 11,500 1.05   |   |   |   |   |   |
| 87     | 2200             | 0.387            | 25,300 2.10  | 19,200 1.70   | 11,100 1.20   |   |   |   |   |
| 95     | 2400             | 0.460            | 28,200 2.75  | 23,200 2.35   | 16,500 1.90   |   |   |   |   |
| 103    | 2600             | 0.540            | 31,100 3.60  | 27,000 3.15   | 21,200 2.70   | 14,500 2.30   |   |   |   |
| 110    | 2800             | 0.626            | 33,900 4.55  | 30,000 4.1  | 25,000 3.65   | 19,700 3.05   |   |   |   |
| 119    | 3000             | 0.718            | 36,700 5.6   | 34,000 5.2  | 29,700 4.65   | 24,400 4.1  | 18,700 3.45   |   |   |
| 127    | 3200             | 0.816            | 39,300 6.9   | 37,100 6.5  | 33,300 5.9  | 28,900 5.3  | 23,700 4.7  | 18,000 3.9  |   |
| 135    | 3400             | 0.922            | 42,100 8.3   | 40,000 7.9  | 37,000 7.3  | 33,100 6.7  | 28,400 6.1  | 22,800 5.2  | 17,800 4.5  |
| 143    | 3600             | 1.03             | 44,800 10.0  | 42,600 9.5  | 40,200 8.8  | 36,800 8.3  | 32,800 7.7  | 27,800 6.9  | 23,400 6.2  |
| 151    | 3800             | 1.15             | 47,500 12.0  | 45,800 11.5   | 43,500 10.5   | 40,300 9.9  | 36,800 9.1  | 32,600 8.6  | 28,300 7.9  |
| 159    | 4000             | 1.28             | 50,000 14.0  |   | 46,700 12.5   | 44,000 12.0   | 40,800 11.5   | 37,200 10.5   | 33,200 9.9  |
| 167    | 4200             | 1.41             | 52,800 16.0  |   | 49,600 15   | 47,300 14.0   | 44,700 13.5   | 41,100 13.0   | 37,600 12.0   |
| 175    | 4400             | 1.54             | 55,500 18.5  |   | 52,400 17   | 50,400 16.5   | 48,200 16.0   | 45,000 15.0   | 41,500 14.5   |
| 183    | 4600             | 1.69             | 58,000 21  |   | 55,400 20   | 53,800 19.5   | 51,700 18.5   | 48,500 17.5   | 45,900 17.0   |
| 191    | 4800             | 1.84             | 60,500 24  |   | 58,000 23   | 56,500 22   | 54,500 21.5   | 52,100 20.5   | 49,500 19.5   |
| 199    | 5000             | 2.00             | 63,200 27  |   |   | 59,300 25   | 57,600 24.5   | 55,600 23.5   | 53,000 22.5   |
| 209    | 5250             | 2.20             | 66,400 32  |   |   | 63,000 29   | 61,400 29   | 59,700 28   | 57,400 27   |
| 219    | 5500             | 2.42             | 69,700 37  |   |   | 66,500 34   |   | 65,300 34   | 61,500 32   |
| 229    | 5750             | 2.54             | 72,700 40  |   |   |   |   | 68,300 37   | 65,100 35   |
| 239    | 6000             | 2.87             | 76,300 47  |   |   |   |   | 71,500 44   | 69,500 42   |
| 249    | 6250             | 3.12             | 79,300 54  |   |   |   |   | 74,600 50   | 72,500 49   |
| 258    | 6500             | 3.38             | 82,500 60  |   |   |   |   | 78,400 57   | 77,000 56   |
| 268    | 6750             | 3.63             | 85,900 68  |   |   |   |   |   | 80,500 62   |
| 278    | 7000             | 3.91             | 89,000 76  |   |   |   |   |   | 84,100 70   |
| 298    | 7500             | 4.50             | 95,500 94  |   |   |   |   |   |   |
|        |                  |                  |  |   |   |   |   |   |   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 ozs. per sq. inch                        | Static Pressure 1 1/4" Water .723 ozs. per sq. inch                   | Static Pressure 1 1/2" Water .878 ozs. per sq. inch                   | Static Pressure 1 3/4" Water 1.01 ozs. per sq. inch                   | Static Pressure 2" Water 1.16 ozs. per sq. inch                       | Static Pressure 2 1/4" Water 1.30 ozs. per sq. inch                   | Static Pressure 2 1/2" Water 1.45 ozs. per sq. inch                   |
| 143    | 3600             | 1.03             | 18,200 5.2   |   |   |   |   |   |   |
| 151    | 3800             | 1.15             | 23,600 7.0   |   |   |   |   |   |   |
| 159    | 4000             | 1.28             | 28,900 9.1   | 19,900 7.8  |   |   |   |   |   |
| 167    | 4200             | 1.41             | 33,600 11.0  | 25,300 9.3  |   |   |   |   |   |
| 175    | 4400             | 1.54             | 38,000 13.5  | 30,200 11.5   | 21,900 9.4  |   |   |   |   |
| 183    | 4600             | 1.69             | 42,000 16  | 35,200 14.5   | 27,600 12.0   |   |   |   |   |
| 191    | 4800             | 1.84             | 46,500 19  | 40,000 17.0   | 32,900 15.0   | 25,100 12.5   |   |   |   |
| 199    | 5000             | 2.00             | 50,500 22  | 44,500 20.0   | 37,800 18.5   | 30,600 16   |   |   |   |
| 209    | 5250             | 2.20             | 54,800 26  | 49,700 24.5   | 43,700 22.5   | 37,000 20   | 30,200 17.5   |   |   |
| 219    | 5500             | 2.42             | 59,300 31  | 54,800 29   | 49,100 27   | 43,000 25   | 36,900 22.5   | 30,400 20   |   |
| 229    | 5750             | 2.54             | 62,900 34  | 58,500 33   | 54,100 31   | 49,100 29   | 43,200 27   | 34,700 24   |   |
| 239    | 6000             | 2.87             | 67,700 41  | 63,800 39   | 59,200 37   | 54,200 35   | 48,900 33   | 43,200 31   | 37,300 28   |
| 249    | 6250             | 3.12             | 72,000 48  | 68,200 45   | 64,000 43   | 59,500 41   | 55,000 39   | 49,400 37   | 43,800 34   |
| 258    | 6500             | 3.38             | 75,500 54  | 72,500 52   | 68,200 50   | 64,700 48   | 60,300 45   | 55,100 43   | 50,000 41   |
| 268    | 6750             | 3.63             | 79,100 62  | 76,600 60   | 72,900 56   | 69,100 54   | 65,000 52   | 60,500 50   | 56,000 48   |
| 278    | 7000             | 3.91             | 83,000 70  | 80,500 66   | 77,100 64   | 73,600 62   | 70,000 60   | 66,000 58   | 61,200 54   |
| 298    | 7500             | 4.50             | 90,100 88  | 88,000 84   | 85,300 82   | 82,300 80   | 79,200 76   | 75,000 74   | 72,000 72   |
| 318    | 8000             | 5.11             |  | 95,400 105  | 93,200 100  | 90,500 98   | 87,900 96   | 84,700 92   | 81,600 90   |
| 338    | 8500             | 5.76             |  | 102,000 125   | 101,000 125   | 97,900 120  | 96,000 120  | 93,500 115  | 90,500 110  |
| 358    | 9000             | 6.46             |  | 110,000 150   | 108,000 150   | 106,000 145   | 104,000 145   | 102,000 140   | 99,000 135  |
| 378    | 9500             | 7.20             |  |   | 115,000 175   | 113,000 175   | 111,000 170   | 109,000 170   | 108,000 165   |
| 398    | 10000            | 7.98             |  |   | 122,000 210   | 121,000 205   | 119,000 200   | 117,000 200   | 115,000 195   |
|        |                  |                  |  |   |   |   |   |   |   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 2 3/4" Water 1.59 ozs. per sq. inch                    | Static Pressure 3" Water 1.73 ozs. per sq. inch                       | Static Pressure 3 1/2" Water 2.02 ozs. per sq. inch                   | Static Pressure 3 3/4" Water 2.31 ozs. per sq. inch                   | Static Pressure 4" Water 2.59 ozs. per sq. inch                       | Static Pressure 4 1/4" Water 3.47 ozs. per sq. inch                   | Static Pressure 4 1/2" Water 4.05 ozs. per sq. inch                   |
| 249    | 6250             | 3.12             | 38,000 31  |   |   |   |   |   |   |
| 258    | 6500             | 3.38             | 44,500 38  | 39,000 34   |   |   |   |   |   |
| 268    | 6750             | 3.63             | 50,400 44  | 45,500 42   |   |   |   |   |   |
| 278    | 7000             | 3.91             | 56,600 52  | 52,100 50   | 41,500 42   |   |   |   |   |
| 298    | 7500             | 4.50             | 67,900 70  | 63,600 66   | 54,200 60   | 44,400 52   |   |   |   |
| 318    | 8000             | 5.11             | 78,100 88  | 74,500 86   | 66,400 80   | 57,700 72   | 39,500 56   |   |   |
| 338    | 8500             | 5.76             | 87,700 110   | 84,400 105  | 77,100 100  | 69,400 94   | 52,900 78   |   |   |
| 358    | 9000             | 6.46             | 96,700 135   | 93,400 130  | 87,400 125  | 80,500 120  | 65,600 105  | 49,900 86   |   |
| 378    | 9500             | 7.20             | 105,000 160  | 102,000 160   | 97,100 150  | 90,900 145  | 77,500 130  | 63,000 115  | 47,600 96   |
| 398    | 10000            | 7.98             | 113,000 195  | 111,000 190   | 106,000 180   | 101,000 175   | 89,000 160  | 75,500 145  | 61,100 125  |

Single Inlet

**180" Steel Plate Fan—Design 1**

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M. H. P. Static Pressure 1/4" Water .0722 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1/4" Water .145 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 3/4" Water .217 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1 1/4" Water .289 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1 1/2" Water .361 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 2" Water .434 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 2 1/2" Water .506 ozs. per sq. inch |
|--------|------------------|------------------|--|---|---|---|---|---|---|
| 50     | 1400             | 0 157            | 12,300 0 48  |   |   |   |   |   |   |
| 57     | 1600             | 0 205            | 18,100 0 81  |   |   |   |   |   |   |
| 61     | 1800             | 0 259            | 23,000 1 30  | 11,400 0 81   |   |   |   |   |   |
| 71     | 2000             | 0 320            | 27,500 1 85  | 18,100 1 35   |   |   |   |   |   |
| 78     | 2200             | 0 387            | 31,600 2 60  | 21,000 2 15   | 13,900 1 50   |   |   |   |   |
| 85     | 2400             | 0 460            | 35,300 3 45  | 29,000 2 95   | 20,600 2 35   |   |   |   |   |
| 92     | 2600             | 0 510            | 38,900 4 5   | 33,800 3 95   | 26,600 3 35   | 18,100 2 9  |   |   |   |
| 99     | 2800             | 0 626            | 42,500 5 7   | 38,300 5 1  | 32,000 4 55   | 24,600 3 8  |   |   |   |
| 106    | 3000             | 0 718            | 45,900 7 1   | 42,500 6 5  | 37,100 5 8  | 30,600 5 1  | 23,400 4 35   |   |   |
| 113    | 3200             | 0 816            | 49,100 8 7   | 46,400 8 1  | 41,700 7 4  | 36,200 6 7  | 29,600 5 9  | 22,500 4 9  |   |
| 120    | 3400             | 0 922            | 52,600 10 5  | 50,100 9 8  | 46,300 9 1  | 41,400 8 4  | 35,500 7 6  | 28,500 6 6  | 22,300 5 6  |
| 127    | 3600             | 1 03             | 56,000 12 5  | 53,400 12   | 50,400 11 0   | 46,000 10 5   | 41,000 9 6  | 34,800 8 6  | 29,200 7 7  |
| 135    | 3800             | 1 15             | 59,400 15 0  | 57,300 14   | 54,500 13 5   | 50,400 12 5   | 46,000 11 5   | 40,800 11 0   | 35,400 9 9  |
| 141    | 4000             | 1 28             | 62,600 17 5  |   | 58,400 16 0   | 55,000 15 0   | 51,000 14 0   | 46,500 13 5   | 41,500 12 5   |
| 149    | 4200             | 1 41             | 66,000 20  |   | 62,100 18 5   | 59,100 18 0   | 55,900 17 0   | 51,500 16   | 47,100 15   |
| 156    | 4400             | 1 54             | 69,400 23  |   | 65,500 21 5   | 63,100 21 0   | 60,300 20 0   | 56,200 19   | 52,000 18   |
| 163    | 4600             | 1 69             | 72,600 26  |   | 69,200 25   | 67,300 24 5   | 64,800 23 5   | 60,800 22   | 57,400 21   |
| 170    | 4800             | 1 84             | 75,600 30  |   | 72,600 28   | 70,700 28   | 68,100 26   | 65,200 25   | 61,900 25   |
| 177    | 5000             | 2 00             | 79,100 34  |   |   | 74,200 32   | 72,100 31   | 69,600 30   | 66,400 28   |
| 186    | 5250             | 2 20             | 83,000 40  |   |   | 78,900 37   | 76,800 36   | 74,600 35   | 71,800 34   |
| 194    | 5500             | 2 42             | 87,200 46  |   |   | 83,300 43   | 81,600 42   | 79,400 41   | 77,000 40   |
| 204    | 5750             | 2 54             | 90,900 50  |   |   |   | 85,300 46   | 83,700 45   | 81,400 44   |
| 212    | 6000             | 2 87             | 95,400 60  |   |   |   | 89,500 56   | 88,900 54   | 87,000 54   |
| 221    | 6250             | 3 12             | 99,100 68  |   |   |   |   | 93,400 62   | 90,600 60   |
| 230    | 6500             | 3 38             | 103,000 76   |   |   |   |   | 98,000 72   | 96,400 70   |
| 239    | 6750             | 3 63             | 107,000 84   |   |   |   |   |   | 101,000 78  |
| 248    | 7000             | 3 91             | 110,000 94   |   |   |   |   |   | 105,000 88  |
| 266    | 7500             | 4 50             | 119,000 115  |   |   |   |   |   |   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1 1/4" Water .578 ozs. per sq. inch                    | Static Pressure 1 1/2" Water .723 ozs. per sq. inch                   | Static Pressure 1 3/4" Water .878 ozs. per sq. inch                   | Static Pressure 2" Water 1.01 ozs. per sq. inch                         | Static Pressure 2 1/2" Water 1.16 ozs. per sq. inch                     | Static Pressure 3" Water 1.30 ozs. per sq. inch                     | Static Pressure 3 1/2" Water 1.45 ozs. per sq. inch                     |
| 127    | 3600             | 1 03             | 22,800 6 5   |   |   |   |   |   |   |
| 135    | 3800             | 1 15             | 29,600 8 8   |   |   |   |   |   |   |
| 141    | 4000             | 1 28             | 36,200 11 5  | 24,900 9 7  |   |   |   |   |   |
| 149    | 4200             | 1 41             | 42,000 14  | 31,700 11 5   |   |   |   |   |   |
| 156    | 4400             | 1 54             | 47,500 17  | 37,800 14 5   | 27,500 11 5   |   |   |   |   |
| 163    | 4600             | 1 69             | 53,400 20  | 44,000 18 0   | 34,400 15   |   |   |   |   |
| 170    | 4800             | 1 84             | 58,100 24  | 50,100 21 5   | 41,200 19   | 31,400 15 5   |   |   |   |
| 177    | 5000             | 2 00             | 63,000 28  | 55,700 25   | 47,300 23   | 38,400 20   |   |   |   |
| 186    | 5250             | 2 20             | 68,500 32  | 62,100 30   | 54,800 28   | 46,300 25   | 37,800 22   |   |   |
| 194    | 5500             | 2 42             | 74,200 38  | 68,500 36   | 61,500 34   | 53,800 31   | 46,100 28   | 38,100 25   |   |
| 204    | 5750             | 2 54             | 78,600 43  | 73,100 41   | 67,700 39   | 61,500 36   | 54,000 34   | 43,500 30   |   |
| 212    | 6000             | 2 87             | 84,800 52  | 79,800 49   | 74,000 47   | 67,900 44   | 61,100 41   | 54,000 38   |   |
| 221    | 6250             | 3 12             | 90,000 60  | 85,300 56   | 80,000 54   | 74,500 52   | 68,900 49   | 61,800 46   | 46,600 35   |
| 230    | 6500             | 3 38             | 94,600 68  | 90,600 66   | 85,400 62   | 81,000 60   | 75,400 56   | 69,000 54   | 62,600 50   |
| 239    | 6750             | 3 63             | 99,100 76  | 95,700 74   | 91,100 70   | 86,500 68   | 81,500 66   | 75,600 62   | 70,000 60   |
| 248    | 7000             | 3 91             | 104,000 86   | 101,000 84  | 96,500 80   | 92,000 78   | 87,500 74   | 82,500 72   | 76,500 68   |
| 266    | 7500             | 4 50             | 113,000 110  | 110,000 105   | 107,000 100   | 103,000 98  | 99,100 96   | 94,600 94   | 90,000 90   |
| 283    | 8000             | 5 11             |  | 119,000 130   | 117,000 125   | 113,000 125   | 110,000 120   | 106,000 115   | 102,000 115   |
| 301    | 8500             | 5 76             |  | 128,000 160   | 126,000 155   | 122,000 150   | 120,000 145   | 117,000 145   | 113,000 140   |
| 319    | 9000             | 6 46             |  | 137,000 190   | 135,000 185   | 133,000 185   | 130,000 180   | 127,000 175   | 124,000 170   |
| 336    | 9500             | 7 20             |  |   | 144,000 220   | 142,000 220   | 139,000 215   | 137,000 210   | 135,000 205   |
| 354    | 10000            | 7 98             |  |   | 153,000 260   | 151,000 255   | 148,000 250   | 146,000 250   | 144,000 245   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 2 1/2" Water 1.59 ozs. per sq. inch                    | Static Pressure 3" Water 1.73 ozs. per sq. inch                       | Static Pressure 3 1/2" Water 2.02 ozs. per sq. inch                   | Static Pressure 4" Water 2.31 ozs. per sq. inch                         | Static Pressure 5" Water 2.89 ozs. per sq. inch                         | Static Pressure 6" Water 3.47 ozs. per sq. inch                     | Static Pressure 7" Water 4.05 ozs. per sq. inch                         |
| 221    | 6250             | 3 12             | 47,600 39  |   |   |   |   |   |   |
| 230    | 6500             | 3 38             | 55,700 47  | 48,700 43   |   |   |   |   |   |
| 239    | 6750             | 3 63             | 63,100 56  | 56,900 52   |   |   |   |   |   |
| 248    | 7000             | 3 91             | 70,800 66  | 65,200 62   | 52,000 54   |   |   |   |   |
| 266    | 7500             | 4 50             | 85,000 86  | 79,500 84   | 67,900 74   | 56,100 66   |   |   |   |
| 283    | 8000             | 5 11             | 97,700 110   | 93,000 105  | 83,000 100  | 72,100 90   | 49,400 70   |   |   |
| 301    | 8500             | 5 76             | 110,000 135  | 106,000 135   | 96,500 125  | 86,800 115  | 66,100 98   |   |   |
| 319    | 9000             | 6 46             | 121,000 165  | 117,000 165   | 109,000 155   | 101,000 150   | 82,100 130  | 62,400 110  |   |
| 336    | 9500             | 7 20             | 132,000 200  | 128,000 200   | 122,000 190   | 114,000 180   | 96,900 165  | 78,900 145  | 59,500 120  |
| 354    | 10000            | 7 98             | 142,000 240  | 139,000 235   | 133,000 225   | 126,000 220   | 111,000 200   | 94,500 180  | 76,500 160  |

Single Inlet

## 200" Steel Plate Fan—Design 1

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.                                       | H. P.   | Volume C.F.M.                                       | H. P.   | Volume C.F.M.                                       | H. P.   | Volume C.F.M.                                       | H. P.   | Volume C.F.M. | H. P. | Volume C.F.M. | H. P. | Volume C.F.M. | H. P. |
|--------|------------------|------------------|---|---|---|---|---|---|---|---|---------------|-------|---------------|-------|---------------|-------|
|        |                  |                  | Static Pressure 1/2" Water .0722 ozs. per sq. inch  | Static Pressure 1/2" Water .145 ozs. per sq. inch   | Static Pressure 3/4" Water .217 ozs. per sq. inch   | Static Pressure 1" Water .289 ozs. per sq. inch     | Static Pressure 1 1/4" Water .361 ozs. per sq. inch | Static Pressure 1 1/2" Water .434 ozs. per sq. inch | Static Pressure 1 3/4" Water .506 ozs. per sq. inch |   |               |       |               |       |               |       |
| 44     | 1400             | 0.157            | 16,400  | 0.64  |   |   |   |   |   |   |               |       |               |       |               |       |
| 51     | 1600             | 0.205            | 24,000  | 1.10  |   |   |   |   |   |   |               |       |               |       |               |       |
| 57     | 1800             | 0.259            | 30,600  | 1.70  | 15,200  | 1.10  |   |   |   |   |               |       |               |       |               |       |
| 64     | 2000             | 0.320            | 36,400  | 2.50  | 24,000  | 1.75  |   |   |   |   |               |       |               |       |               |       |
| 70     | 2200             | 0.387            | 42,000  | 3.45  | 31,900  | 2.85  | 18,400  | 2.00  |   |   |               |       |               |       |               |       |
| 76     | 2400             | 0.460            | 46,800  | 4.6   | 38,600  | 3.9   | 27,400  | 3.15  |   |   |               |       |               |       |               |       |
| 83     | 2600             | 0.540            | 51,600  | 5.9   | 44,900  | 5.2   | 35,200  | 4.45  | 24,000  | 3.85  |               |       |               |       |               |       |
| 89     | 2800             | 0.626            | 56,400  | 7.5   | 50,900  | 6.8   | 42,500  | 6.0   | 32,700  | 5.1   |               |       |               |       |               |       |
| 95     | 3000             | 0.718            | 61,000  | 9.4   | 56,400  | 8.6   | 49,300  | 7.8   | 40,500  | 6.8   | 31,000        | 5.8   |               |       |               |       |
| 102    | 3200             | 0.816            | 65,300  | 11.5  | 61,600  | 10.5  | 55,400  | 9.8   | 48,000  | 8.9   | 39,300        | 7.8   | 29,800        | 6.5   |               |       |
| 108    | 3400             | 0.922            | 69,900  | 14.0  | 66,500  | 13.0  | 61,500  | 12.0  | 55,000  | 11.0  | 47,100        | 10.0  | 37,000        | 8.7   | 29,600        | 7.4   |
| 115    | 3600             | 1.03             | 74,100  | 17.0  | 70,900  | 15.5  | 66,900  | 14.5  | 61,100  | 13.5  | 54,500        | 13.0  | 46,200        | 11.5  | 38,800        | 10.0  |
| 121    | 3800             | 1.15             | 78,900  | 19.5  | 76,000  | 19  | 72,400  | 17.5  | 67,000  | 16.5  | 61,100        | 15.5  | 54,100        | 14.5  | 47,000        | 13.0  |
| 127    | 4000             | 1.28             | 83,100  | 23  |   |   | 77,600  | 21  | 73,000  | 20.0  | 67,800        | 19.0  | 61,800        | 17.5  | 55,100        | 16.5  |
| 134    | 4200             | 1.41             | 87,600  | 27  |   |   | 82,500  | 25  | 78,500  | 23.5  | 74,200        | 22.5  | 68,400        | 21.5  | 62,500        | 20    |
| 140    | 4400             | 1.54             | 92,000  | 31  |   |   | 87,000  | 29  | 83,700  | 28  | 80,000        | 26    | 74,700        | 25    | 69,000        | 24    |
| 146    | 4600             | 1.69             | 96,400  | 35  |   |   | 92,000  | 33  | 89,300  | 33  | 86,000        | 31    | 80,700        | 29    | 76,100        | 28    |
| 153    | 4800             | 1.84             | 100,000   | 40  |   |   | 96,400  | 38  | 94,000  | 37  | 90,500        | 36    | 86,500        | 34    | 82,200        | 33    |
| 159    | 5000             | 2.00             | 105,000   | 45  |   |   |   |   | 98,500  | 42  | 95,800        | 41    | 92,500        | 39    | 88,000        | 38    |
| 167    | 5250             | 2.20             | 113,000   | 54  |   |   |   |   | 105,000   | 49  | 102,000       | 48    | 99,200        | 46    | 95,400        | 45    |
| 175    | 5500             | 2.42             | 116,000   | 60  |   |   |   |   | 111,000   | 58  | 108,000       | 56    | 105,000       | 54    | 102,000       | 52    |
| 183    | 5750             | 2.54             | 121,000   | 66  |   |   |   |   |   |   | 113,000       | 62    | 111,000       | 60    | 108,000       | 58    |
| 191    | 6000             | 2.87             | 127,000   | 78  |   |   |   |   |   |   | 119,000       | 74    | 118,000       | 72    | 115,000       | 70    |
| 199    | 6250             | 3.12             | 132,000   | 90  |   |   |   |   |   |   | 124,000       | 82    | 124,000       | 82    | 121,000       | 80    |
| 207    | 6500             | 3.38             | 137,000   | 100   |   |   |   |   |   |   | 130,000       | 94    |               |       | 128,000       | 92    |
| 215    | 6750             | 3.63             | 143,000   | 115   |   |   |   |   |   |   |               |       |               |       | 134,000       | 105   |
| 223    | 7000             | 3.91             | 148,000   | 125   |   |   |   |   |   |   |               |       |               |       | 140,000       | 115   |
| 239    | 7500             | 4.50             | 159,000   | 155   |   |   |   |   |   |   |               |       |               |       |               |       |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 ozs. per sq. inch     | Static Pressure 1 1/4" Water .723 ozs. per sq. inch | Static Pressure 1 1/2" Water .878 ozs. per sq. inch | Static Pressure 1 3/4" Water 1.01 ozs. per sq. inch | Static Pressure 2" Water 1.16 ozs. per sq. inch     | Static Pressure 2 1/4" Water 1.30 ozs. per sq. inch | Static Pressure 2 1/2" Water 1.45 ozs. per sq. inch |   |               |       |               |       |               |       |
| 115    | 3600             | 1.03             | 30,200  | 8.7   |   |   |   |   |   |   |               |       |               |       |               |       |
| 121    | 3800             | 1.15             | 39,300  | 11.5  |   |   |   |   |   |   |               |       |               |       |               |       |
| 127    | 4000             | 1.28             | 48,000  | 15.0  | 33,000  | 13.0  |   |   |   |   |               |       |               |       |               |       |
| 134    | 4200             | 1.41             | 55,800  | 18.5  | 42,000  | 15.5  |   |   |   |   |               |       |               |       |               |       |
| 140    | 4400             | 1.54             | 63,100  | 22.5  | 50,100  | 19.5  | 36,400  | 15.5  |   |   |               |       |               |       |               |       |
| 146    | 4600             | 1.69             | 70,900  | 26  | 58,500  | 24  | 45,800  | 20  |   |   |               |       |               |       |               |       |
| 153    | 4800             | 1.84             | 77,100  | 31  | 66,500  | 28  | 54,700  | 25  | 41,000  | 20.5  |               |       |               |       |               |       |
| 159    | 5000             | 2.00             | 83,700  | 37  | 74,000  | 34  | 62,900  | 30  | 50,900  | 26  |               |       |               |       |               |       |
| 167    | 5250             | 2.20             | 91,000  | 43  | 82,600  | 40  | 72,700  | 37  | 61,500  | 33  | 50,100        | 29    |               |       |               |       |
| 175    | 5500             | 2.42             | 98,500  | 52  | 91,000  | 48  | 81,600  | 45  | 71,500  | 41  | 61,300        | 37    | 50,500        | 33    |               |       |
| 183    | 5750             | 2.54             | 105,000   | 56  | 97,300  | 54  | 90,000  | 52  | 81,000  | 48  | 71,800        | 45    | 57,600        | 40    |               |       |
| 191    | 6000             | 2.87             | 113,000   | 68  | 108,000   | 66  | 98,400  | 62  | 90,000  | 58  | 81,000        | 54    | 71,900        | 50    | 61,900        | 46    |
| 199    | 6250             | 3.12             | 120,000   | 80  | 113,000   | 76  | 106,000   | 72  | 98,900  | 68  | 91,500        | 64    | 82,000        | 60    | 72,700        | 56    |
| 207    | 6500             | 3.38             | 126,000   | 90  | 120,000   | 86  | 113,000   | 82  | 107,000   | 80  | 100,000       | 74    | 91,500        | 72    | 83,100        | 68    |
| 215    | 6750             | 3.63             | 132,000   | 100   | 127,000   | 98  | 121,000   | 94  | 115,000   | 90  | 108,000       | 88    | 100,000       | 82    | 93,000        | 80    |
| 223    | 7000             | 3.91             | 138,000   | 115   | 134,000   | 110   | 128,000   | 105   | 122,000   | 105   | 116,000       | 100   | 109,000       | 96    | 102,000       | 92    |
| 239    | 7500             | 4.50             | 150,000   | 145   | 146,000   | 140   | 142,000   | 135   | 137,000   | 130   | 132,000       | 125   | 126,000       | 125   | 120,000       | 115   |
| 255    | 8000             | 5.11             |   |   | 158,000   | 175   | 155,000   | 170   | 151,000   | 165   | 146,000       | 160   | 141,000       | 155   | 136,000       | 150   |
| 271    | 8500             | 5.76             |   |   | 170,000   | 210   | 167,000   | 205   | 163,000   | 200   | 159,000       | 195   | 155,000       | 190   | 150,000       | 185   |
| 287    | 9000             | 6.46             |   |   | 182,000   | 250   | 179,000   | 245   | 176,000   | 240   | 172,000       | 235   | 169,000       | 230   | 164,000       | 225   |
| 303    | 9500             | 7.20             |   |   |   |   | 191,000   | 295   | 188,000   | 290   | 185,000       | 285   | 182,000       | 280   | 179,000       | 275   |
| 319    | 10000            | 7.98             |   |   |   |   | 203,000   | 345   | 200,000   | 340   | 197,000       | 335   | 194,000       | 330   | 191,000       | 325   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 2 1/4" Water 1.59 ozs. per sq. inch | Static Pressure 2 1/2" Water 1.73 ozs. per sq. inch | Static Pressure 2 3/4" Water 2.02 ozs. per sq. inch | Static Pressure 3" Water 2.31 ozs. per sq. inch     | Static Pressure 3 1/4" Water 2.59 ozs. per sq. inch | Static Pressure 3 1/2" Water 2.89 ozs. per sq. inch | Static Pressure 3 3/4" Water 3.47 ozs. per sq. inch | Static Pressure 4" Water 4.05 ozs. per sq. inch |               |       |               |       |               |       |
| 199    | 6250             | 3.12             | 63,200  | 52  |   |   |   |   |   |   |               |       |               |       |               |       |
| 207    | 6500             | 3.38             | 73,900  | 62  | 64,600  | 56  |   |   |   |   |               |       |               |       |               |       |
| 215    | 6750             | 3.63             | 83,700  | 74  | 75,500  | 68  |   |   |   |   |               |       |               |       |               |       |
| 223    | 7000             | 3.91             | 94,000  | 86  | 86,500  | 82  | 69,000  | 70  |   |   |               |       |               |       |               |       |
| 239    | 7500             | 4.50             | 113,000   | 115   | 106,000   | 110   | 90,100  | 100   | 74,500  | 88  |               |       |               |       |               |       |
| 255    | 8000             | 5.11             | 130,000   | 145   | 124,000   | 140   | 110,000   | 130   | 95,800  | 120   | 65,500        | 94    |               |       |               |       |
| 271    | 8500             | 5.76             | 146,000   | 180   | 140,000   | 175   | 128,000   | 170   | 115,000   | 155   | 87,700        | 130   |               |       |               |       |
| 287    | 9000             | 6.46             | 161,000   | 220   | 155,000   | 215   | 145,000   | 205   | 134,000   | 195   | 109,000       | 170   |               |       |               |       |
| 303    | 9500             | 7.20             | 174,000   | 270   | 170,000   | 260   | 161,000   | 250   | 151,000   | 240   | 129,000       | 215   | 82,900        | 145   | 79,000        | 160   |
| 319    | 10000            | 7.98             | 188,000   | 320   | 184,000   | 310   | 176,000   | 300   | 168,000   | 290   | 148,000       | 270   | 125,000       | 240   | 102,000       | 210   |

Single Inlet

**220" Steel Plate Fan—Design 1**

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                   | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. |
|--------|------------------|------------------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|
|        |                  |                  | Static Pressure 1" Water .0722 ozs. per sq. inch    |       | Static Pressure 1 1/4" Water .145 ozs. per sq. inch |       | Static Pressure 1 1/2" Water .217 ozs. per sq. inch |       | Static Pressure 1 3/4" Water .289 ozs. per sq. inch |       | Static Pressure 2" Water .361 ozs. per sq. inch |       | Static Pressure 2 1/4" Water .434 ozs. per sq. inch |       | Static Pressure 2 1/2" Water .506 ozs. per sq. inch |       |
| 40     | 1400             | 0 157            | 20,100  | 0 80  |   |       |   |       |   |       |   |       |   |       |   |       |
| 46     | 1600             | 0 205            | 30,000  | 1 10  |   |       |   |       |   |       |   |       |   |       |   |       |
| 52     | 1800             | 0 259            | 38,200  | 2 15  | 19,000  | 1 35  |   |       |   |       |   |       |   |       |   |       |
| 58     | 2000             | 0 320            | 45,600  | 3 10  | 30,000  | 2 20  |   |       |   |       |   |       |   |       |   |       |
| 64     | 2200             | 0 387            | 52,500  | 4 35  | 39,800  | 3 55  | 23,000  | 2 45  |   |       |   |       |   |       |   |       |
| 69     | 2400             | 0 460            | 58,500  | 5 7   | 48,200  | 4 9   | 34,200  | 3 35  |   |       |   |       |   |       |   |       |
| 75     | 2600             | 0 540            | 64,600  | 7 4   | 56,000  | 6 5   | 44,000  | 5 6   | 30,000  | 4 8   |   |       |   |       |   |       |
| 81     | 2800             | 0 626            | 70,500  | 9 1   | 63,600  | 8 5   | 53,100  | 7 5   | 40,900  | 6 3   |   |       |   |       |   |       |
| 87     | 3000             | 0 718            | 76,200  | 11 5  | 70,500  | 11 0  | 61,600  | 9 7   | 50,700  | 8 5   | 38,800  | 7 2   |   |       |   |       |
| 93     | 3200             | 0 816            | 81,600  | 14 5  | 77,000  | 13 5  | 69,200  | 12 0  | 60,000  | 11 0  | 49,100  | 9 8   | 37,300  | 8 1   |   |       |
| 98     | 3400             | 0 922            | 87,500  | 17 5  | 83,100  | 16 5  | 76,900  | 15 0  | 68,700  | 11 0  | 58,900  | 12 5  | 47,300  | 11    | 37,100  | 9 3   |
| 104    | 3600             | 1 03             | 92,900  | 21 0  | 88,500  | 19 5  | 83,600  | 18 5  | 76,400  | 17 0  | 68,100  | 16 0  | 57,700  | 14    | 48,500  | 13 0  |
| 110    | 3800             | 1 15             | 98,500  | 24 5  | 95,100  | 23 5  | 90,500  | 22    | 83,700  | 20 5  | 76,400  | 19 5  | 67,700  | 18    | 58,700  | 16 5  |
| 116    | 4000             | 1 28             | 104,000   | 29    |   |       | 97,000  | 26    | 91,300  | 25    | 84,700  | 23 5  | 77,300  | 22    | 69,000  | 20 5  |
| 121    | 4200             | 1 41             | 110,000   | 34    |   |       | 103,000   | 31    | 98,300  | 30    | 92,900  | 28    | 85,500  | 27    | 78,100  | 25    |
| 127    | 4400             | 1 54             | 115,000   | 38    |   |       | 109,000   | 36    | 105,000   | 34    | 100,000   | 33    | 93,500  | 31    | 86,100  | 30    |
| 133    | 4600             | 1 69             | 121,000   | 44    |   |       | 115,000   | 42    | 112,000   | 41    | 107,000   | 39    | 101,000   | 37    | 95,400  | 35    |
| 139    | 4800             | 1 84             | 126,000   | 50    |   |       | 121,000   | 47    | 118,000   | 46    | 113,000   | 44    | 108,000   | 43    | 103,000   | 41    |
| 145    | 5000             | 2 00             | 131,000   | 56    |   |       |   |       | 123,000   | 52    | 120,000   | 52    | 116,000   | 49    | 110,000   | 47    |
| 152    | 5250             | 2 20             | 138,000   | 66    |   |       |   |       | 131,000   | 62    | 127,000   | 60    | 124,000   | 58    | 119,000   | 56    |
| 159    | 5500             | 2 42             | 145,000   | 76    |   |       |   |       | 138,000   | 72    | 136,000   | 70    | 132,000   | 68    | 128,000   | 66    |
| 166    | 5750             | 2 54             | 151,000   | 82    |   |       |   |       |   |       | 142,000   | 78    | 139,000   | 76    | 135,000   | 72    |
| 174    | 6000             | 2 87             | 158,000   | 98    |   |       |   |       |   |       | 149,000   | 92    | 147,000   | 90    | 144,000   | 88    |
| 181    | 6250             | 3 12             | 165,000   | 110   |   |       |   |       |   |       |   |       | 155,000   | 105   | 151,000   | 100   |
| 188    | 6500             | 3 38             | 171,000   | 125   |   |       |   |       |   |       |   |       | 163,000   | 120   | 160,000   | 115   |
| 195    | 6750             | 3 63             | 178,000   | 140   |   |       |   |       |   |       |   |       |   |       | 167,000   | 130   |
| 202    | 7000             | 3 91             | 185,000   | 155   |   |       |   |       |   |       |   |       |   |       | 175,000   | 145   |
| 217    | 7500             | 4 50             | 198,000   | 195   |   |       |   |       |   |       |   |       |   |       |   |       |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 ozs. per sq. inch     |       | Static Pressure 1 1/4" Water .723 ozs. per sq. inch |       | Static Pressure 1 1/2" Water .878 ozs. per sq. inch |       | Static Pressure 1 3/4" Water 1.01 ozs. per sq. inch |       | Static Pressure 2" Water 1.16 ozs. per sq. inch |       | Static Pressure 2 1/4" Water 1.30 ozs. per sq. inch |       | Static Pressure 2 1/2" Water 1.45 ozs. per sq. inch |       |
| 104    | 3600             | 1 03             | 37,800  | 11 0  |   |       |   |       |   |       |   |       |   |       |   |       |
| 110    | 3800             | 1 15             | 49,100  | 14 5  |   |       |   |       |   |       |   |       |   |       |   |       |
| 116    | 4000             | 1 28             | 60,000  | 19    | 41,300  | 16 0  |   |       |   |       |   |       |   |       |   |       |
| 121    | 4200             | 1 41             | 69,700  | 23    | 52,600  | 19 5  |   |       |   |       |   |       |   |       |   |       |
| 127    | 4400             | 1 54             | 79,000  | 28    | 62,600  | 21    | 45,600  | 19 5  |   |       |   |       |   |       |   |       |
| 133    | 4600             | 1 69             | 88,600  | 33    | 73,000  | 30    | 57,100  | 25    |   |       |   |       |   |       |   |       |
| 139    | 4800             | 1 84             | 96,500  | 39    | 83,100  | 36    | 68,400  | 32    | 52,100  | 26    |   |       |   |       |   |       |
| 145    | 5000             | 2 00             | 105,000   | 46    | 92,400  | 42    | 78,500  | 38    | 63,700  | 33    |   |       |   |       |   |       |
| 152    | 5250             | 2 20             | 114,000   | 54    | 103,000   | 50    | 90,900  | 47    | 76,900  | 42    | 62,600  | 36    |   |       |   |       |
| 159    | 5500             | 2 42             | 123,000   | 64    | 114,000   | 60    | 102,000   | 56    | 89,400  | 52    | 76,600  | 47    | 63,100  | 41    |   |       |
| 166    | 5750             | 2 54             | 131,000   | 70    | 122,000   | 68    | 112,000   | 64    | 102,000   | 60    | 89,700  | 56    | 72,000  | 50    |   |       |
| 174    | 6000             | 2 87             | 141,000   | 86    | 132,000   | 82    | 123,000   | 78    | 113,000   | 74    | 101,000   | 68    | 89,700  | 64    | 77,400  | 58    |
| 181    | 6250             | 3 12             | 149,000   | 100   | 142,000   | 94    | 133,000   | 90    | 124,000   | 86    | 114,000   | 80    | 102,000   | 76    | 90,900  | 70    |
| 188    | 6500             | 3 38             | 157,000   | 115   | 151,000   | 110   | 142,000   | 105   | 135,000   | 100   | 125,000   | 94    | 114,000   | 90    | 104,000   | 84    |
| 195    | 6750             | 3 63             | 165,000   | 130   | 159,000   | 125   | 151,000   | 115   | 144,000   | 115   | 135,000   | 110   | 126,000   | 105   | 116,000   | 98    |
| 202    | 7000             | 3 91             | 173,000   | 145   | 167,000   | 140   | 160,000   | 135   | 153,000   | 130   | 145,000   | 125   | 137,000   | 120   | 127,000   | 115   |
| 217    | 7500             | 4 50             | 187,000   | 180   | 183,000   | 175   | 177,000   | 170   | 171,000   | 165   | 165,000   | 160   | 157,000   | 155   | 150,000   | 150   |
| 231    | 8000             | 5 11             |   |       | 198,000   | 215   | 194,000   | 210   | 188,000   | 205   | 183,000   | 200   | 176,000   | 195   | 170,000   | 190   |
| 246    | 8500             | 5 76             |   |       | 213,000   | 260   | 209,000   | 255   | 203,000   | 250   | 200,000   | 245   | 194,000   | 240   | 188,000   | 230   |
| 260    | 9000             | 6 46             |   |       | 227,000   | 315   | 223,000   | 310   | 220,000   | 305   | 216,000   | 295   | 211,000   | 290   | 206,000   | 285   |
| 274    | 9500             | 7 20             |   |       |   |       | 239,000   | 370   | 235,000   | 360   | 231,000   | 355   | 227,000   | 350   | 223,000   | 340   |
| 289    | 10000            | 7 98             |   |       |   |       | 254,000   | 435   | 250,000   | 425   | 246,000   | 420   | 243,000   | 415   | 239,000   | 405   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 2 1/2" Water 1.59 ozs. per sq. inch |       | Static Pressure 3" Water 1.73 ozs. per sq. inch     |       | Static Pressure 3 1/4" Water 2.02 ozs. per sq. inch |       | Static Pressure 3 1/2" Water 2.31 ozs. per sq. inch |       | Static Pressure 4" Water 2.69 ozs. per sq. inch |       | Static Pressure 5" Water 3.47 ozs. per sq. inch     |       | Static Pressure 6" Water 4.05 ozs. per sq. inch     |       |
| 181    | 6250             | 3 12             | 79,000  | 64    |   |       |   |       |   |       |   |       |   |       |   |       |
| 188    | 6500             | 3 38             | 92,500  | 78    | 80,000  | 72    |   |       |   |       |   |       |   |       |   |       |
| 195    | 6750             | 3 63             | 105,000   | 92    | 94,400  | 86    |   |       |   |       |   |       |   |       |   |       |
| 202    | 7000             | 3 91             | 118,000   | 110   | 108,000   | 105   | 86,300  | 88    |   |       |   |       |   |       |   |       |
| 217    | 7500             | 4 50             | 141,000   | 145   | 132,000   | 140   | 113,000   | 125   | 93,100  | 110   |   |       |   |       |   |       |
| 231    | 8000             | 5 11             | 162,000   | 185   | 154,000   | 180   | 138,000   | 165   | 120,000   | 150   | 82,000  | 115   |   |       |   |       |
| 246    | 8500             | 5 76             | 183,000   | 225   | 175,000   | 220   | 160,000   | 210   | 144,000   | 195   | 110,000   | 165   |   |       |   |       |
| 260    | 9000             | 6 46             | 201,000   | 280   | 194,000   | 270   | 182,000   | 260   | 167,000   | 245   | 136,000   | 215   | 104,000   | 180   |   |       |
| 274    | 9500             | 7 20             | 218,000   | 335   | 212,000   | 330   | 202,000   | 315   | 189,000   | 300   | 161,000   | 270   | 131,000   | 240   | 98,900  | 195   |
| 289    | 10000            | 7 98             | 235,000   | 400   | 230,000   | 390   | 220,000   | 375   | 209,000   | 365   | 185,000   | 335   | 157,000   | 300   | 127,000   | 265   |

Single Inlet

**240" Steel Plate Fan—Design 1**

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.<br>Static Pressure<br>1/4" Water<br>.0722 ozs. per sq. inch | H. P.   | Volume C.F.M.<br>Static Pressure<br>1/4" Water<br>.145 ozs. per sq. inch | H. P.   | Volume C.F.M.<br>Static Pressure<br>3/4" Water<br>.217 ozs. per sq. inch | H. P.   | Volume C.F.M.<br>Static Pressure<br>1 1/2" Water<br>.289 ozs. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure<br>2" Water<br>.361 ozs. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure<br>3" Water<br>.434 ozs. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure<br>3 1/2" Water<br>.506 ozs. per sq. inch | H. P. |
|--------|------------------|------------------|---|---|--|---|--|---|--|-------|--|-------|--|-------|--|-------|
| 37     | 1400             | 0 157            | 22,800  | 0 89  |  |   |  |   |  |       |  |       |  |       |  |       |
| 42     | 1600             | 0 205            | 33,500  | 1 55  |  |   |  |   |  |       |  |       |  |       |  |       |
| 48     | 1800             | 0 259            | 42,600  | 2 40  | 21,200   | 1 50  |  |   |  |       |  |       |  |       |  |       |
| 53     | 2000             | 0 320            | 50,800  | 3 45  | 33,500   | 2 45  |  |   |  |       |  |       |  |       |  |       |
| 58     | 2200             | 0 387            | 58,500  | 4 85  | 44,400   | 3 95  | 25,700   | 2 75  |  |       |  |       |  |       |  |       |
| 63     | 2400             | 0 460            | 65,200  | 6 4   | 53,800   | 5 5   | 38,100   | 4 4   |  |       |  |       |  |       |  |       |
| 69     | 2600             | 0 510            | 72,000  | 8 3   | 62,500   | 7 3   | 49,000   | 6 2   | 33,500   | 5 4   |  |       |  |       |  |       |
| 74     | 2800             | 0 626            | 78,500  | 10 5  | 71,000   | 9 5   | 59,200   | 8 4   | 45,500   | 7 1   |  |       |  |       |  |       |
| 79     | 3000             | 0 718            | 85,100  | 13 0  | 78,500   | 12  | 68,600   | 11 0  | 56,500   | 9 5   | 43,200   | 8 0   |  |       |  |       |
| 85     | 3200             | 0 816            | 91,000  | 16 0  | 85,900   | 15  | 77,100   | 13 5  | 67,000   | 12 5  | 54,800   | 11 0  | 41,500   | 9 1   |  |       |
| 90     | 3400             | 0 922            | 97,400  | 19 5  | 92,600   | 18  | 85,700   | 17 0  | 76,600   | 15 5  | 65,600   | 14 0  | 52,800   | 12 0  | 41,300   | 10 5  |
| 96     | 3600             | 1 03             | 104,000   | 23 5  | 98,600   | 22  | 93,000   | 20 5  | 85,200   | 19    | 76,000   | 18 0  | 64,400   | 16 0  | 54,000   | 14 5  |
| 100    | 3800             | 1 15             | 110,000   | 27  | 106,000  | 26  | 101,000  | 24 5  | 93,300   | 23    | 85,100   | 21 5  | 75,500   | 20 0  | 65,400   | 18 5  |
| 106    | 4000             | 1 28             | 116,000   | 32  |  |   | 108,000  | 29  | 102,000  | 28    | 94,400   | 26    | 86,000   | 24 5  | 76,800   | 23    |
| 111    | 4200             | 1 41             | 122,000   | 37  |  |   | 115,000  | 35  | 109,000  | 33    | 103,000  | 31    | 95,200   | 30    | 87,000   | 28    |
| 117    | 4400             | 1 54             | 128,000   | 43  |  |   | 121,000  | 40  | 117,000  | 38    | 112,000  | 37    | 104,000  | 35    | 96,000   | 33    |
| 122    | 4600             | 1 69             | 134,000   | 48  |  |   | 128,000  | 46  | 124,000  | 45    | 120,000  | 43    | 112,000  | 41    | 106,000  | 39    |
| 127    | 4800             | 1 84             | 140,000   | 56  |  |   | 134,000  | 52  | 131,000  | 52    | 126,000  | 50    | 121,000  | 47    | 115,000  | 45    |
| 132    | 5000             | 2 00             | 146,000   | 62  |  |   |  |   | 137,000  | 58    | 133,000  | 56    | 129,000  | 54    | 123,000  | 52    |
| 139    | 5250             | 2 20             | 154,000   | 74  |  |   |  |   | 146,000  | 68    | 142,000  | 66    | 138,000  | 64    | 133,000  | 62    |
| 146    | 5500             | 2 42             | 161,000   | 84  |  |   |  |   | 151,000  | 80    | 151,000  | 78    | 147,000  | 76    | 143,000  | 74    |
| 153    | 5750             | 2 54             | 168,000   | 92  |  |   |  |   |  |       | 158,000  | 86    | 155,000  | 84    | 151,000  | 82    |
| 159    | 6000             | 2 87             | 176,000   | 110   |  |   |  |   |  |       | 166,000  | 100   | 164,000  | 100   | 161,000  | 98    |
| 166    | 6250             | 3 12             | 183,000   | 125   |  |   |  |   |  |       |  |       | 173,000  | 115   | 168,000  | 115   |
| 172    | 6500             | 3 38             | 191,000   | 140   |  |   |  |   |  |       |  |       | 181,000  | 130   | 178,000  | 130   |
| 179    | 6750             | 3 63             | 199,000   | 155   |  |   |  |   |  |       |  |       |  |       | 186,000  | 145   |
| 185    | 7000             | 3 91             | 206,000   | 175   |  |   |  |   |  |       |  |       |  |       | 195,000  | 165   |
| 199    | 7500             | 4 50             | 221,000   | 215   |  |   |  |   |  |       |  |       |  |       |  |       |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure<br>1" Water<br>.578 ozs. per sq. inch                     | Static Pressure<br>1 1/4" Water<br>.723 ozs. per sq. inch | Static Pressure<br>1 1/2" Water<br>.878 ozs. per sq. inch                | Static Pressure<br>1 3/4" Water<br>1.01 ozs. per sq. inch | Static Pressure<br>2" Water<br>1.16 ozs. per sq. inch                    | Static Pressure<br>2 1/2" Water<br>1.30 ozs. per sq. inch | Static Pressure<br>3" Water<br>1.45 ozs. per sq. inch                      |       |  |       |  |       |  |       |
| 96     | 3600             | 1 03             | 42,100  | 12  |  |   |  |   |  |       |  |       |  |       |  |       |
| 100    | 3800             | 1 15             | 54,700  | 16  |  |   |  |   |  |       |  |       |  |       |  |       |
| 106    | 4000             | 1 28             | 67,000  | 21  | 46,000   | 18 0  |  |   |  |       |  |       |  |       |  |       |
| 111    | 4200             | 1 41             | 77,700  | 26  | 58,600   | 21 5  |  |   |  |       |  |       |  |       |  |       |
| 117    | 4400             | 1 54             | 88,000  | 31  | 69,900   | 27  | 50,800   | 21 5  |  |       |  |       |  |       |  |       |
| 122    | 4600             | 1 69             | 98,600  | 37  | 81,400   | 33  | 63,800   | 28  |  |       |  |       |  |       |  |       |
| 127    | 4800             | 1 84             | 108,000   | 44  | 92,800   | 40  | 76,200   | 35  | 58,000   | 29    |  |       |  |       |  |       |
| 132    | 5000             | 2 00             | 117,000   | 52  | 103,000  | 47  | 87,500   | 42  | 71,000   | 37    |  |       |  |       |  |       |
| 139    | 5250             | 2 20             | 127,000   | 60  | 115,000  | 56  | 101,000  | 52  | 85,600   | 47    | 69,900   | 41    |  |       |  |       |
| 146    | 5500             | 2 42             | 137,000   | 72  | 127,000  | 68  | 114,000  | 62  | 99,500   | 58    | 85,500   | 52    | 70,500   | 46    |  |       |
| 153    | 5750             | 2 54             | 146,000   | 80  | 136,000  | 76  | 125,000  | 72  | 114,000  | 68    | 100,000  | 62    | 80,400   | 56    |  |       |
| 159    | 6000             | 2 87             | 157,000   | 96  | 148,000  | 90  | 137,000  | 86  | 126,000  | 82    | 113,000  | 76    | 100,000  | 70    | 86,200   | 64    |
| 166    | 6250             | 3 12             | 167,000   | 110   | 158,000  | 105   | 148,000  | 100   | 138,000  | 96    | 127,000  | 90    | 114,000  | 84    | 101,000  | 78    |
| 172    | 6500             | 3 38             | 175,000   | 125   | 168,000  | 120   | 158,000  | 115   | 150,000  | 110   | 139,000  | 105   | 128,000  | 100   | 116,000  | 94    |
| 179    | 6750             | 3 63             | 184,000   | 145   | 177,000  | 135   | 169,000  | 130   | 160,000  | 125   | 151,000  | 120   | 140,000  | 115   | 130,000  | 110   |
| 185    | 7000             | 3 91             | 192,000   | 160   | 186,000  | 155   | 179,000  | 150   | 170,000  | 145   | 162,000  | 140   | 153,000  | 135   | 142,000  | 125   |
| 199    | 7500             | 4 50             | 209,000   | 210   | 204,000  | 195   | 197,000  | 180   | 190,000  | 185   | 183,000  | 180   | 175,000  | 175   | 167,000  | 165   |
| 212    | 8000             | 5 11             |   | 240   | 221,000  | 240   | 216,000  | 235   | 210,000  | 230   | 203,000  | 220   | 196,000  | 215   | 189,000  | 210   |
| 226    | 8500             | 5 76             |   | 290   | 237,000  | 290   | 233,000  | 285   | 226,000  | 280   | 222,000  | 270   | 216,000  | 265   | 209,000  | 260   |
| 239    | 9000             | 6 46             |   | 350   | 254,000  | 350   | 249,000  | 345   | 245,000  | 340   | 240,000  | 330   | 236,000  | 325   | 229,000  | 315   |
| 252    | 9500             | 7 20             |   |   |  |   | 266,000  | 410   | 262,000  | 405   | 258,000  | 395   | 253,000  | 390   | 249,000  | 380   |
| 265    | 10000            | 7 98             |   |   |  |   | 283,000  | 485   | 279,000  | 470   | 275,000  | 465   | 271,000  | 460   | 266,000  | 450   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure<br>3 1/2" Water<br>1.59 ozs. per sq. inch                 | Static Pressure<br>3" Water<br>1.73 ozs. per sq. inch     | Static Pressure<br>3 1/2" Water<br>2.02 ozs. per sq. inch                | Static Pressure<br>4" Water<br>2.31 ozs. per sq. inch     | Static Pressure<br>5" Water<br>2.89 ozs. per sq. inch                    | Static Pressure<br>6" Water<br>3.47 ozs. per sq. inch     | Static Pressure<br>7" Water<br>4.05 ozs. per sq. inch                      |       |  |       |  |       |  |       |
| 166    | 6250             | 3 12             | 88,000  | 72  |  |   |  |   |  |       |  |       |  |       |  |       |
| 172    | 6500             | 3 38             | 103,000   | 88  | 90,100   | 80  |  |   |  |       |  |       |  |       |  |       |
| 179    | 6750             | 3 63             | 117,000   | 100   | 105,000  | 96  |  |   |  |       |  |       |  |       |  |       |
| 185    | 7000             | 3 91             | 131,000   | 120   | 121,000  | 115   | 96,100   | 98  |  |       |  |       |  |       |  |       |
| 199    | 7500             | 4 50             | 157,000   | 160   | 147,000  | 155   | 126,000  | 140   | 104,000  | 120   |  |       |  |       |  |       |
| 212    | 8000             | 5 11             | 181,000   | 205   | 172,000  | 200   | 154,000  | 185   | 133,000  | 170   | 91,400   | 130   |  |       |  |       |
| 226    | 8500             | 5 76             | 204,000   | 255   | 195,000  | 245   | 179,000  | 235   | 160,000  | 215   | 122,000  | 180   |  |       |  |       |
| 239    | 9000             | 6 46             | 224,000   | 310   | 216,000  | 300   | 202,000  | 290   | 186,000  | 275   | 152,000  | 240   | 115,000  | 200   |  |       |
| 252    | 9500             | 7 20             | 243,000   | 375   | 237,000  | 365   | 225,000  | 350   | 210,000  | 330   | 179,000  | 300   | 146,000  | 265   | 110,000  | 220   |
| 265    | 10000            | 7 98             | 263,000   | 445   | 257,000  | 435   | 245,000  | 420   | 233,000  | 405   | 206,000  | 375   | 175,000  | 335   | 142,000  | 295   |



Single Inlet

**260" Steel Plate Fan—Design 1**

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M. H. P. Static Pressure 1/2" Water .0722 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1/4" Water .145 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 3/8" Water .217 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1/2" Water .289 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 5/8" Water .361 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 3/4" Water .434 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 7/8" Water .506 ozs. per sq. inch |
|--------|------------------|------------------|--|---|---|---|---|---|---|
| 34     | 1400             | 0.157            | 26,400 1.05  |   |   |   |   |   |   |
| 39     | 1600             | 0.205            | 38,800 1.8   |   |   |   |   |   |   |
| 44     | 1800             | 0.259            | 49,400 2.9   | 24,500 1.75   |   |   |   |   |   |
| 49     | 2000             | 0.320            | 58,900 4.0   | 38,800 2.85   |   |   |   |   |   |
| 54     | 2200             | 0.387            | 67,800 5.6   | 51,500 4.6  | 29,800 3.2  |   |   |   |   |
| 59     | 2400             | 0.460            | 75,600 7.4   | 62,400 6.3  | 44,100 5.1  |   |   |   |   |
| 64     | 2600             | 0.540            | 83,100 9.6   | 72,400 8.4  | 56,900 7.2  | 38,800 6.2  |   |   |   |
| 69     | 2800             | 0.626            | 91,000 12.0  | 82,200 11.0   | 68,000 9.7  | 52,800 8.2  |   |   |   |
| 73     | 3000             | 0.718            | 98,500 15.0  | 91,000 14.0   | 79,500 12.5   | 65,500 11.0   | 50,100 9.3  |   |   |
| 78     | 3200             | 0.816            | 105,000 18.5   | 99,500 17.5   | 89,100 16.0   | 77,600 14.5   | 63,500 12.5   | 48,100 10.5   |   |
| 83     | 3400             | 0.922            | 113,000 22.5   | 107,000 21  | 99,300 19.5   | 88,800 18   | 76,100 16.5   | 61,200 14.1   | 47,900 12.0   |
| 88     | 3600             | 1.03             | 120,000 27   | 114,000 25  | 108,000 24  | 98,700 22   | 88,000 20.5   | 74,600 18.5   | 62,700 16.5   |
| 93     | 3800             | 1.15             | 127,000 32   | 123,000 30  | 117,000 29  | 108,000 27  | 98,700 25   | 87,500 23   | 75,900 21   |
| 98     | 4000             | 1.28             | 134,000 37   |   | 125,000 34  | 118,000 32  | 109,000 30  | 99,700 29   | 89,000 27   |
| 103    | 4200             | 1.41             | 142,000 43   |   | 133,000 40  | 127,000 38  | 120,000 36  | 110,000 35  | 101,000 32  |
| 108    | 4400             | 1.54             | 149,000 49   |   | 141,000 46  | 135,000 45  | 129,000 42  | 121,000 40  | 111,000 38  |
| 113    | 4600             | 1.69             | 156,000 56   |   | 149,000 54  | 144,000 52  | 139,000 50  | 130,000 47  | 123,000 46  |
| 117    | 4800             | 1.84             | 162,000 64   |   | 156,000 62  | 152,000 60  | 146,000 58  | 140,000 56  | 133,000 52  |
| 122    | 5000             | 2.00             | 170,000 72   |   |   | 159,000 68  | 155,000 66  | 149,000 64  | 142,000 60  |
| 129    | 5250             | 2.20             | 178,000 84   |   |   | 169,000 80  | 165,000 78  | 160,000 76  | 154,000 72  |
| 135    | 5500             | 2.42             | 187,000 98   |   |   | 179,000 92  | 175,000 90  | 170,000 88  | 165,000 86  |
| 141    | 5750             | 2.54             | 195,000 105  |   |   |   | 183,000 100   | 180,000 98  | 175,000 94  |
| 147    | 6000             | 2.87             | 204,000 125  |   |   |   | 192,000 120   | 191,000 115   | 187,000 115   |
| 153    | 6250             | 3.12             | 213,000 145  |   |   |   |   | 200,000 135   | 195,000 130   |
| 159    | 6500             | 3.38             | 221,000 160  |   |   |   |   | 210,000 155   | 206,000 150   |
| 165    | 6750             | 3.63             | 230,000 180  |   |   |   |   |   | 216,000 165   |
| 171    | 7000             | 3.91             | 239,000 200  |   |   |   |   |   | 226,000 190   |
| 184    | 7500             | 4.50             | 256,000 250  |   |   |   |   |   |   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 ozs. per sq. inch                        | Static Pressure 1 1/4" Water .723 ozs. per sq. inch                   | Static Pressure 1 1/2" Water .878 ozs. per sq. inch                   | Static Pressure 1 3/4" Water 1.01 ozs. per sq. inch                   | Static Pressure 2" Water 1.16 ozs. per sq. inch                       | Static Pressure 2 1/4" Water 1.30 ozs. per sq. inch                   | Static Pressure 2 1/2" Water 1.45 ozs. per sq. inch                   |
| 88     | 3600             | 1.03             | 48,900 14.0  |   |   |   |   |   |   |
| 93     | 3800             | 1.15             | 63,500 19.0  |   |   |   |   |   |   |
| 98     | 4000             | 1.28             | 77,600 24.5  | 53,400 21   |   |   |   |   |   |
| 103    | 4200             | 1.41             | 90,100 30  | 67,900 25   |   |   |   |   |   |
| 108    | 4400             | 1.54             | 102,000 36   | 81,000 31   | 58,900 25   |   |   |   |   |
| 113    | 4600             | 1.69             | 114,000 43   | 94,400 38   | 73,900 33   |   |   |   |   |
| 117    | 4800             | 1.84             | 125,000 50   | 108,000 46  | 88,300 41   | 67,400 33   |   |   |   |
| 122    | 5000             | 2.00             | 135,000 60   | 119,000 54  | 102,000 49  | 82,300 43   |   |   |   |
| 129    | 5250             | 2.20             | 147,000 70   | 133,000 66  | 117,000 60  | 99,300 54   | 81,000 47   |   |   |
| 135    | 5500             | 2.42             | 159,000 82   | 147,000 78  | 132,000 72  | 115,000 66  | 99,000 60   | 81,500 54   |   |
| 141    | 5750             | 2.54             | 169,000 92   | 157,000 88  | 145,000 84  | 132,000 78  | 116,000 72  | 93,000 64   |   |
| 147    | 6000             | 2.87             | 182,000 110  | 171,000 105   | 159,000 100   | 146,000 94  | 131,000 88  | 116,000 82  | 100,000 74  |
| 153    | 6250             | 3.12             | 193,000 130  | 183,000 120   | 172,000 115   | 160,000 110   | 148,000 105   | 132,000 98  | 117,000 90  |
| 159    | 6500             | 3.38             | 203,000 145  | 195,000 140   | 183,000 135   | 174,000 130   | 162,000 120   | 148,000 115   | 134,000 110   |
| 165    | 6750             | 3.63             | 213,000 165  | 205,000 160   | 196,000 150   | 186,000 145   | 175,000 140   | 162,000 135   | 150,000 130   |
| 171    | 7000             | 3.91             | 223,000 185  | 216,000 180   | 207,000 175   | 197,000 165   | 188,000 160   | 177,000 155   | 164,000 145   |
| 184    | 7500             | 4.50             | 242,000 235  | 236,000 225   | 229,000 220   | 221,000 210   | 212,000 205   | 203,000 200   | 193,000 195   |
| 196    | 8000             | 5.11             |  | 256,000 280   | 250,000 275   | 243,000 265   | 236,000 255   | 227,000 250   | 219,000 245   |
| 208    | 8500             | 5.76             |  | 275,000 340   | 270,000 330   | 263,000 325   | 258,000 315   | 250,000 305   | 243,000 300   |
| 220    | 9000             | 6.46             |  | 294,000 410   | 289,000 400   | 284,000 390   | 279,000 385   | 273,000 375   | 266,000 365   |
| 233    | 9500             | 7.20             |  |   | 308,000 475   | 303,000 470   | 298,000 460   | 294,000 450   | 288,000 440   |
| 245    | 10000            | 7.98             |  |   | 328,000 500   | 323,000 545   | 318,000 540   | 314,000 530   | 309,000 520   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 2 3/4" Water 1.59 ozs. per sq. inch                    | Static Pressure 3" Water 1.73 ozs. per sq. inch                       | Static Pressure 3 1/4" Water 2.02 ozs. per sq. inch                   | Static Pressure 3 1/2" Water 2.31 ozs. per sq. inch                   | Static Pressure 4" Water 2.69 ozs. per sq. inch                       | Static Pressure 4 1/2" Water 3.47 ozs. per sq. inch                   | Static Pressure 5" Water 4.05 ozs. per sq. inch                       |
| 153    | 6250             | 3.12             | 102,000 82   |   |   |   |   |   |   |
| 159    | 6500             | 3.38             | 119,000 100  | 104,000 92  |   |   |   |   |   |
| 165    | 6750             | 3.63             | 135,000 120  | 122,000 110   |   |   |   |   |   |
| 171    | 7000             | 3.91             | 152,000 140  | 140,000 135   | 111,000 115   |   |   |   |   |
| 184    | 7500             | 4.50             | 182,000 185  | 171,000 180   | 146,000 160   | 120,000 140   |   |   |   |
| 196    | 8000             | 5.11             | 210,000 235  | 200,000 230   | 178,000 215   | 155,000 195   | 106,000 150   |   |   |
| 208    | 8500             | 5.76             | 236,000 295  | 226,000 285   | 207,000 270   | 186,000 250   | 142,000 210   |   |   |
| 220    | 9000             | 6.46             | 259,000 360  | 251,000 350   | 234,000 335   | 216,000 315   | 176,000 280   | 134,000 235   |   |
| 233    | 9500             | 7.20             | 282,000 435  | 275,000 425   | 261,000 405   | 244,000 385   | 208,000 350   | 169,000 310   | 128,000 255   |
| 245    | 10000            | 7.98             | 304,000 515  | 298,000 505   | 284,000 485   | 270,000 470   | 239,000 435   | 203,000 390   | 164,000 340   |

Single Inlet

**280" Steel Plate Fan—Design 1**

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.<br>Static Pressure 1/4" Water<br>.0722 ozs. per sq. inch | H. P.  | Volume C.F.M.<br>Static Pressure 1/4" Water<br>.145 ozs. per sq. inch | H. P.  | Volume C.F.M.<br>Static Pressure 3/8" Water<br>.217 ozs. per sq. inch | H. P.  | Volume C.F.M.<br>Static Pressure 1/2" Water<br>.289 ozs. per sq. inch | H. P.  | Volume C.F.M.<br>Static Pressure 5/8" Water<br>.361 ozs. per sq. inch | H. P.  | Volume C.F.M.<br>Static Pressure 3/4" Water<br>.434 ozs. per sq. inch | H. P.  | Volume C.F.M.<br>Static Pressure 7/8" Water<br>.506 ozs. per sq. inch | H. P.  |
|--------|------------------|------------------|--|--|---|--|---|--|---|--|---|--|---|--|---|--|
| 32     | 1400             | 0.157            | 30,800   | 1.20   |   |  |   |  |   |  |   |  |   |  |   |  |
| 36     | 1600             | 0.205            | 45,300   | 2.10   |   |  |   |  |   |  |   |  |   |  |   |  |
| 41     | 1800             | 0.259            | 57,600   | 3.25   | 28,600  | 2.05   |   |  |   |  |   |  |   |  |   |  |
| 45     | 2000             | 0.320            | 68,700   | 4.7  | 45,300  | 3.35   |   |  |   |  |   |  |   |  |   |  |
| 50     | 2200             | 0.387            | 79,000   | 6.5  | 60,000  | 5.3  | 34,800  | 3.7  |   |  |   |  |   |  |   |  |
| 55     | 2400             | 0.460            | 88,200   | 8.6  | 72,600  | 7.4  | 51,500  | 5.9  |   |  |   |  |   |  |   |  |
| 59     | 2600             | 0.540            | 97,300   | 11.0   | 81,500  | 9.8  | 66,400  | 8.4  | 45,200  | 7.3  |   |  |   |  |   |  |
| 64     | 2800             | 0.626            | 106,000  | 14.0   | 95,800  | 13.0   | 80,000  | 11.5   | 61,600  | 9.5  |   |  |   |  |   |  |
| 68     | 3000             | 0.718            | 115,000  | 17.5   | 106,000   | 16.0   | 92,800  | 14.5   | 76,400  | 13.0   | 58,500  | 11.0   |   |  |   |  |
| 73     | 3200             | 0.816            | 123,000  | 21.5   | 116,000   | 20.0   | 104,000   | 18.5   | 90,500  | 16.5   | 74,100  | 14.5   | 56,200  | 12.0   |   |  |
| 77     | 3400             | 0.922            | 132,000  | 26   | 125,000   | 21.5   | 116,000   | 23   | 104,000   | 21   | 88,800  | 19   | 71,400  | 16.5   | 55,800  | 14.0   |
| 82     | 3600             | 1.03             | 140,000  | 32   | 133,000   | 30   | 126,000   | 28   | 115,000   | 26   | 103,000   | 24   | 87,000  | 21.5   | 73,100  | 19.5   |
| 86     | 3800             | 1.15             | 148,000  | 37   | 143,000   | 35   | 136,000   | 33   | 126,000   | 31   | 115,000   | 29   | 102,000   | 27   | 88,500  | 25   |
| 90     | 4000             | 1.28             | 157,000  | 43   |   |  | 146,000   | 40   | 138,000   | 37   | 128,000   | 36   | 116,000   | 33   | 104,000   | 31   |
| 95     | 4200             | 1.41             | 165,000  | 50   |   |  | 155,000   | 47   | 148,000   | 44   | 140,000   | 42   | 129,000   | 40   | 118,000   | 38   |
| 100    | 4400             | 1.54             | 173,000  | 58   |   |  | 164,000   | 54   | 158,000   | 52   | 151,000   | 49   | 141,000   | 47   | 130,000   | 45   |
| 105    | 4600             | 1.69             | 182,000  | 66   |   |  | 173,000   | 62   | 168,000   | 62   | 162,000   | 58   | 152,000   | 56   | 144,000   | 54   |
| 109    | 4800             | 1.84             | 189,000  | 76   |   |  | 182,000   | 72   | 177,000   | 70   | 171,000   | 68   | 163,000   | 64   | 155,000   | 62   |
| 114    | 5000             | 2.00             | 198,000  | 86   |   |  |   |  | 186,000   | 80   | 181,000   | 76   | 174,000   | 74   | 166,000   | 72   |
| 119    | 5250             | 2.20             | 208,000  | 100  |   |  |   |  | 197,000   | 92   | 192,000   | 90   | 187,000   | 88   | 180,000   | 84   |
| 125    | 5500             | 2.42             | 218,000  | 115  |   |  |   |  | 208,000   | 110  | 204,000   | 105  | 198,000   | 105  | 193,000   | 100  |
| 131    | 5750             | 2.54             | 227,000  | 125  |   |  |   |  |   |  | 214,000   | 115  | 210,000   | 115  | 204,000   | 110  |
| 136    | 6000             | 2.87             | 239,000  | 150  |   |  |   |  |   |  | 221,000   | 140  | 222,000   | 135  | 218,000   | 135  |
| 142    | 6250             | 3.12             | 248,000  | 170  |   |  |   |  |   |  |   |  | 234,000   | 155  | 227,000   | 160  |
| 148    | 6500             | 3.38             | 258,000  | 190  |   |  |   |  |   |  |   |  | 245,000   | 180  | 241,000   | 175  |
| 153    | 6750             | 3.63             | 269,000  | 210  |   |  |   |  |   |  |   |  |   |  | 252,000   | 195  |
| 159    | 7000             | 3.91             | 278,000  | 235  |   |  |   |  |   |  |   |  |   |  | 263,000   | 220  |
| 170    | 7500             | 4.50             | 299,000  | 290  |   |  |   |  |   |  |   |  |   |  |   |  |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water<br>.723 ozs. per sq. inch                     | Static Pressure 1 1/4" Water<br>.723 ozs. per sq. inch | Static Pressure 1 1/2" Water<br>.878 ozs. per sq. inch                | Static Pressure 1 3/4" Water<br>1.01 ozs. per sq. inch | Static Pressure 2" Water<br>1.16 ozs. per sq. inch                    | Static Pressure 2 1/4" Water<br>1.30 ozs. per sq. inch | Static Pressure 2 1/2" Water<br>1.45 ozs. per sq. inch                | Static Pressure 2 3/4" Water<br>1.60 ozs. per sq. inch | Static Pressure 3" Water<br>1.75 ozs. per sq. inch                    | Static Pressure 3 1/4" Water<br>1.90 ozs. per sq. inch | Static Pressure 3 1/2" Water<br>2.05 ozs. per sq. inch                | Static Pressure 3 3/4" Water<br>2.20 ozs. per sq. inch | Static Pressure 4" Water<br>2.35 ozs. per sq. inch                    | Static Pressure 4 1/4" Water<br>2.50 ozs. per sq. inch |
| 82     | 3600             | 1.03             | 57,000   | 16.5   |   |  |   |  |   |  |   |  |   |  |   |  |
| 86     | 3800             | 1.15             | 71,000   | 22   |   |  |   |  |   |  |   |  |   |  |   |  |
| 90     | 4000             | 1.28             | 90,500   | 28   | 62,200  | 24.5   |   |  |   |  |   |  |   |  |   |  |
| 95     | 4200             | 1.41             | 105,000  | 35   | 79,200  | 29   |   |  |   |  |   |  |   |  |   |  |
| 100    | 4400             | 1.54             | 119,000  | 42   | 94,500  | 36   | 68,700  | 29   |   |  |   |  |   |  |   |  |
| 105    | 4600             | 1.69             | 134,000  | 50   | 110,000   | 45   | 86,200  | 38   |   |  |   |  |   |  |   |  |
| 109    | 4800             | 1.84             | 145,000  | 60   | 125,000   | 54   | 103,000   | 48   | 78,500  | 39   |   |  |   |  |   |  |
| 111    | 5000             | 2.00             | 158,000  | 70   | 139,000   | 64   | 118,000   | 58   | 96,000  | 50   |   |  |   |  |   |  |
| 119    | 5250             | 2.20             | 171,000  | 82   | 155,000   | 76   | 137,000   | 70   | 116,000   | 62   | 94,500  | 54   |   |  |   |  |
| 125    | 5500             | 2.42             | 186,000  | 96   | 171,000   | 92   | 154,000   | 86   | 135,000   | 78   | 116,000   | 70   | 95,100  | 62   |   |  |
| 131    | 5750             | 2.54             | 197,000  | 105  | 183,000   | 100  | 169,000   | 96   | 154,000   | 92   | 135,000   | 84   | 109,000   | 74   |   |  |
| 136    | 6000             | 2.87             | 212,000  | 130  | 200,000   | 125  | 185,000   | 115  | 170,000   | 110  | 153,000   | 105  | 135,000   | 96   | 117,000   | 88   |
| 142    | 6250             | 3.12             | 225,000  | 150  | 214,000   | 140  | 200,000   | 135  | 186,000   | 130  | 172,000   | 120  | 154,000   | 115  | 137,000   | 105  |
| 148    | 6500             | 3.38             | 237,000  | 170  | 227,000   | 165  | 213,000   | 155  | 202,000   | 150  | 188,000   | 140  | 172,000   | 135  | 157,000   | 125  |
| 153    | 6750             | 3.63             | 248,000  | 195  | 240,000   | 185  | 228,000   | 175  | 216,000   | 170  | 204,000   | 165  | 189,000   | 155  | 175,000   | 150  |
| 159    | 7000             | 3.91             | 260,000  | 220  | 252,000   | 210  | 242,000   | 200  | 230,000   | 195  | 219,000   | 185  | 206,000   | 180  | 191,000   | 170  |
| 170    | 7500             | 4.50             | 282,000  | 275  | 276,000   | 265  | 267,000   | 255  | 258,000   | 245  | 248,000   | 240  | 237,000   | 235  | 225,000   | 225  |
| 182    | 8000             | 5.11             |  |  | 298,000   | 325  | 292,000   | 320  | 284,000   | 305  | 275,000   | 300  | 265,000   | 290  | 255,000   | 285  |
| 193    | 8500             | 5.76             |  |  | 320,000   | 395  | 315,000   | 390  | 306,000   | 375  | 300,000   | 370  | 292,000   | 360  | 283,000   | 350  |
| 205    | 9000             | 6.46             |  |  | 342,000   | 475  | 336,000   | 465  | 332,000   | 455  | 325,000   | 445  | 318,000   | 440  | 310,000   | 425  |
| 216    | 9500             | 7.20             |  |  |   |  | 360,000   | 555  | 354,000   | 545  | 348,000   | 535  | 342,000   | 525  | 336,000   | 515  |
| 227    | 10000            | 7.98             |  |  |   |  | 383,000   | 655  | 377,000   | 640  | 371,000   | 630  | 366,000   | 620  | 361,000   | 610  |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 2 1/2" Water<br>1.59 ozs. per sq. inch                 | Static Pressure 3" Water<br>1.73 ozs. per sq. inch     | Static Pressure 3 1/4" Water<br>2.02 ozs. per sq. inch                | Static Pressure 3 1/2" Water<br>2.31 ozs. per sq. inch | Static Pressure 3 3/4" Water<br>2.60 ozs. per sq. inch                | Static Pressure 4" Water<br>2.87 ozs. per sq. inch     | Static Pressure 4 1/4" Water<br>3.15 ozs. per sq. inch                | Static Pressure 4 1/2" Water<br>3.43 ozs. per sq. inch | Static Pressure 4 3/4" Water<br>3.71 ozs. per sq. inch                | Static Pressure 5" Water<br>4.00 ozs. per sq. inch     | Static Pressure 5 1/4" Water<br>4.28 ozs. per sq. inch                | Static Pressure 5 1/2" Water<br>4.56 ozs. per sq. inch | Static Pressure 5 3/4" Water<br>4.84 ozs. per sq. inch                | Static Pressure 6" Water<br>5.12 ozs. per sq. inch     |
| 142    | 6250             | 3.12             | 119,000  | 96   |   |  |   |  |   |  |   |  |   |  |   |  |
| 148    | 6500             | 3.38             | 139,000  | 120  | 122,000   | 105  |   |  |   |  |   |  |   |  |   |  |
| 153    | 6750             | 3.63             | 158,000  | 140  | 142,000   | 130  |   |  |   |  |   |  |   |  |   |  |
| 159    | 7000             | 3.91             | 177,000  | 165  | 163,000   | 155  | 130,000   | 135  |   |  |   |  |   |  |   |  |
| 170    | 7500             | 4.50             | 212,000  | 215  | 199,000   | 210  | 170,000   | 185  | 140,000   | 165  |   |  |   |  |   |  |
| 182    | 8000             | 5.11             | 244,000  | 275  | 233,000   | 270  | 208,000   | 250  | 181,000   | 225  | 124,000   | 175  |   |  |   |  |
| 193    | 8500             | 5.76             | 275,000  | 345  | 264,000   | 330  | 242,000   | 315  | 217,000   | 295  | 165,000   | 245  |   |  |   |  |
| 205    | 9000             | 6.46             | 302,000  | 420  | 292,000   | 410  | 274,000   | 390  | 252,000   | 370  | 205,000   | 325  | 156,000   | 270  |   |  |
| 216    | 9500             | 7.20             | 329,000  | 505  | 320,000   | 495  | 304,000   | 475  | 284,000   | 450  | 242,000   | 410  | 197,000   | 360  | 149,000   | 300  |
| 227    | 10000            | 7.98             | 355,000  | 600  | 347,000   | 590  | 332,000   | 565  | 316,000   | 550  | 278,000   | 505  | 236,000   | 455  | 191,000   | 385  |

Single Inlet

## 300" Steel Plate Fan—Design 1

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M. H. P. Static Pressure 1/2" Water .072 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1/2" Water .145 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 3/4" Water .217 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1" Water .289 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1 1/4" Water .361 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1 1/2" Water .434 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1 3/4" Water .506 ozs. per sq. inch |
|--------|------------------|------------------|---|---|---|---|---|---|---|
| 30     | 1400             | 0.157            | 34,600 1.35   |   |   |   |   |   |   |
| 34     | 1600             | 0.205            | 50,700 2.35   |   |   |   |   |   |   |
| 38     | 1800             | 0.259            | 64,600 3.05   | 32,000 2.30   |   |   |   |   |   |
| 42     | 2000             | 0.320            | 77,000 5.2  | 50,700 3.75   |   |   |   |   |   |
| 47     | 2200             | 0.387            | 88,600 7.3  | 67,300 6.0  | 38,900 4.15   |   |   |   |   |
| 51     | 2400             | 0.460            | 98,800 9.7  | 81,500 8.3  | 57,700 6.6  |   |   |   |   |
| 55     | 2600             | 0.540            | 109,000 12.5  | 94,600 11.0   | 71,400 9.4  | 50,700 8.1  |   |   |   |
| 59     | 2800             | 0.626            | 119,000 16.0  | 107,000 14.5  | 89,700 12.5   | 69,000 10.5   |   |   |   |
| 61     | 3000             | 0.718            | 129,000 20.0  | 119,000 18.0  | 104,000 16.5  | 85,600 14.5   |   |   |   |
| 68     | 3200             | 0.816            | 138,000 24.5  | 130,000 22.5  | 117,000 20.5  | 101,000 19.0  | 65,500 12.0   |   |   |
| 72     | 3400             | 0.922            | 148,000 29  | 140,000 28  | 130,000 26  | 116,000 23.5  | 83,000 16.5   | 63,000 13.5   |   |
| 76     | 3600             | 1.03             | 157,000 35  | 150,000 33  | 141,000 31  | 129,000 29  | 99,500 21.5   | 80,000 18.5   | 62,500 15.5   |
| 81     | 3800             | 1.15             | 166,000 42  | 161,000 40  | 153,000 37  | 141,000 35  | 115,000 27  | 97,500 24   | 81,900 21.5   |
| 85     | 4000             | 1.28             | 175,000 48  |   | 164,000 45  | 154,000 42  | 129,000 33  | 111,000 30  | 99,100 28   |
| 89     | 4200             | 1.41             | 185,000 56  |   | 174,000 52  | 166,000 50  | 143,000 40  | 130,000 37  | 116,000 35  |
| 93     | 4400             | 1.54             | 194,000 64  |   | 184,000 60  | 177,000 58  | 157,000 47  | 144,000 45  | 132,000 42  |
| 98     | 4600             | 1.69             | 201,000 74  |   | 194,000 70  | 189,000 68  | 169,000 56  | 158,000 52  | 146,000 50  |
| 102    | 4800             | 1.84             | 212,000 84  |   | 201,000 80  | 198,000 78  | 181,000 66  | 170,000 62  | 161,000 60  |
| 106    | 5000             | 2.00             | 222,000 96  |   |   | 208,000 90  | 191,000 76  | 183,000 72  | 174,000 68  |
| 111    | 5250             | 2.20             | 233,000 110   |   |   | 221,000 105   | 202,000 86  | 195,000 82  | 186,000 80  |
| 117    | 5500             | 2.42             | 244,000 130   |   |   | 233,000 120   | 215,000 100   | 209,000 98  | 201,000 94  |
| 122    | 5750             | 2.54             | 255,000 140   |   |   |   | 229,000 120   | 222,000 115   | 216,000 110   |
| 127    | 6000             | 2.87             | 267,000 165   |   |   |   | 239,000 130   | 235,000 125   | 228,000 125   |
| 133    | 6250             | 3.12             | 278,000 190   |   |   |   | 251,000 155   | 249,000 155   | 244,000 150   |
| 138    | 6500             | 3.38             | 289,000 210   |   |   |   | 262,000 175   | 262,000 175   | 254,000 170   |
| 143    | 6750             | 3.63             | 301,000 240   |   |   |   | 275,000 200   | 275,000 200   | 270,000 195   |
| 148    | 7000             | 3.91             | 312,000 265   |   |   |   |   |   | 282,000 220   |
| 159    | 7500             | 4.50             | 335,000 330   |   |   |   |   |   |   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 ozs. per sq. inch                       | Static Pressure 1 1/4" Water .723 ozs. per sq. inch                   | Static Pressure 1 1/2" Water .878 ozs. per sq. inch                   | Static Pressure 1 3/4" Water 1.01 ozs. per sq. inch                 | Static Pressure 2" Water 1.16 ozs. per sq. inch                         | Static Pressure 2 1/4" Water 1.30 ozs. per sq. inch                     | Static Pressure 2 1/2" Water 1.45 ozs. per sq. inch                     |
| 76     | 3600             | 1.03             | 63,900 18.5   |   |   |   |   |   |   |
| 81     | 3800             | 1.15             | 83,000 24.5   |   |   |   |   |   |   |
| 85     | 4000             | 1.28             | 101,000 32  | 69,700 27   |   |   |   |   |   |
| 89     | 4200             | 1.41             | 118,000 39  | 88,700 33   |   |   |   |   |   |
| 93     | 4400             | 1.54             | 133,000 47  | 106,000 41  | 77,000 33   |   |   |   |   |
| 98     | 4600             | 1.69             | 150,000 56  | 123,000 50  | 96,500 43   |   |   |   |   |
| 102    | 4800             | 1.84             | 163,000 66  | 140,000 60  | 115,000 54  | 88,000 43   |   |   |   |
| 106    | 5000             | 2.00             | 177,000 78  | 156,000 70  | 133,000 64  | 108,000 56  |   |   |   |
| 111    | 5250             | 2.20             | 192,000 90  | 174,000 86  | 153,000 78  | 130,000 70  | 106,000 62  |   |   |
| 117    | 5500             | 2.42             | 208,000 110   | 192,000 100   | 172,000 96  | 151,000 88  | 129,000 78  | 107,000 70  |   |
| 122    | 5750             | 2.54             | 220,000 120   | 205,000 115   | 180,000 110   | 172,000 100   | 151,000 96  | 122,000 81  |   |
| 127    | 6000             | 2.87             | 238,000 145   | 224,000 135   | 208,000 130   | 190,000 125   | 171,000 115   | 152,000 105   | 131,000 96  |
| 133    | 6250             | 3.12             | 252,000 170   | 239,000 160   | 224,000 150   | 209,000 145   | 193,000 135   | 173,000 130   | 153,000 120   |
| 138    | 6500             | 3.38             | 265,000 190   | 254,000 185   | 239,000 175   | 227,000 170   | 211,000 155   | 193,000 150   | 175,000 140   |
| 143    | 6750             | 3.63             | 278,000 215   | 268,000 205   | 256,000 200   | 243,000 190   | 228,000 185   | 212,000 175   | 196,000 165   |
| 148    | 7000             | 3.91             | 291,000 245   | 282,000 235   | 271,000 225   | 258,000 215   | 245,000 210   | 231,000 200   | 214,000 190   |
| 159    | 7500             | 4.50             | 316,000 305   | 309,000 295   | 299,000 285   | 289,000 275   | 278,000 270   | 265,000 260   | 252,000 250   |
| 170    | 8000             | 5.11             |   | 334,000 365   | 327,000 355   | 318,000 345   | 308,000 335   | 297,000 325   | 286,000 320   |
| 180    | 8500             | 5.76             |   | 359,000 440   | 358,000 435   | 343,000 425   | 336,000 415   | 328,000 400   | 317,000 390   |
| 191    | 9000             | 6.46             |   | 384,000 535   | 377,000 520   | 372,000 510   | 364,000 500   | 357,000 490   | 347,000 480   |
| 201    | 9500             | 7.20             |   |   | 403,000 620   | 397,000 610   | 390,000 600   | 384,000 590   | 377,000 575   |
| 212    | 10000            | 7.98             |   |   | 429,000 735   | 423,000 715   | 416,000 705   | 410,000 695   | 404,000 685   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 2 1/2" Water 1.59 ozs. per sq. inch                   | Static Pressure 3" Water 1.73 ozs. per sq. inch                       | Static Pressure 3 1/2" Water 2.02 ozs. per sq. inch                   | Static Pressure 4" Water 2.31 ozs. per sq. inch                     | Static Pressure 5" Water 2.89 ozs. per sq. inch                         | Static Pressure 6" Water 3.47 ozs. per sq. inch                         | Static Pressure 7" Water 4.05 ozs. per sq. inch                         |
| 133    | 6250             | 3.12             | 133,000 110   |   |   |   |   |   |   |
| 138    | 6500             | 3.38             | 156,000 130   | 137,000 120   |   |   |   |   |   |
| 143    | 6750             | 3.63             | 177,000 155   | 159,000 145   |   |   |   |   |   |
| 148    | 7000             | 3.91             | 198,000 185   | 188,000 175   | 146,000 150   |   |   |   |   |
| 159    | 7500             | 4.50             | 238,000 245   | 223,000 235   | 190,000 210   | 157,000 185   |   |   |   |
| 170    | 8000             | 5.11             | 274,000 310   | 261,000 300   | 233,000 280   | 202,000 255   | 139,000 200   |   |   |
| 180    | 8500             | 5.76             | 308,000 385   | 296,000 370   | 271,000 355   | 243,000 330   | 185,000 275   |   |   |
| 191    | 9000             | 6.46             | 339,000 470   | 328,000 455   | 306,000 435   | 282,000 415   | 230,000 365   | 175,000 305   |   |
| 201    | 9500             | 7.20             | 368,000 565   | 359,000 555   | 340,000 530   | 319,000 505   | 272,000 460   | 221,000 400   | 167,000 335   |
| 212    | 10000            | 7.98             | 398,000 675   | 389,000 660   | 372,000 635   | 354,000 615   | 312,000 565   | 265,000 510   | 214,000 445   |

Single Inlet

**320" Steel Plate Fan—Design 1**

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed<br>F.P.M. | S.N.D.<br>in<br>inches | Volume<br>C.F.M.  | H. P.   | Volume<br>C.F.M.  | H. P.   | Volume<br>C.F.M.   | H. P.   | Volume<br>C.F.M.   | H. P.   | Volume<br>C.F.M.   | H. P.   | Volume<br>C.F.M.   | H. P.   | Volume<br>C.F.M.  | H. P.  |
|--------|---------------------|------------------------|---|---|---|---|--|---|--|---|--|---|--|---|---|--|
|        |                     |                        | Static Pressure<br>1" Water<br>.0722 ozs. per<br>sq. inch | Static Pressure<br>1½" Water<br>.145 ozs. per<br>sq. inch | Static Pressure<br>2" Water<br>.217 ozs. per<br>sq. inch  | Static Pressure<br>2½" Water<br>.289 ozs. per<br>sq. inch | Static Pressure<br>3" Water<br>.361 ozs. per<br>sq. inch | Static Pressure<br>3½" Water<br>.434 ozs. per<br>sq. inch | Static Pressure<br>4" Water<br>.506 ozs. per<br>sq. inch | Static Pressure<br>4½" Water<br>.578 ozs. per<br>sq. inch | Static Pressure<br>5" Water<br>.650 ozs. per<br>sq. inch | Static Pressure<br>5½" Water<br>.722 ozs. per<br>sq. inch | Static Pressure<br>6" Water<br>.794 ozs. per<br>sq. inch | Static Pressure<br>6½" Water<br>.866 ozs. per<br>sq. inch | Static Pressure<br>7" Water<br>.938 ozs. per<br>sq. inch  | Static Pressure<br>7½" Water<br>1.010 ozs. per<br>sq. inch |
| 28     | 1400                | 0 157                  | 39,000  | 1 50  |   |   |  |   |  |   |  |   |  |   |   |  |
| 32     | 1600                | 0 205                  | 57,200  | 2 05  |   |   |  |   |  |   |  |   |  |   |   |  |
| 36     | 1800                | 0 259                  | 73,000  | 4 1   | 36,200  | 2 6   |  |   |  |   |  |   |  |   |   |  |
| 40     | 2000                | 0 320                  | 86,900  | 5 9   | 57,200  | 4 2   |  |   |  |   |  |   |  |   |   |  |
| 44     | 2200                | 0 387                  | 100,000   | 8 3   | 76,000  | 6 8   | 44,000   | 1 7   |  |   |  |   |  |   |   |  |
| 48     | 2400                | 0 460                  | 112,000   | 11 0  | 92,000  | 9 4   | 65,100   | 7 5   |  |   |  |   |  |   |   |  |
| 52     | 2600                | 0 540                  | 123,000   | 11 0  | 107,000   | 12 5  | 83,900   | 10 5  | 57,200   | 9 2   |  |   |  |   |   |  |
| 56     | 2800                | 0 626                  | 134,000   | 18 0  | 121,000   | 16 0  | 101,000  | 14 5  | 78,000   | 12 0  |  |   |  |   |   |  |
| 60     | 3000                | 0 718                  | 145,000   | 22 5  | 134,000   | 20 5  | 117,000  | 18 5  | 96,700   | 16 5  | 74,000   | 13 5  |  |   |   |  |
| 64     | 3200                | 0 816                  | 156,000   | 27  | 147,000   | 26  | 132,000  | 23 5  | 115,000  | 21  | 93,800   | 18 5  | 71,100   | 15 5  |   |  |
| 68     | 3400                | 0 922                  | 167,000   | 33  | 159,000   | 31  | 147,000  | 29  | 131,000  | 27  | 112,000  | 24  | 90,300   | 21  | 70,600  | 17 5   |
| 72     | 3600                | 1 03                   | 177,000   | 40  | 169,000   | 37  | 159,000  | 35  | 146,000  | 33  | 130,000  | 30  | 110,000  | 27  | 92,500  | 24 5   |
| 76     | 3800                | 1 15                   | 188,000   | 47  | 181,000   | 45  | 173,000  | 42  | 160,000  | 39  | 146,000  | 37  | 129,000  | 31  | 112,000   | 31   |
| 80     | 4000                | 1 28                   | 198,000   | 54  |   |   | 185,000  | 50  | 174,000  | 47  | 162,000  | 45  | 147,000  | 42  | 131,000   | 38   |
| 84     | 4200                | 1 41                   | 209,000   | 64  |   |   | 197,000  | 60  | 187,000  | 56  | 177,000  | 54  | 163,000  | 52  | 149,000   | 48   |
| 88     | 4400                | 1 51                   | 220,000   | 72  |   |   | 207,000  | 68  | 200,000  | 66  | 191,000  | 62  | 178,000  | 60  | 164,000   | 56   |
| 92     | 4600                | 1 69                   | 230,000   | 82  |   |   | 219,000  | 80  | 213,000  | 78  | 205,000  | 74  | 192,000  | 70  | 182,000   | 68   |
| 96     | 4800                | 1 84                   | 239,000   | 96  |   |   | 230,000  | 90  | 224,000  | 88  | 216,000  | 84  | 206,000  | 82  | 196,000   | 78   |
| 100    | 5000                | 2 00                   | 250,000   | 110   |   |   |  |   | 235,000  | 100   | 228,000  | 98  | 220,000  | 94  | 210,000   | 90   |
| 104    | 5250                | 2 20                   | 263,000   | 125   |   |   |  |   | 250,000  | 115   | 243,000  | 115   | 236,000  | 110   | 227,000   | 105  |
| 108    | 5500                | 2 42                   | 276,000   | 145   |   |   |  |   | 264,000  | 135   | 258,000  | 135   | 251,000  | 130   | 244,000   | 125  |
| 114    | 5750                | 2 51                   | 288,000   | 160   |   |   |  |   |  |   | 270,000  | 145   | 265,000  | 145   | 258,000   | 140  |
| 119    | 6000                | 2 87                   | 302,000   | 190   |   |   |  |   |  |   | 284,000  | 175   | 281,000  | 175   | 275,000   | 170  |
| 124    | 6250                | 3 12                   | 314,000   | 215   |   |   |  |   |  |   |  |   | 295,000  | 195   | 287,000   | 190  |
| 129    | 6500                | 3 38                   | 325,000   | 240   |   |   |  |   |  |   |  |   |  |   | 305,000   | 220  |
| 134    | 6750                | 3 63                   | 340,000   | 270   |   |   |  |   |  |   |  |   |  |   | 318,000   | 245  |
| 139    | 7000                | 3 91                   | 352,000   | 295   |   |   |  |   |  |   |  |   |  |   | 333,000   | 280  |
| 149    | 7500                | 4 50                   | 378,000   | 370   |   |   |  |   |  |   |  |   |  |   |   |  |
|        |                     |                        |   |   |   |   |  |   |  |   |  |   |  |   |   |  |
| R.P.M. | Tip Speed<br>F.P.M. | S.N.D.<br>in<br>inches | Static Pressure<br>1" Water<br>.578 ozs. per<br>sq. inch  | Static Pressure<br>1½" Water<br>.723 ozs. per<br>sq. inch | Static Pressure<br>2" Water<br>.878 ozs. per<br>sq. inch  | Static Pressure<br>2½" Water<br>1.01 ozs. per<br>sq. inch | Static Pressure<br>3" Water<br>1.16 ozs. per<br>sq. inch | Static Pressure<br>3½" Water<br>1.30 ozs. per<br>sq. inch | Static Pressure<br>4" Water<br>1.45 ozs. per<br>sq. inch | Static Pressure<br>4½" Water<br>1.59 ozs. per<br>sq. inch | Static Pressure<br>5" Water<br>1.73 ozs. per<br>sq. inch | Static Pressure<br>5½" Water<br>1.88 ozs. per<br>sq. inch | Static Pressure<br>6" Water<br>2.02 ozs. per<br>sq. inch | Static Pressure<br>6½" Water<br>2.17 ozs. per<br>sq. inch | Static Pressure<br>7" Water<br>2.31 ozs. per<br>sq. inch  | Static Pressure<br>7½" Water<br>2.46 ozs. per<br>sq. inch  |
| 72     | 3600                | 1 03                   | 72,100  | 20 5  |   |   |  |   |  |   |  |   |  |   |   |  |
| 76     | 3800                | 1 15                   | 93,600  | 28  |   |   |  |   |  |   |  |   |  |   |   |  |
| 80     | 4000                | 1 28                   | 115,000   | 36  | 78,700  | 31  |  |   |  |   |  |   |  |   |   |  |
| 84     | 4200                | 1 41                   | 133,000   | 44  | 100,000   | 37  |  |   |  |   |  |   |  |   |   |  |
| 88     | 4400                | 1 54                   | 150,000   | 54  | 120,000   | 46  | 86,900   | 37  |  |   |  |   |  |   |   |  |
| 92     | 4600                | 1 69                   | 169,000   | 62  | 139,000   | 56  | 109,000  | 48  |  |   |  |   |  |   |   |  |
| 96     | 4800                | 1 84                   | 184,000   | 74  | 159,000   | 68  | 130,000  | 60  | 99,400   | 49  |  |   |  |   |   |  |
| 100    | 5000                | 2 00                   | 200,000   | 88  | 176,000   | 80  | 150,000  | 72  | 121,000  | 62  |  |   |  |   |   |  |
| 104    | 5250                | 2 20                   | 217,000   | 100   | 197,000   | 96  | 173,000  | 90  | 147,000  | 80  | 120,000  | 70  |  |   |   |  |
| 108    | 5500                | 2 42                   | 235,000   | 120   | 217,000   | 115   | 194,000  | 110   | 170,000  | 98  | 146,000  | 90  | 120,000  | 78  |   |  |
| 114    | 5750                | 2 51                   | 249,000   | 135   | 232,000   | 130   | 214,000  | 125   | 195,000  | 115   | 171,000  | 105   | 137,000  | 94  |   |  |
| 119    | 6000                | 2 87                   | 268,000   | 165   | 253,000   | 155   | 234,000  | 150   | 215,000  | 140   | 193,000  | 130   | 171,000  | 120   | 148,000   | 110  |
| 124    | 6250                | 3 12                   | 285,000   | 190   | 270,000   | 180   | 253,000  | 170   | 236,000  | 165   | 218,000  | 155   | 195,000  | 145   | 173,000   | 135  |
| 129    | 6500                | 3 38                   | 299,000   | 215   | 287,000   | 205   | 270,000  | 195   | 256,000  | 190   | 238,000  | 175   | 218,000  | 170   | 198,000   | 160  |
| 134    | 6750                | 3 63                   | 314,000   | 245   | 303,000   | 235   | 288,000  | 225   | 274,000  | 215   | 258,000  | 210   | 239,000  | 200   | 222,000   | 190  |
| 139    | 7000                | 3 91                   | 328,000   | 275   | 318,000   | 265   | 306,000  | 255   | 292,000  | 245   | 277,000  | 235   | 261,000  | 230   | 242,000   | 215  |
| 149    | 7500                | 4 50                   | 357,000   | 345   | 349,000   | 335   | 338,000  | 325   | 326,000  | 315   | 314,000  | 305   | 299,000  | 295   | 285,000   | 285  |
| 159    | 8000                | 5 11                   |   |   | 377,000   | 415   | 369,000  | 405   | 359,000  | 390   | 348,000  | 380   | 335,000  | 365   | 323,000   | 360  |
| 169    | 8500                | 5 76                   |   |   | 405,000   | 500   | 398,000  | 490   | 387,000  | 475   | 380,000  | 465   | 370,000  | 455   | 358,000   | 445  |
| 179    | 9000                | 6 46                   |   |   | 434,000   | 600   | 426,000  | 585   | 420,000  | 580   | 411,000  | 565   | 403,000  | 555   | 392,000   | 540  |
| 189    | 9500                | 7 20                   |   |   |   |   | 455,000  | 700   | 448,000  | 690   | 440,000  | 675   | 433,000  | 665   | 426,000   | 650  |
| 199    | 10000               | 7 98                   |   |   |   |   | 485,000  | 825   | 477,000  | 810   | 470,000  | 795   | 461,000  | 785   | 456,000   | 775  |
|        |                     |                        |   |   |   |   |  |   |  |   |  |   |  |   |   |  |
| R.P.M. | Tip Speed<br>F.P.M. | S.N.D.<br>in<br>inches | Static Pressure<br>2½" Water<br>1.59 ozs. per<br>sq. inch | Static Pressure<br>3" Water<br>1.73 ozs. per<br>sq. inch  | Static Pressure<br>3½" Water<br>2.02 ozs. per<br>sq. inch | Static Pressure<br>4" Water<br>2.31 ozs. per<br>sq. inch  | Static Pressure<br>5" Water<br>2.59 ozs. per<br>sq. inch | Static Pressure<br>6" Water<br>3.47 ozs. per<br>sq. inch  | Static Pressure<br>7" Water<br>4.05 ozs. per<br>sq. inch | Static Pressure<br>7½" Water<br>4.63 ozs. per<br>sq. inch | Static Pressure<br>8" Water<br>5.21 ozs. per<br>sq. inch | Static Pressure<br>8½" Water<br>5.79 ozs. per<br>sq. inch | Static Pressure<br>9" Water<br>6.37 ozs. per<br>sq. inch | Static Pressure<br>9½" Water<br>6.95 ozs. per<br>sq. inch | Static Pressure<br>10" Water<br>7.53 ozs. per<br>sq. inch | Static Pressure<br>10½" Water<br>8.11 ozs. per<br>sq. inch |
| 124    | 6250                | 3 12                   | 151,000   | 120   |   |   |  |   |  |   |  |   |  |   |   |  |
| 129    | 6500                | 3 38                   | 176,000   | 150   |   |   |  |   |  |   |  |   |  |   |   |  |
| 134    | 6750                | 3 63                   | 200,000   | 175   | 180,000   | 165   |  |   |  |   |  |   |  |   |   |  |
| 139    | 7000                | 3 91                   | 224,000   | 205   | 206,000   | 195   | 164,000  | 170   |  |   |  |   |  |   |   |  |
| 149    | 7500                | 4 50                   | 269,000   | 275   | 252,000   | 265   | 215,000  | 235   | 178,000  | 210   |  |   |  |   |   |  |
| 159    | 8000                | 5 11                   | 309,000   | 350   | 294,000   | 340   | 263,000  | 315   | 228,000  | 285   | 156,000  | 225   |  |   |   |  |
| 169    | 8500                | 5 76                   | 348,000   | 435   | 334,000   | 420   | 306,000  | 400   | 275,000  | 370   | 209,000  | 310   |  |   |   |  |
| 179    | 9000                | 6 46                   | 383,000   | 530   | 370,000   | 515   | 346,000  | 495   | 319,000  | 470   | 240,000  | 410   | 198,000  | 345   |   |  |
| 189    | 9500                | 7 20                   | 416,000   | 640   | 405,000   | 625   | 384,000  | 605   | 360,000  | 570   | 307,000  | 520   | 250,000  | 455   | 188,000   | 375  |
| 199    | 10000               | 7 98                   | 449,000   | 765   | 440,000   | 745   | 420,000  | 715   | 399,000  | 695   | 352,000  | 640   | 299,000  | 575   | 242,000   | 500  |

Single Inlet

**360" Steel Plate Fan—Design 1**

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.<br>Static Pressure<br>1/8" Water<br>.0722 ozs. per sq. inch | H. P.   | Volume C.F.M.<br>Static Pressure<br>1/4" Water<br>.145 ozs. per sq. inch | H. P.   | Volume C.F.M.<br>Static Pressure<br>3/8" Water<br>.217 ozs. per sq. inch | H. P.   | Volume C.F.M.<br>Static Pressure<br>1/2" Water<br>.289 ozs. per sq. inch | H. P.   | Volume C.F.M.<br>Static Pressure<br>5/8" Water<br>.361 ozs. per sq. inch | H. P.   | Volume C.F.M.<br>Static Pressure<br>3/4" Water<br>.434 ozs. per sq. inch | H. P.   | Volume C.F.M.<br>Static Pressure<br>7/8" Water<br>.506 ozs. per sq. inch | H. P.   |
|--------|------------------|------------------|---|---|--|---|--|---|--|---|--|---|--|---|--|---|
| 25     | 1400             | 0 157            | 50,500  | 1 95  |  |   |  |   |  |   |  |   |  |   |  |   |
| 28     | 1600             | 0 205            | 74,100  | 3 15  |  |   |  |   |  |   |  |   |  |   |  |   |
| 32     | 1800             | 0 259            | 91,400  | 5 3   | 46,800   | 3 35  |  |   |  |   |  |   |  |   |  |   |
| 35     | 2000             | 0 320            | 113,000   | 7 7   | 74,100   | 5 5   |  |   |  |   |  |   |  |   |  |   |
| 39     | 2200             | 0 387            | 130,000   | 10 5  | 98,400   | 8 7   | 56,900   | 6 1   |  |   |  |   |  |   |  |   |
| 42     | 2400             | 0 460            | 144,000   | 14 0  | 119,000  | 12  | 84,400   | 9 7   |  |   |  |   |  |   |  |   |
| 46     | 2600             | 0 510            | 159,000   | 18 5  | 138,000  | 16  | 109,000  | 14 0  | 74,100   | 12 0  |  |   |  |   |  |   |
| 50     | 2800             | 0 626            | 174,000   | 23  | 157,000  | 21  | 131,000  | 18 5  | 101,000  | 15 5  |  |   |  |   |  |   |
| 53     | 3000             | 0 718            | 188,000   | 29  | 171,000  | 27  | 152,000  | 24  | 125,000  | 21  | 95,700   | 18  |  |   |  |   |
| 57     | 3200             | 0 816            | 202,000   | 35  | 190,000  | 33  | 171,000  | 30  | 148,000  | 27  | 121,000  | 24  | 92,000   | 20  |  |   |
| 60     | 3400             | 0 922            | 216,000   | 43  | 205,000  | 40  | 190,000  | 37  | 170,000  | 35  | 145,000  | 31  | 117,000  | 27  | 91,500   | 23  |
| 64     | 3600             | 1 03             | 230,000   | 52  | 219,000  | 48  | 206,000  | 45  | 189,000  | 42  | 168,000  | 39  | 143,000  | 35  | 120,000  | 32  |
| 67     | 3800             | 1 15             | 243,000   | 60  | 235,000  | 58  | 224,000  | 54  | 207,000  | 50  | 189,000  | 48  | 167,000  | 44  | 145,000  | 41  |
| 71     | 4000             | 1 28             | 257,000   | 70  |  |   | 240,000  | 66  | 225,000  | 62  | 209,000  | 58  | 191,000  | 54  | 170,000  | 50  |
| 74     | 4200             | 1 41             | 270,000   | 82  |  |   | 255,000  | 76  | 242,000  | 72  | 220,000  | 70  | 211,000  | 66  | 193,000  | 62  |
| 78     | 4400             | 1 54             | 284,000   | 94  |  |   | 268,000  | 88  | 258,000  | 86  | 247,000  | 80  | 231,000  | 78  | 213,000  | 74  |
| 81     | 4600             | 1 69             | 298,000   | 105   |  |   | 284,000  | 105   | 276,000  | 100   | 265,000  | 96  | 249,000  | 90  | 235,000  | 88  |
| 85     | 4800             | 1 84             | 310,000   | 125   |  |   | 298,000  | 115   | 290,000  | 115   | 279,000  | 110   | 267,000  | 105   | 254,000  | 100   |
| 88     | 5000             | 2 00             | 324,000   | 140   |  |   |  |   | 304,000  | 130   | 296,000  | 125   | 285,000  | 120   | 272,000  | 115   |
| 93     | 5250             | 2 20             | 340,000   | 160   |  |   |  |   | 323,000  | 150   | 315,000  | 145   | 306,000  | 145   | 294,000  | 140   |
| 97     | 5500             | 2 42             | 357,000   | 185   |  |   |  |   | 341,000  | 175   | 334,000  | 175   | 325,000  | 170   | 316,000  | 165   |
| 102    | 5750             | 2 54             | 372,000   | 205   |  |   |  |   |  |   | 350,000  | 190   | 343,000  | 185   | 334,000  | 180   |
| 106    | 6000             | 2 87             | 391,000   | 245   |  |   |  |   |  |   |  |   | 364,000  | 225   | 356,000  | 220   |
| 111    | 6250             | 3 12             | 406,000   | 275   |  |   |  |   |  |   |  |   | 382,000  | 255   | 372,000  | 250   |
| 115    | 6500             | 3 38             | 423,000   | 310   |  |   |  |   |  |   |  |   | 401,000  | 290   | 394,000  | 285   |
| 119    | 6750             | 3 63             | 440,000   | 350   |  |   |  |   |  |   |  |   |  |   | 412,000  | 320   |
| 124    | 7000             | 3 91             | 456,000   | 385   |  |   |  |   |  |   |  |   |  |   | 431,000  | 360   |
| 133    | 7500             | 4 50             | 490,000   | 480   |  |   |  |   |  |   |  |   |  |   |  |   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure<br>1" Water<br>.578 ozs. per sq. inch                     | Static Pressure<br>1 1/4" Water<br>.723 ozs. per sq. inch | Static Pressure<br>1 1/2" Water<br>.878 ozs. per sq. inch                | Static Pressure<br>1 3/4" Water<br>1.01 ozs. per sq. inch | Static Pressure<br>2" Water<br>1.16 ozs. per sq. inch                    | Static Pressure<br>2 1/4" Water<br>1.30 ozs. per sq. inch | Static Pressure<br>2 1/2" Water<br>1.45 ozs. per sq. inch                | Static Pressure<br>2 3/4" Water<br>1.60 ozs. per sq. inch | Static Pressure<br>3" Water<br>1.75 ozs. per sq. inch                    | Static Pressure<br>3 1/4" Water<br>1.90 ozs. per sq. inch | Static Pressure<br>3 1/2" Water<br>2.05 ozs. per sq. inch                | Static Pressure<br>3 3/4" Water<br>2.20 ozs. per sq. inch | Static Pressure<br>3 1/2" Water<br>2.35 ozs. per sq. inch                | Static Pressure<br>3 1/2" Water<br>2.50 ozs. per sq. inch |
| 64     | 3600             | 1 03             | 93,300  | 27  |  |   |  |   |  |   |  |   |  |   |  |   |
| 67     | 3800             | 1 15             | 121,000   | 36  |  |   |  |   |  |   |  |   |  |   |  |   |
| 71     | 4000             | 1 28             | 148,000   | 47  | 102,000  | 40  |  |   |  |   |  |   |  |   |  |   |
| 74     | 4200             | 1 41             | 172,000   | 58  | 130,000  | 48  |  |   |  |   |  |   |  |   |  |   |
| 78     | 4400             | 1 54             | 195,000   | 70  | 155,000  | 60  | 113,000  | 48  |  |   |  |   |  |   |  |   |
| 81     | 4600             | 1 69             | 219,000   | 82  | 180,000  | 74  | 141,000  | 62  |  |   |  |   |  |   |  |   |
| 85     | 4800             | 1 84             | 238,000   | 98  | 205,000  | 88  | 169,000  | 78  | 129,000  | 64  |  |   |  |   |  |   |
| 88     | 5000             | 2 00             | 258,000   | 115   | 228,000  | 105   | 194,000  | 94  | 157,000  | 82  |  |   |  |   |  |   |
| 93     | 5250             | 2 20             | 281,000   | 135   | 255,000  | 125   | 224,000  | 115   | 190,000  | 105   | 155,000  | 90  |  |   |  |   |
| 97     | 5500             | 2 42             | 304,000   | 160   | 281,000  | 150   | 252,000  | 140   | 220,000  | 130   | 189,000  | 115   | 156,000  | 100   |  |   |
| 102    | 5750             | 2 54             | 322,000   | 175   | 300,000  | 165   | 278,000  | 160   | 252,000  | 150   | 222,000  | 140   | 178,000  | 120   |  |   |
| 106    | 6000             | 2 87             | 347,000   | 210   | 327,000  | 200   | 304,000  | 190   | 278,000  | 180   | 250,000  | 170   | 222,000  | 155   | 191,000  | 140   |
| 111    | 6250             | 3 12             | 369,000   | 250   | 350,000  | 235   | 328,000  | 220   | 305,000  | 210   | 282,000  | 200   | 253,000  | 190   | 224,000  | 175   |
| 115    | 6500             | 3 38             | 388,000   | 280   | 372,000  | 270   | 350,000  | 255   | 332,000  | 245   | 309,000  | 230   | 282,000  | 220   | 257,000  | 210   |
| 119    | 6750             | 3 63             | 406,000   | 315   | 392,000  | 305   | 374,000  | 290   | 354,000  | 280   | 334,000  | 270   | 310,000  | 255   | 287,000  | 245   |
| 124    | 7000             | 3 91             | 425,000   | 355   | 412,000  | 340   | 396,000  | 330   | 377,000  | 315   | 359,000  | 305   | 338,000  | 295   | 314,000  | 280   |
| 133    | 7500             | 4 50             | 462,000   | 445   | 451,000  | 430   | 437,000  | 420   | 422,000  | 405   | 406,000  | 395   | 388,000  | 380   | 369,000  | 370   |
| 141    | 8000             | 5 11             |   |   | 489,000  | 535   | 478,000  | 520   | 465,000  | 505   | 450,000  | 490   | 434,000  | 475   | 418,000  | 465   |
| 150    | 8500             | 5 76             |   |   | 525,000  | 645   | 516,000  | 635   | 501,000  | 620   | 492,000  | 605   | 479,000  | 585   | 464,000  | 575   |
| 159    | 9000             | 6 46             |   |   | 561,000  | 780   | 551,000  | 760   | 543,000  | 750   | 532,000  | 730   | 521,000  | 715   | 507,000  | 700   |
| 168    | 9500             | 7 20             |   |   |  |   | 590,000  | 910   | 580,000  | 895   | 570,000  | 875   | 561,000  | 860   | 551,000  | 845   |
| 177    | 10000            | 7 98             |   |   |  |   | 627,000  | 1070  | 617,000  | 1050  | 608,000  | 1030  | 600,000  | 1020  | 590,000  | 1000  |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure<br>2 1/2" Water<br>2.05 ozs. per sq. inch                 | Static Pressure<br>3" Water<br>2.35 ozs. per sq. inch     | Static Pressure<br>3 1/4" Water<br>2.65 ozs. per sq. inch                | Static Pressure<br>3 1/2" Water<br>2.95 ozs. per sq. inch | Static Pressure<br>3 3/4" Water<br>3.25 ozs. per sq. inch                | Static Pressure<br>4" Water<br>3.55 ozs. per sq. inch     | Static Pressure<br>4 1/4" Water<br>3.85 ozs. per sq. inch                | Static Pressure<br>4 1/2" Water<br>4.15 ozs. per sq. inch | Static Pressure<br>4 3/4" Water<br>4.45 ozs. per sq. inch                | Static Pressure<br>4 1/2" Water<br>4.75 ozs. per sq. inch | Static Pressure<br>4 1/2" Water<br>5.05 ozs. per sq. inch                | Static Pressure<br>4 1/2" Water<br>5.35 ozs. per sq. inch | Static Pressure<br>4 1/2" Water<br>5.65 ozs. per sq. inch                | Static Pressure<br>4 1/2" Water<br>5.95 ozs. per sq. inch |
| 111    | 6250             | 3 12             | 195,000   | 160   |  |   |  |   |  |   |  |   |  |   |  |   |
| 115    | 6500             | 3 38             | 228,000   | 195   | 200,000  | 175   |  |   |  |   |  |   |  |   |  |   |
| 119    | 6750             | 3 63             | 258,000   | 225   | 233,000  | 215   |  |   |  |   |  |   |  |   |  |   |
| 124    | 7000             | 3 91             | 290,000   | 265   | 267,000  | 255   | 213,000  | 220   |  |   |  |   |  |   |  |   |
| 133    | 7500             | 4 50             | 348,000   | 355   | 326,000  | 340   | 278,000  | 305   | 230,000  | 270   |  |   |  |   |  |   |
| 141    | 8000             | 5 11             | 400,000   | 455   | 382,000  | 440   | 340,000  | 410   | 296,000  | 370   | 202,000  | 290   |  |   |  |   |
| 150    | 8500             | 5 76             | 450,000   | 560   | 432,000  | 545   | 396,000  | 515   | 355,000  | 480   | 271,000  | 405   |  |   |  |   |
| 159    | 9000             | 6 46             | 495,000   | 685   | 479,000  | 670   | 448,000  | 640   | 412,000  | 605   | 336,000  | 530   | 256,000  | 445   |  |   |
| 168    | 9500             | 7 20             | 538,000   | 825   | 525,000  | 810   | 498,000  | 775   | 466,000  | 735   | 397,000  | 670   | 323,000  | 590   | 244,000  | 485   |
| 177    | 10000            | 7 98             | 581,000   | 990   | 569,000  | 965   | 543,000  | 930   | 517,000  | 900   | 456,000  | 830   | 387,000  | 745   | 314,000  | 650   |

Single Inlet

## 400" Steel Plate Fan—Design 1

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. |
|--------|------------------|------------------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|
|        |                  |                  | Static Pressure 1/4" Water .0722 ozs. per sq. inch  |       | Static Pressure 1/2" Water .145 ozs. per sq. inch   |       | Static Pressure 3/4" Water .217 ozs. per sq. inch   |       | Static Pressure 1" Water .289 ozs. per sq. inch     |       | Static Pressure 1 1/4" Water .361 ozs. per sq. inch |       | Static Pressure 1 1/2" Water .434 ozs. per sq. inch |       | Static Pressure 1 3/4" Water .506 ozs. per sq. inch |       |
| 22     | 1400             | 0.157            | 61,300  | 2.4   |   |       |   |       |   |       |   |       |   |       |   |       |
| 25     | 1600             | 0.205            | 90,000  | 4.2   |   |       |   |       |   |       |   |       |   |       |   |       |
| 29     | 1800             | 0.259            | 115,000   | 6.5   | 56,900  | 4.05  |   |       |   |       |   |       |   |       |   |       |
| 32     | 2000             | 0.320            | 137,000   | 9.3   | 90,000  | 6.6   |   |       |   |       |   |       |   |       |   |       |
| 35     | 2200             | 0.387            | 157,000   | 13.0  | 120,000   | 10.5  | 69,100  | 7.4   |   |       |   |       |   |       |   |       |
| 38     | 2400             | 0.460            | 176,000   | 17.0  | 145,000   | 14.5  | 103,000   | 12.0  |   |       |   |       |   |       |   |       |
| 41     | 2600             | 0.540            | 194,000   | 22.5  | 168,000   | 19.5  | 132,000   | 17.0  | 90,000  | 14.5  |   |       |   |       |   |       |
| 45     | 2800             | 0.626            | 211,000   | 28    | 191,000   | 26    | 159,000   | 22.5  | 123,000   | 19.0  |   |       |   |       |   |       |
| 48     | 3000             | 0.718            | 229,000   | 35    | 211,000   | 32    | 185,000   | 29    | 152,000   | 26    | 116,000   | 21.5  |   |       |   |       |
| 51     | 3200             | 0.816            | 245,000   | 43    | 231,000   | 40    | 208,000   | 37    | 180,000   | 33    | 148,000   | 29    | 112,000   | 24.5  |   |       |
| 54     | 3400             | 0.922            | 262,000   | 52    | 249,000   | 49    | 231,000   | 45    | 206,000   | 42    | 177,000   | 38    | 142,000   | 33    | 111,000   | 28    |
| 57     | 3600             | 1.03             | 279,000   | 62    | 268,000   | 58    | 251,000   | 56    | 229,000   | 52    | 204,000   | 48    | 173,000   | 43    | 146,000   | 38    |
| 61     | 3800             | 1.15             | 296,000   | 74    | 285,000   | 70    | 272,000   | 66    | 251,000   | 62    | 229,000   | 58    | 203,000   | 54    | 176,000   | 50    |
| 64     | 4000             | 1.28             | 312,000   | 86    |   |       | 291,000   | 80    | 274,000   | 74    | 254,000   | 70    | 232,000   | 66    | 207,000   | 62    |
| 67     | 4200             | 1.41             | 329,000   | 100   |   |       | 309,000   | 94    | 294,000   | 88    | 278,000   | 84    | 256,000   | 80    | 234,000   | 76    |
| 70     | 4400             | 1.54             | 345,000   | 115   |   |       | 326,000   | 105   | 314,000   | 105   | 300,000   | 98    | 280,000   | 94    | 259,000   | 90    |
| 73     | 4600             | 1.69             | 362,000   | 130   |   |       | 345,000   | 125   | 335,000   | 120   | 322,000   | 115   | 302,000   | 110   | 286,000   | 105   |
| 76     | 4800             | 1.84             | 376,000   | 150   |   |       | 361,000   | 140   | 352,000   | 135   | 340,000   | 135   | 324,000   | 130   | 308,000   | 120   |
| 80     | 5000             | 2.00             | 394,000   | 170   |   |       |   |       | 369,000   | 160   | 359,000   | 155   | 346,000   | 145   | 330,000   | 140   |
| 84     | 5250             | 2.20             | 413,000   | 195   |   |       |   |       | 393,000   | 185   | 382,000   | 180   | 372,000   | 175   | 357,000   | 170   |
| 87     | 5500             | 2.42             | 434,000   | 230   |   |       |   |       | 415,000   | 215   | 406,000   | 210   | 395,000   | 205   | 383,000   | 200   |
| 91     | 5750             | 2.54             | 452,000   | 250   |   |       |   |       |   |       | 425,000   | 230   | 417,000   | 225   | 405,000   | 220   |
| 95     | 6000             | 2.87             | 475,000   | 295   |   |       |   |       |   |       | 446,000   | 275   | 442,000   | 270   | 433,000   | 265   |
| 99     | 6250             | 3.12             | 494,000   | 335   |   |       |   |       |   |       |   |       | 465,000   | 310   | 451,000   | 300   |
| 103    | 6500             | 3.38             | 514,000   | 375   |   |       |   |       |   |       |   |       | 488,000   | 355   | 479,000   | 345   |
| 107    | 6750             | 3.63             | 535,000   | 425   |   |       |   |       |   |       |   |       |   |       | 501,000   | 390   |
| 111    | 7000             | 3.91             | 555,000   | 470   |   |       |   |       |   |       |   |       |   |       | 524,000   | 440   |
| 119    | 7500             | 4.50             | 595,000   | 580   |   |       |   |       |   |       |   |       |   |       |   |       |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 ozs. per sq. inch     |       | Static Pressure 1 1/4" Water .723 ozs. per sq. inch |       | Static Pressure 1 1/2" Water .878 ozs. per sq. inch |       | Static Pressure 1 3/4" Water 1.01 ozs. per sq. inch |       | Static Pressure 2" Water 1.16 ozs. per sq. inch     |       | Static Pressure 2 1/4" Water 1.30 ozs. per sq. inch |       | Static Pressure 2 1/2" Water 1.45 ozs. per sq. inch |       |
| 57     | 3600             | 1.03             | 114,000   | 32    |   |       |   |       |   |       |   |       |   |       |   |       |
| 61     | 3800             | 1.15             | 147,000   | 44    |   |       |   |       |   |       |   |       |   |       |   |       |
| 64     | 4000             | 1.28             | 180,000   | 56    | 124,000   | 48    |   |       |   |       |   |       |   |       |   |       |
| 67     | 4200             | 1.41             | 209,000   | 70    | 158,000   | 58    |   |       |   |       |   |       |   |       |   |       |
| 70     | 4400             | 1.54             | 237,000   | 84    | 188,000   | 72    | 137,000   | 58    |   |       |   |       |   |       |   |       |
| 73     | 4600             | 1.69             | 266,000   | 98    | 219,000   | 90    | 172,000   | 76    |   |       |   |       |   |       |   |       |
| 76     | 4800             | 1.84             | 289,000   | 120   | 249,000   | 105   | 205,000   | 94    | 156,000   | 78    |   |       |   |       |   |       |
| 80     | 5000             | 2.00             | 314,000   | 135   | 277,000   | 125   | 236,000   | 115   | 191,000   | 98    |   |       |   |       |   |       |
| 84     | 5250             | 2.20             | 341,000   | 160   | 309,000   | 150   | 273,000   | 140   | 230,000   | 125   | 188,000   | 110   |   |       |   |       |
| 87     | 5500             | 2.42             | 370,000   | 190   | 341,000   | 180   | 306,000   | 170   | 268,000   | 155   | 230,000   | 140   | 189,000   | 125   |   |       |
| 91     | 5750             | 2.54             | 392,000   | 215   | 364,000   | 205   | 337,000   | 195   | 306,000   | 180   | 269,000   | 170   | 216,000   | 150   |   |       |
| 95     | 6000             | 2.87             | 422,000   | 260   | 397,000   | 245   | 369,000   | 230   | 338,000   | 220   | 304,000   | 205   | 269,000   | 190   | 232,000   | 170   |
| 99     | 6250             | 3.12             | 448,000   | 300   | 425,000   | 285   | 398,000   | 270   | 371,000   | 255   | 343,000   | 240   | 307,000   | 230   | 273,000   | 210   |
| 103    | 6500             | 3.38             | 471,000   | 340   | 451,000   | 325   | 425,000   | 310   | 403,000   | 300   | 375,000   | 280   | 343,000   | 270   | 312,000   | 255   |
| 107    | 6750             | 3.63             | 494,000   | 385   | 476,000   | 370   | 454,000   | 350   | 431,000   | 340   | 405,000   | 330   | 376,000   | 310   | 349,000   | 295   |
| 111    | 7000             | 3.91             | 517,000   | 435   | 501,000   | 415   | 480,000   | 400   | 459,000   | 385   | 435,000   | 370   | 410,000   | 360   | 381,000   | 340   |
| 119    | 7500             | 4.50             | 561,000   | 540   | 549,000   | 525   | 531,000   | 510   | 512,000   | 490   | 494,000   | 480   | 471,000   | 465   | 448,000   | 445   |
| 127    | 8000             | 5.11             |   |       | 594,000   | 650   | 580,000   | 635   | 565,000   | 615   | 547,000   | 595   | 526,000   | 575   | 508,000   | 565   |
| 135    | 8500             | 5.76             |   |       | 637,000   | 785   | 626,000   | 770   | 610,000   | 750   | 598,000   | 735   | 582,000   | 715   | 564,000   | 695   |
| 143    | 9000             | 6.46             |   |       | 681,000   | 945   | 670,000   | 925   | 660,000   | 910   | 646,000   | 890   | 634,000   | 870   | 616,000   | 850   |
| 151    | 9500             | 7.20             |   |       |   |       | 716,000   | 1110  | 705,000   | 1090  | 693,000   | 1060  | 681,000   | 1050  | 670,000   | 1030  |
| 159    | 10000            | 7.98             |   |       |   |       | 761,000   | 1300  | 750,000   | 1270  | 739,000   | 1250  | 729,000   | 1240  | 717,000   | 1220  |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 2 1/4" Water 1.59 ozs. per sq. inch |       | Static Pressure 2 1/2" Water 1.73 ozs. per sq. inch |       | Static Pressure 2 3/4" Water 2.02 ozs. per sq. inch |       | Static Pressure 3" Water 2.31 ozs. per sq. inch     |       | Static Pressure 3 1/4" Water 2.59 ozs. per sq. inch |       | Static Pressure 3 1/2" Water 2.89 ozs. per sq. inch |       | Static Pressure 3 3/4" Water 3.47 ozs. per sq. inch |       |
| 99     | 6250             | 3.12             | 237,000   | 190   |   |       |   |       |   |       |   |       |   |       |   |       |
| 103    | 6500             | 3.38             | 277,000   | 235   | 242,000   | 215   |   |       |   |       |   |       |   |       |   |       |
| 107    | 6750             | 3.63             | 314,000   | 275   | 283,000   | 260   |   |       |   |       |   |       |   |       |   |       |
| 111    | 7000             | 3.91             | 352,000   | 325   | 324,000   | 310   | 259,000   | 265   |   |       |   |       |   |       |   |       |
| 119    | 7500             | 4.50             | 423,000   | 430   | 396,000   | 415   | 338,000   | 375   | 280,000   | 330   |   |       |   |       |   |       |
| 127    | 8000             | 5.11             | 486,000   | 550   | 463,000   | 530   | 414,000   | 495   | 359,000   | 450   | 246,000   | 350   |   |       |   |       |
| 135    | 8500             | 5.76             | 547,000   | 685   | 525,000   | 660   | 480,000   | 630   | 432,000   | 585   | 329,000   | 490   |   |       |   |       |
| 143    | 9000             | 6.46             | 601,000   | 835   | 581,000   | 815   | 545,000   | 775   | 501,000   | 735   | 409,000   | 645   | 311,000   | 540   |   |       |
| 151    | 9500             | 7.20             | 654,000   | 1000  | 638,000   | 985   | 605,000   | 945   | 566,000   | 895   | 482,000   | 815   | 303,000   | 715   | 286,000   | 595   |
| 159    | 10000            | 7.98             | 706,000   | 1200  | 691,000   | 1170  | 660,000   | 1130  | 628,000   | 1100  | 554,000   | 1010  | 470,000   | 905   | 381,000   | 785   |

| Double Inlet   |                  |                  | 50" Steel Plate Fan—Design 1                       |   |   |   |   |   |   |       |               |       | Single Width  |       |               |       |
|--|------------------|------------------|--|---|---|---|---|---|---|-------|---------------|-------|---------------|-------|---------------|-------|
| When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances |                  |                  |  |   |   |   |   |   |   |       |               |       |               |       |               |       |
| R.P.M.   | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.                                      | H. P.   | Volume C.F.M.                                     | H. P.   | Volume C.F.M.                                       | H. P.   | Volume C.F.M.                                       | H. P. | Volume C.F.M. | H. P. | Volume C.F.M. | H. P. | Volume C.F.M. | H. P. |
|  |                  |                  | Static Pressure 1/2" Water .0722 ozs. per sq. inch | Static Pressure 1/2" Water .145 ozs. per sq. inch | Static Pressure 3/4" Water .217 ozs. per sq. inch | Static Pressure 1" Water .289 ozs. per sq. inch | Static Pressure 1 1/4" Water .361 ozs. per sq. inch | Static Pressure 1 1/2" Water .434 ozs. per sq. inch | Static Pressure 1 3/4" Water .506 ozs. per sq. inch |       |               |       |               |       |               |       |
| 178  | 1400             | 0 147            | 1,060 0 042  |   |   |   |   |   |   |       |               |       |               |       |               |       |
| 204  | 1600             | 0 191            | 1,530 0 073  |   |   |   |   |   |   |       |               |       |               |       |               |       |
| 220  | 1800             | 0 242            | 1,960 0 115  |   |   |   |   |   |   |       |               |       |               |       |               |       |
| 255  | 2000             | 0 269            | 2,360 0 170  | 1,540 0 120                                       |   |   |   |   |   |       |               |       |               |       |               |       |
| 280  | 2200             | 0 362            | 2,730 0 235  | 2,020 0 185                                       |   |   |   |   |   |       |               |       |               |       |               |       |
| 306  | 2400             | 0 430            | 3,090 0 315  | 2,460 0 260                                       | 1,760 0 205                                       |   |   |   |   |       |               |       |               |       |               |       |
| 331  | 2600             | 0 505            | 3,450 0 41   | 2,880 0 350                                       | 2,250 0 290                                       |   |   |   |   |       |               |       |               |       |               |       |
| 356  | 2800             | 0 585            | 3,770 0 52   | 3,270 0 455                                       | 2,710 0 395                                       | 1,500 0 225                                     |   |   |   |       |               |       |               |       |               |       |
| 382  | 3000             | 0 673            | 4,120 0 66   | 3,640 0 58  | 3,150 0 52  | 2,100 0 325                                     |   |   |   |       |               |       |               |       |               |       |
| 407  | 3200             | 0 765            | 4,450 0 81   | 4,010 0 72  | 3,550 0 66  | 2,590 0 45                                      | 1,990 0 385   |   |   |       |               |       |               |       |               |       |
| 433  | 3400             | 0 864            | 4,790 0 98   | 4,380 0 89  | 3,960 0 82  | 3,050 0 59                                      | 2,530 0 51  | 1,890 0 43  |   |       |               |       |               |       |               |       |
| 458  | 3600             | 0 969            | 5,110 1 20   | 4,730 1 10  | 4,320 1 00  | 3,500 0 74                                      | 3,000 0 66  | 2,490 0 59  |   |       |               |       |               |       |               |       |
| 484  | 3800             | 1 08             | 5,450 1 40   | 5,060 1 30  | 4,710 1 20  | 3,900 0 92                                      | 3,460 0 84  | 3,000 0 76  | 2,490 0 67  |       |               |       |               |       |               |       |
| 510  | 4000             | 1 20             | 5,740 1 65   | 5,430 1 55  | 5,080 1 45  | 4,320 1 10                                      | 3,900 1 05  | 3,480 0 95  | 3,020 0 86  |       |               |       |               |       |               |       |
| 535  | 4200             | 1 32             | 6,070 1 90   |   | 5,400 1 7   | 4,710 1 35                                      | 4,320 1 25  | 3,940 1 15  | 3,520 1 10  |       |               |       |               |       |               |       |
| 560  | 4400             | 1 45             | 6,400 2 20   |   | 5,780 2 0   | 5,080 1 60                                      | 4,730 1 50  | 4,350 1 40  | 3,960 1 30  |       |               |       |               |       |               |       |
| 585  | 4600             | 1 58             | 6,710 2 50   |   |   | 5,450 1 90                                      | 5,110 1 80  | 4,790 1 70  | 4,410 1 60  |       |               |       |               |       |               |       |
| 611  | 4800             | 1 72             | 7,030 2 90   |   | 6,130 2 3   | 5,840 2 20                                      | 5,500 2 05  | 5,170 1 95  | 4,820 1 85  |       |               |       |               |       |               |       |
| 636  | 5000             | 1 87             | 7,360 3 30   |   | 6,450 2 6   | 6,180 2 50                                      | 5,870 2 40  | 5,570 2 30  | 5,240 2 20  |       |               |       |               |       |               |       |
| 669  | 5250             | 2 06             | 7,750 3 80   |   | 6,800 3   | 6,530 2 90                                      | 6,250 2 75  | 5,960 2 65  | 5,660 2 55  |       |               |       |               |       |               |       |
| 700  | 5500             | 2 26             | 8,110 4 35   |   |   | 6,950 3 40                                      | 6,700 3 25  | 6,420 3 20  | 6,150 3 05  |       |               |       |               |       |               |       |
| 732  | 5750             | 2 47             | 8,500 5 0  |   |   | 7,400 3 95                                      | 7,140 3 85  | 6,880 3 70  | 6,600 3 55  |       |               |       |               |       |               |       |
| 765  | 6000             | 2 69             | 8,900 5 7  |   |   | 7,850 4 55                                      | 7,600 4 4   | 7,320 4 30  | 7,100 4 15  |       |               |       |               |       |               |       |
| 795  | 6250             | 2 92             | 9,290 6 5  |   |   |   | 8,000 5 1   | 7,760 4 95  | 7,540 4 8   |       |               |       |               |       |               |       |
| 823  | 6500             | 3 16             | 9,690 7 3  |   |   |   | 8,410 5 8   | 8,200 5 7   | 8,000 5 5   |       |               |       |               |       |               |       |
| 860  | 6750             | 3 40             | 10,100 8 2   |   |   |   |   |   |   |       |               |       |               |       |               |       |
| 891  | 7000             | 3 66             | 10,400 9 1   |   |   |   |   |   |   |       |               |       |               |       |               |       |
| 955  | 7500             | 4 20             | 11,200 11 5  |   |   |   |   |   |   |       |               |       |               |       |               |       |
|  |                  |                  |  |   |   |   |   |   |   |       |               |       |               |       |               |       |
|  |                  |                  |  |   |   |   |   |   |   |       |               |       |               |       |               |       |
|  |                  |                  |  |   |   |   |   |   |   |       |               |       |               |       |               |       |
|  |                  |                  |  |   |   |   |   |   |   |       |               |       |               |       |               |       |
|  |                  |                  |  |   |   |   |   |   |   |       |               |       |               |       |               |       |
|  |                  |                  |  |   |   |   |   |   |   |       |               |       |               |       |               |       |
|  |                  |                  |  |   |   |   |   |   |   |       |               |       |               |       |               |       |
|  |                  |                  |  |   |   |   |   |   |   |       |               |       |               |       |               |       |
|  |                  |                  |  |   |   |   |   |   |   |       |               |       |               |       |               |       |
|  |                  |                  |  |   |   |   |   |   |   |       |               |       |               |       |               |       |
|  |                  |                  |  |   |   |   |   |   |   |       |               |       |               |       |               |       |
|  |                  |                  |  |   |   |   |   |   |   |       |               |       |               |       |               |       |
|  |                  |                  |  |   |   |   |   |   |   |       |               |       |               |       |               |       |
|  |                  |                  |  |   |   |   |   |   |   |       |               |       |               |       |               |       |
|  |                  |                  |  |   |   |   |   |   |   |       |               |       |               |       |               |       |
|  |                  |                  |  |   |   |   |   |   |   |       |               |       |               |       |               |       |
|  |                  |                  |  |   |   |   |   |   |   |       |               |       |               |       |               |       |
|  |                  |                  |  |   |   |   |   |   |   |       |               |       |               |       |               |       |
|  |                  |                  |  |   |   |   |   |   |   |       |               |       |               |       |               |       |
|  |                  |                  |  |   |   |   |   |   |   |       |               |       |               |       |               |       |
|  |                  |                  |  |   |   |   |   |   |   |       |               |       |               |       |               |       |
|  |                  |                  |  |   |   |   |   |   |   |       |               |       |               |       |               |       |
|  |                  |                  |  |   |   |   |   |   |   |       |               |       |               |       |               |       |
|  |                  |                  |  |   |   |   |   |   |   |       |               |       |               |       |               |       |
|  |                  |                  |  |   |   |   |   |   |   |       |               |       |               |       |               |       |
|  |                  |                  |  |   |   |   |   |   |   |       |               |       |               |       |               |       |
|  |                  |                  |  |   |   |   |   |   |   |       |               |       |               |       |               |       |
|  |                  |                  |  |   |   |   |   |   |   |       |               |       |               |       |               |       |
|  |                  |                  |  |   |   |   |   |   |   |       |               |       |               |       |               |       |
|  |                  |                  |  |   |   |   |   |   |   |       |               |       |               |       |               |       |
|  |                  |                  |  |   |   |   |   |   |   |       |               |       |               |       |               |       |
|  |                  |                  |  |   |   |   |   |   |   |       |               |       |               |       |               |       |
|  |                  |                  |  |   |   |   |   |   |   |       |               |       |               |       |               |       |
|  |                  |                  |  |   |   |   |   |   |   |       |               |       |               |       |               |       |
|  |                  |                  |  |   |   |   |   |   |   |       |               |       |               |       |               |       |
|  |                  |                  |  |   |   |   |   |   |   |       |               |       |               |       |               |       |
|  |                  |                  |  |   |   |   |   |   |   |       |               |       |               |       |               |       |
|  |                  |                  |  |   |   |   |   |   |   |       |               |       |               |       |               |       |
|  |                  |                  |  |   |   |   |   |   |   |       |               |       |               |       |               |       |
|  |                  |                  |  |   |   |   |   |   |   |       |               |       |               |       |               |       |
|  |                  |                  |  |   |   |   |   |   |   |       |               |       |               |       |               |       |
|  |                  |                  |  |   |   |   |   |   |   |       |               |       |               |       |               |       |
|  |                  |                  |  |   |   |   |   |   |   |       |               |       |               |       |               |       |
|  |                  |                  |  |   |   |   |   |   |   |       |               |       |               |       |               |       |
|  |                  |                  |  |   |   |   |   |   |   |       |               |       |               |       |               |       |
|  |                  |                  |  |   |   |   |   |   |   |       | </            |       |               |       |               |       |

Single Inlet

**400" Steel Plate Fan—Design 1**

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. |
|--------|------------------|------------------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|
|        |                  |                  | Static Pressure 1/4" Water .0722 ozs. per sq. inch  |       | Static Pressure 1/2" Water .145 ozs. per sq. inch   |       | Static Pressure 3/4" Water .217 ozs. per sq. inch   |       | Static Pressure 1" Water .289 ozs. per sq. inch     |       | Static Pressure 1 1/4" Water .361 ozs. per sq. inch |       | Static Pressure 1 1/2" Water .434 ozs. per sq. inch |       | Static Pressure 1 3/4" Water .506 ozs. per sq. inch |       |
| 22     | 1400             | 0.157            | 61,300  | 2.4   |   |       |   |       |   |       |   |       |   |       |   |       |
| 25     | 1600             | 0.205            | 90,000  | 4.2   |   |       |   |       |   |       |   |       |   |       |   |       |
| 29     | 1800             | 0.259            | 115,000   | 6.5   | 56,900  | 4.05  |   |       |   |       |   |       |   |       |   |       |
| 32     | 2000             | 0.320            | 137,000   | 9.3   | 90,000  | 6.6   |   |       |   |       |   |       |   |       |   |       |
| 35     | 2200             | 0.387            | 157,000   | 13.0  | 120,000   | 10.5  | 69,100  | 7.4   |   |       |   |       |   |       |   |       |
| 38     | 2400             | 0.460            | 176,000   | 17.0  | 145,000   | 14.5  | 103,000   | 12.0  |   |       |   |       |   |       |   |       |
| 41     | 2600             | 0.540            | 194,000   | 22.5  | 168,000   | 19.5  | 132,000   | 17.0  | 90,000  | 14.5  |   |       |   |       |   |       |
| 45     | 2800             | 0.626            | 211,000   | 28    | 191,000   | 26    | 159,000   | 22.5  | 123,000   | 19.0  |   |       |   |       |   |       |
| 48     | 3000             | 0.718            | 229,000   | 35    | 211,000   | 32    | 185,000   | 29    | 152,000   | 26    | 116,000   | 21.5  |   |       |   |       |
| 51     | 3200             | 0.816            | 245,000   | 43    | 231,000   | 40    | 208,000   | 37    | 180,000   | 33    | 148,000   | 29    | 112,000   | 24.5  |   |       |
| 54     | 3400             | 0.922            | 262,000   | 52    | 249,000   | 49    | 231,000   | 45    | 206,000   | 42    | 177,000   | 38    | 142,000   | 33    | 111,000   | 28    |
| 57     | 3600             | 1.03             | 279,000   | 62    | 268,000   | 58    | 251,000   | 56    | 229,000   | 52    | 204,000   | 48    | 173,000   | 43    | 146,000   | 38    |
| 61     | 3800             | 1.15             | 296,000   | 74    | 285,000   | 70    | 272,000   | 66    | 251,000   | 62    | 229,000   | 58    | 203,000   | 54    | 176,000   | 50    |
| 64     | 4000             | 1.28             | 312,000   | 86    |   |       | 291,000   | 80    | 274,000   | 74    | 254,000   | 70    | 232,000   | 66    | 207,000   | 62    |
| 67     | 4200             | 1.41             | 329,000   | 100   |   |       | 309,000   | 94    | 294,000   | 88    | 278,000   | 84    | 256,000   | 80    | 234,000   | 76    |
| 70     | 4400             | 1.54             | 345,000   | 115   |   |       | 326,000   | 105   | 314,000   | 105   | 300,000   | 98    | 280,000   | 94    | 259,000   | 90    |
| 73     | 4600             | 1.69             | 362,000   | 130   |   |       | 345,000   | 125   | 335,000   | 120   | 322,000   | 115   | 302,000   | 110   | 286,000   | 105   |
| 76     | 4800             | 1.84             | 376,000   | 150   |   |       | 361,000   | 140   | 352,000   | 135   | 340,000   | 135   | 324,000   | 130   | 308,000   | 120   |
| 80     | 5000             | 2.00             | 394,000   | 170   |   |       |   |       | 369,000   | 160   | 359,000   | 155   | 346,000   | 145   | 330,000   | 140   |
| 84     | 5250             | 2.20             | 413,000   | 195   |   |       |   |       | 393,000   | 185   | 382,000   | 180   | 372,000   | 175   | 357,000   | 170   |
| 87     | 5500             | 2.42             | 434,000   | 230   |   |       |   |       | 415,000   | 215   | 406,000   | 210   | 395,000   | 205   | 383,000   | 200   |
| 91     | 5750             | 2.54             | 452,000   | 250   |   |       |   |       |   |       | 425,000   | 230   | 417,000   | 225   | 405,000   | 220   |
| 95     | 6000             | 2.87             | 475,000   | 295   |   |       |   |       |   |       | 446,000   | 275   | 442,000   | 270   | 433,000   | 265   |
| 99     | 6250             | 3.12             | 494,000   | 335   |   |       |   |       |   |       |   |       | 465,000   | 310   | 451,000   | 300   |
| 103    | 6500             | 3.38             | 514,000   | 375   |   |       |   |       |   |       |   |       | 488,000   | 355   | 479,000   | 345   |
| 107    | 6750             | 3.63             | 535,000   | 425   |   |       |   |       |   |       |   |       |   |       | 501,000   | 390   |
| 111    | 7000             | 3.91             | 555,000   | 470   |   |       |   |       |   |       |   |       |   |       | 524,000   | 440   |
| 119    | 7500             | 4.50             | 595,000   | 580   |   |       |   |       |   |       |   |       |   |       |   |       |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 ozs. per sq. inch     |       | Static Pressure 1 1/4" Water .723 ozs. per sq. inch |       | Static Pressure 1 1/2" Water .878 ozs. per sq. inch |       | Static Pressure 1 3/4" Water 1.01 ozs. per sq. inch |       | Static Pressure 2" Water 1.16 ozs. per sq. inch     |       | Static Pressure 2 1/4" Water 1.30 ozs. per sq. inch |       | Static Pressure 2 1/2" Water 1.45 ozs. per sq. inch |       |
| 57     | 3600             | 1.03             | 114,000   | 32    |   |       |   |       |   |       |   |       |   |       |   |       |
| 61     | 3800             | 1.15             | 147,000   | 44    |   |       |   |       |   |       |   |       |   |       |   |       |
| 64     | 4000             | 1.28             | 180,000   | 56    | 124,000   | 48    |   |       |   |       |   |       |   |       |   |       |
| 67     | 4200             | 1.41             | 209,000   | 70    | 158,000   | 58    |   |       |   |       |   |       |   |       |   |       |
| 70     | 4400             | 1.54             | 237,000   | 84    | 188,000   | 72    | 137,000   | 58    |   |       |   |       |   |       |   |       |
| 73     | 4600             | 1.69             | 266,000   | 98    | 219,000   | 90    | 172,000   | 76    |   |       |   |       |   |       |   |       |
| 76     | 4800             | 1.84             | 289,000   | 120   | 249,000   | 105   | 205,000   | 94    | 156,000   | 78    |   |       |   |       |   |       |
| 80     | 5000             | 2.00             | 314,000   | 135   | 277,000   | 125   | 236,000   | 115   | 191,000   | 98    |   |       |   |       |   |       |
| 84     | 5250             | 2.20             | 341,000   | 160   | 309,000   | 150   | 273,000   | 140   | 230,000   | 125   | 188,000   | 110   |   |       |   |       |
| 87     | 5500             | 2.42             | 370,000   | 190   | 341,000   | 180   | 306,000   | 170   | 268,000   | 155   | 230,000   | 140   | 189,000   | 125   |   |       |
| 91     | 5750             | 2.54             | 392,000   | 215   | 364,000   | 205   | 337,000   | 195   | 306,000   | 180   | 269,000   | 170   | 216,000   | 150   |   |       |
| 95     | 6000             | 2.87             | 422,000   | 260   | 397,000   | 245   | 369,000   | 230   | 338,000   | 220   | 304,000   | 205   | 269,000   | 190   | 232,000   | 170   |
| 99     | 6250             | 3.12             | 448,000   | 300   | 425,000   | 285   | 398,000   | 270   | 371,000   | 255   | 343,000   | 240   | 307,000   | 230   | 273,000   | 210   |
| 103    | 6500             | 3.38             | 471,000   | 340   | 451,000   | 325   | 425,000   | 310   | 403,000   | 300   | 375,000   | 280   | 343,000   | 270   | 312,000   | 255   |
| 107    | 6750             | 3.63             | 494,000   | 385   | 476,000   | 370   | 454,000   | 350   | 431,000   | 340   | 405,000   | 330   | 376,000   | 310   | 349,000   | 295   |
| 111    | 7000             | 3.91             | 517,000   | 435   | 501,000   | 415   | 480,000   | 400   | 459,000   | 385   | 435,000   | 370   | 410,000   | 360   | 381,000   | 340   |
| 119    | 7500             | 4.50             | 561,000   | 540   | 549,000   | 525   | 531,000   | 510   | 512,000   | 490   | 494,000   | 480   | 471,000   | 465   | 448,000   | 445   |
| 127    | 8000             | 5.11             |   |       | 594,000   | 650   | 580,000   | 635   | 565,000   | 615   | 547,000   | 595   | 528,000   | 575   | 508,000   | 565   |
| 135    | 8500             | 5.76             |   |       | 637,000   | 785   | 626,000   | 770   | 610,000   | 750   | 598,000   | 735   | 582,000   | 715   | 564,000   | 695   |
| 143    | 9000             | 6.46             |   |       | 681,000   | 945   | 670,000   | 925   | 660,000   | 910   | 646,000   | 890   | 634,000   | 870   | 616,000   | 850   |
| 151    | 9500             | 7.20             |   |       |   |       | 716,000   | 1110  | 705,000   | 1090  | 693,000   | 1060  | 681,000   | 1050  | 670,000   | 1030  |
| 159    | 10000            | 7.98             |   |       |   |       | 761,000   | 1300  | 750,000   | 1270  | 739,000   | 1250  | 729,000   | 1240  | 717,000   | 1220  |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 2 1/4" Water 1.59 ozs. per sq. inch |       | Static Pressure 2 1/2" Water 1.73 ozs. per sq. inch |       | Static Pressure 2 3/4" Water 2.02 ozs. per sq. inch |       | Static Pressure 3" Water 2.31 ozs. per sq. inch     |       | Static Pressure 3 1/4" Water 2.59 ozs. per sq. inch |       | Static Pressure 3 1/2" Water 2.89 ozs. per sq. inch |       | Static Pressure 3 3/4" Water 3.47 ozs. per sq. inch |       |
| 99     | 6250             | 3.12             | 237,000   | 190   |   |       |   |       |   |       |   |       |   |       |   |       |
| 103    | 6500             | 3.38             | 277,000   | 235   | 242,000   | 215   |   |       |   |       |   |       |   |       |   |       |
| 107    | 6750             | 3.63             | 314,000   | 275   | 283,000   | 260   |   |       |   |       |   |       |   |       |   |       |
| 111    | 7000             | 3.91             | 352,000   | 325   | 324,000   | 310   | 259,000   | 265   |   |       |   |       |   |       |   |       |
| 119    | 7500             | 4.50             | 423,000   | 430   | 396,000   | 415   | 338,000   | 375   | 280,000   | 330   |   |       |   |       |   |       |
| 127    | 8000             | 5.11             | 486,000   | 550   | 463,000   | 530   | 414,000   | 495   | 359,000   | 450   | 246,000   | 350   |   |       |   |       |
| 135    | 8500             | 5.76             | 547,000   | 685   | 525,000   | 660   | 480,000   | 630   | 432,000   | 585   | 329,000   | 490   |   |       |   |       |
| 143    | 9000             | 6.46             | 601,000   | 835   | 581,000   | 815   | 545,000   | 775   | 501,000   | 735   | 409,000   | 645   | 311,000   | 540   |   |       |
| 151    | 9500             | 7.20             | 654,000   | 1000  | 638,000   | 985   | 605,000   | 945   | 566,000   | 895   | 482,000   | 815   | 303,000   | 715   | 286,000   | 595   |
| 159    | 10000            | 7.98             | 706,000   | 1200  | 691,000   | 1170  | 660,000   | 1130  | 628,000   | 1100  | 554,000   | 1010  | 470,000   | 905   | 381,000   | 785   |



| Double Inlet   |                  | 60" Steel Plate Fan—Design 1 |   |   |   |   |   |   |   |       |               | Single Width |               |        |      |
|--|------------------|------------------------------|---|---|---|---|---|---|---|-------|---------------|--------------|---------------|--------|------|
| When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances |                  |                              |   |   |   |   |   |   |   |       |               |              |               |        |      |
| R.P.M.   | Tip Speed F.P.M. | S.N.D. in inches             | Volume C.F.M.                                       | H. P.   | Volume C.F.M.                                       | H. P.   | Volume C.F.M.                                       | H. P.   | Volume C.F.M.                                       | H. P. | Volume C.F.M. | H. P.        | Volume C.F.M. | H. P.  |      |
|  |                  |                              | Static Pressure 1/2" Water .0722 ozs. per sq. inch  | Static Pressure 1/2" Water .145 ozs. per sq. inch   | Static Pressure 3/4" Water .217 ozs. per sq. inch   | Static Pressure 1" Water .289 ozs. per sq. inch     | Static Pressure 1 1/4" Water .361 ozs. per sq. inch | Static Pressure 1 1/2" Water .434 ozs. per sq. inch | Static Pressure 1 3/4" Water .506 ozs. per sq. inch |       |               |              |               |        |      |
| 148  | 1400             | 0 147                        | 1,620   | 0 064   |   |   |   |   |   |       |               |              |               |        |      |
| 170  | 1600             | 0 191                        | 2,340   | 0 100   |   |   |   |   |   |       |               |              |               |        |      |
| 191  | 1800             | 0 242                        | 3,000   | 0 175   |   |   |   |   |   |       |               |              |               |        |      |
| 212  | 2000             | 0 299                        | 3,610   | 0 26  | 2,360   | 0 185   |   |   |   |       |               |              |               |        |      |
| 233  | 2200             | 0 362                        | 4,190   | 0 36  | 3,100   | 0 285   |   |   |   |       |               |              |               |        |      |
| 254  | 2400             | 0 430                        | 4,740   | 0 48  | 3,780   | 0 40  | 2,690   | 0 315   |   |       |               |              |               |        |      |
| 276  | 2600             | 0 505                        | 5,290   | 0 63  | 4,410   | 0 54  | 3,460   | 0 445   | 2,300   | 0 345 |               |              |               |        |      |
| 297  | 2800             | 0 585                        | 5,790   | 0 80  | 5,000   | 0 70  | 4,160   | 0 61  | 3,220   | 0 50  |               |              |               |        |      |
| 318  | 3000             | 0 673                        | 6,310   | 1 00  | 5,590   | 0 89  | 4,820   | 0 80  | 3,970   | 0 69  | 3,040         | 0 59         |               |        |      |
| 339  | 3200             | 0 765                        | 6,820   | 1 25  | 6,150   | 1 10  | 5,440   | 1 00  | 4,680   | 0 90  | 3,880         | 0 78         | 2,900         | 0 66   |      |
| 360  | 3400             | 0 864                        | 7,330   | 1 50  | 6,710   | 1 35  | 6,060   | 1 25  | 5,360   | 1 15  | 4,600         | 1 00         | 3,820         | 0 89   |      |
| 382  | 3600             | 0 960                        | 7,840   | 1 80  | 7,250   | 1 65  | 6,620   | 1 55  | 5,980   | 1 40  | 5,310         | 1 30         | 4,600         | 1 15   |      |
| 403  | 3800             | 1 08                         | 8,350   | 2 15  | 7,750   | 1 95  | 7,210   | 1 85  | 6,630   | 1 70  | 5,980         | 1 60         | 5,330         | 1 45   |      |
| 425  | 4000             | 1 20                         | 8,800   | 2 50  | 8,320   | 2 35  | 7,780   | 2 20  | 7,210   | 2 05  | 6,630         | 1 95         | 6,030         | 1 80   |      |
| 446  | 4200             | 1 32                         | 9,300   | 2 90  |   |   | 8,290   | 2 60  | 7,780   | 2 45  | 7,250         | 2 30         | 6,650         | 2 15   |      |
| 468  | 4400             | 1 45                         | 9,810   | 3 40  |   |   | 8,850   | 3 05  | 8,350   | 2 90  | 7,840         | 2 70         | 7,330         | 2 60   |      |
| 488  | 4600             | 1 58                         | 10,300  | 3 85  |   |   | 9,390   | 3 5   | 8,940   | 3 35  | 8,430         | 3 20         | 7,920         | 3 00   |      |
| 509  | 4800             | 1 72                         | 10,800  | 4 5   |   |   | 9,900   | 4 0   | 9,470   | 3 85  | 9,000         | 3 65         | 8,550         | 3 50   |      |
| 530  | 5000             | 1 87                         | 11,300  | 5 0   |   |   | 10,400  | 4 6   | 10,000  | 4 45  | 9,590         | 4 25         | 9,140         | 4 05   |      |
| 556  | 5250             | 2 06                         | 11,900  | 5 8   |   |   |   |   | 10,700  | 5 2   | 10,300        | 5 0          | 9,840         | 4 85   |      |
| 584  | 5500             | 2 26                         | 12,400  | 6 7   |   |   |   |   | 11,400  | 6     | 10,900        | 5 9          | 10,500        | 5 7    |      |
| 610  | 5750             | 2 47                         | 13,000  | 7 7   |   |   |   |   | 12,000  | 7     | 11,600        | 6 8          | 11,200        | 6 6    |      |
| 636  | 6000             | 2 69                         | 13,700  | 8 7   |   |   |   |   |   |       | 12,300        | 7 8          | 11,900        | 7 6    |      |
| 662  | 6250             | 2 92                         | 14,200  | 9 9   |   |   |   |   |   |       | 12,800        | 8 9          | 12,600        | 8 7    |      |
| 690  | 6500             | 3 16                         | 14,800  | 11 0  |   |   |   |   |   |       |               |              | 13,300        | 9 9    |      |
| 715  | 6750             | 3 40                         | 15,500  | 12 5  |   |   |   |   |   |       |               |              | 13,900        | 11 0   |      |
| 742  | 7000             | 3 66                         | 16,000  | 14 0  |   |   |   |   |   |       |               |              | 14,600        | 12 5   |      |
| 795  | 7500             | 4 20                         | 17,200  | 17 5  |   |   |   |   |   |       |               |              |               | 15,600 | 15 5 |
| R.P.M.   | Tip Speed F.P.M. | S.N.D. in inches             | Static Pressure 1" Water .578 ozs. per sq. inch     | Static Pressure 1 1/4" Water .723 ozs. per sq. inch | Static Pressure 1 1/2" Water .878 ozs. per sq. inch | Static Pressure 1 3/4" Water 1.01 ozs. per sq. inch | Static Pressure 2" Water 1.16 ozs. per sq. inch     | Static Pressure 2 1/4" Water 1.30 ozs. per sq. inch | Static Pressure 2 1/2" Water 1.45 ozs. per sq. inch |       |               |              |               |        |      |
| 403  | 3800             | 1 08                         | 3,880   | 1 15  |   |   |   |   |   |       |               |              |               |        |      |
| 425  | 4000             | 1 20                         | 4,720   | 1 50  |   |   |   |   |   |       |               |              |               |        |      |
| 445  | 4200             | 1 32                         | 5,480   | 1 85  | 4,120   | 1 55  |   |   |   |       |               |              |               |        |      |
| 468  | 4400             | 1 45                         | 6,200   | 2 25  | 4,990   | 1 95  |   |   |   |       |               |              |               |        |      |
| 488  | 4600             | 1 58                         | 6,880   | 2 70  | 5,750   | 2 40  | 4,460   | 2 00  |   |       |               |              |               |        |      |
| 509  | 4800             | 1 72                         | 7,530   | 3 20  | 6,510   | 2 85  | 5,370   | 2 50  | 3,880   | 2 10  |               |              |               |        |      |
| 530  | 5000             | 1 87                         | 8,200   | 3 75  | 7,210   | 3 40  | 6,170   | 3 00  | 5,010   | 2 65  |               |              |               |        |      |
| 556  | 5250             | 2 06                         | 9,000   | 4 45  | 8,060   | 4 10  | 7,100   | 3 75  | 6,060   | 3 35  | 4,740         | 2 85         |               |        |      |
| 584  | 5500             | 2 26                         | 9,730   | 5 3   | 8,850   | 4 95  | 7,950   | 4 5   | 7,020   | 4 1   | 6,040         | 3 70         | 4,800         | 3 25   |      |
| 610  | 5750             | 2 47                         | 10,500  | 6 1   | 9,670   | 5 8   | 8,820   | 5 4   | 7,950   | 5 0   | 7,020         | 4 55         | 6,040         | 4 1    |      |
| 636  | 6000             | 2 69                         | 11,200  | 7 2   | 10,500  | 6 8   | 9,640   | 6 3   | 8,800   | 5 9   | 7,980         | 5 5          | 7,100         | 5 1    |      |
| 662  | 6250             | 2 92                         | 11,900  | 8 2   | 11,200  | 7 8   | 10,400  | 7 4   | 9,650   | 7 0   | 8,850         | 6 5          | 8,000         | 6 1    |      |
| 690  | 6500             | 3 16                         | 12,600  | 9 5   | 11,900  | 9 0   | 11,200  | 8 5   | 10,500  | 8 1   | 9,730         | 7 6          | 8,940         | 7 2    |      |
| 715  | 6750             | 3 40                         | 13,300  | 10 5  | 12,600  | 10 0  | 12,000  | 9 7   | 11,300  | 9 3   | 10,500        | 8 8          | 9,750         | 8 3    |      |
| 742  | 7000             | 3 66                         | 14,000  | 12 0  | 13,300  | 11 5  | 12,700  | 11 0  | 12,100  | 10 5  | 11,400        | 10 0         | 10,700        | 9 7    |      |
| 795  | 7500             | 4 20                         | 15,300  | 15 0  | 14,700  | 14 5  | 14,100  | 14 0  | 13,500  | 13 5  | 12,900        | 13 0         | 12,300        | 12 5   |      |
| 848  | 8000             | 4 79                         | 16,500  | 18 5  | 16,100  | 18  | 15,600  | 17 5  | 14,900  | 17    | 14,500        | 16 5         | 13,800        | 16 0   |      |
| 900  | 8500             | 5 40                         |   |   | 17,300  | 22  | 16,900  | 21 5  | 16,400  | 21    | 15,900        | 20 5         | 15,300        | 19 5   |      |
| 954  | 9000             | 6 05                         |   |   | 18,700  | 27  | 18,300  | 26  | 17,800  | 25    | 17,300        | 25           | 16,700        | 24     |      |
| 1010   | 9500             | 6 75                         |   |   |   |   | 19,600  | 31  | 19,100  | 30    | 18,700        | 30           | 18,200        | 29     |      |
| 1060   | 10000            | 7 47                         |   |   |   |   | 20,900  | 36  | 20,400  | 36    | 20,000        | 35           | 19,600        | 35     |      |
| R.P.M.   | Tip Speed F.P.M. | S.N.D. in inches             | Static Pressure 2 3/4" Water 1.59 ozs. per sq. inch | Static Pressure 3" Water 1.73 ozs. per sq. inch     | Static Pressure 3 1/4" Water 2.02 ozs. per sq. inch | Static Pressure 3 1/2" Water 2.31 ozs. per sq. inch | Static Pressure 4" Water 2.89 ozs. per sq. inch     | Static Pressure 4 1/4" Water 3.47 ozs. per sq. inch | Static Pressure 4 1/2" Water 4.05 ozs. per sq. inch |       |               |              |               |        |      |
| 602  | 6250             | 2 92                         | 6,200   | 5 1   |   |   |   |   |   |       |               |              |               |        |      |
| 690  | 6500             | 3 16                         | 7,330   | 6 3   | 6,290   | 5 8   |   |   |   |       |               |              |               |        |      |
| 715  | 6750             | 3 40                         | 8,240   | 7 3   | 7,410   | 6 9   |   |   |   |       |               |              |               |        |      |
| 742  | 7000             | 3 66                         | 9,220   | 8 7   | 8,460   | 8 2   | 6,710   | 7 1   |   |       |               |              |               |        |      |
| 795  | 7500             | 4 20                         | 11,000  | 11 5  | 10,300  | 11 0  | 8,850   | 9 9   | 7,210   | 8 7   |               |              |               |        |      |
| 848  | 8000             | 4 79                         | 12,700  | 15 0  | 12,000  | 14 5  | 10,800  | 13  | 9,470   | 12    |               |              |               |        |      |
| 900  | 8500             | 5 40                         | 14,200  | 18 5  | 13,700  | 18 0  | 12,500  | 17  | 11,300  | 15 5  | 8,690         | 13           |               |        |      |
| 954  | 9000             | 6 05                         | 15,800  | 23  | 15,300  | 22 5  | 14,200  | 21  | 13,000  | 19 5  | 10,700        | 16           | 7,920         | 14     |      |
| 1010   | 9500             | 6 75                         | 17,200  | 28  | 16,800  | 27  | 15,800  | 26  | 14,800  | 24 5  | 12,600        | 22           | 10,400        | 19     |      |
| 1060   | 10000            | 7 47                         | 18,700  | 33  | 18,300  | 33  | 17,300  | 31  | 16,400  | 30    | 14,400        | 27           | 12,300        | 24     |      |
|  |                  |                              |   |   |   |   |   |   |   |       |               |              | 9,980         | 18 5   |      |



Double Inlet

## 80" Steel Plate Fan—Design 1

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed<br>F.P.M. | S.N.D.<br>in<br>inches | Volume<br>C.F.M.  | H. P. | Volume<br>C.F.M.   | H. P. | Volume<br>C.F.M.   | H. P. | Volume<br>C.F.M.   | H. P. | Volume<br>C.F.M.   | H. P. | Volume<br>C.F.M.   | H. P. | Volume<br>C.F.M.   | H. P. |
|--------|---------------------|------------------------|---|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|
|        |                     |                        | Static Pressure<br>1 1/2" Water<br>.0722 ozs. per<br>sq. inch |       | Static Pressure<br>2" Water<br>.145 ozs. per<br>sq. inch |       | Static Pressure<br>2 1/2" Water<br>.217 ozs. per<br>sq. inch |       | Static Pressure<br>3" Water<br>.289 ozs. per<br>sq. inch |       | Static Pressure<br>3 1/2" Water<br>.361 ozs. per<br>sq. inch |       | Static Pressure<br>4" Water<br>.434 ozs. per<br>sq. inch |       | Static Pressure<br>4 1/2" Water<br>.506 ozs. per<br>sq. inch |       |
| 111    | 1400                | 0 147                  | 2,810   | 0 110 |  |       |  |       |  |       |  |       |  |       |  |       |
| 127    | 1600                | 0 191                  | 4,060   | 0 195 |  |       |  |       |  |       |  |       |  |       |  |       |
| 143    | 1800                | 0 242                  | 5,210   | 0 305 |  |       |  |       |  |       |  |       |  |       |  |       |
| 159    | 2000                | 0 299                  | 6,270   | 0 45  | 4,100  | 0 325 |  |       |  |       |  |       |  |       |  |       |
| 175    | 2200                | 0 362                  | 7,260   | 0 62  | 5,300  | 0 495 |  |       |  |       |  |       |  |       |  |       |
| 191    | 2400                | 0 430                  | 8,240   | 0 84  | 6,550  | 0 69  | 4,670  | 0 54  |  |       |  |       |  |       |  |       |
| 206    | 2600                | 0 505                  | 9,180   | 1 10  | 7,660  | 0 94  | 6,000  | 0 78  | 3,990  | 0 60  |  |       |  |       |  |       |
| 222    | 2800                | 0 585                  | 10,100  | 1 40  | 8,700  | 1 20  | 7,230  | 1 05  | 5,600  | 0 87  |  |       |  |       |  |       |
| 238    | 3000                | 0 673                  | 11,000  | 1 75  | 9,700  | 1 55  | 8,380  | 1 40  | 6,910  | 1 20  | 5,300  | 1 00  |  |       |  |       |
| 255    | 3200                | 0 765                  | 11,900  | 2 15  | 10,700   | 1 90  | 9,460  | 1 75  | 8,140  | 1 55  | 6,750  | 1 35  | 5,010  | 1 15  |  |       |
| 271    | 3400                | 0 861                  | 12,700  | 2 60  | 11,700   | 2 40  | 10,500   | 2 20  | 9,310  | 2 00  | 8,000  | 1 75  | 6,640  | 1 55  |  |       |
| 286    | 3600                | 0 969                  | 13,600  | 3 15  | 12,600   | 2 85  | 11,500   | 2 65  | 10,400   | 2 45  | 9,230  | 2 25  | 7,990  | 2 05  | 6,640  | 1 75  |
| 302    | 3800                | 1 08                   | 14,500  | 3 70  | 13,500   | 3 45  | 12,600   | 3 20  | 11,500   | 3 00  | 10,400   | 2 75  | 9,260  | 2 50  | 8,050  | 2 30  |
| 318    | 4000                | 1 20                   | 15,300  | 4 35  | 14,500   | 4 1   | 13,500   | 3 85  | 12,500   | 3 60  | 11,500   | 3 35  | 10,500   | 3 10  | 9,390  | 2 90  |
| 334    | 4200                | 1 32                   | 16,200  | 5 1   |  |       | 14,400   | 4 5   | 13,500   | 4 25  | 12,600   | 4 00  | 11,600   | 3 75  | 10,500   | 3 50  |
| 350    | 4400                | 1 45                   | 17,100  | 5 9   |  |       | 15,400   | 5 3   | 14,500   | 5 0   | 13,600   | 4 75  | 12,700   | 4 5   | 11,800   | 4 20  |
| 366    | 4600                | 1 58                   | 17,900  | 6 7   |  |       | 16,300   | 6 1   | 15,500   | 5 8   | 14,700   | 5 5   | 13,800   | 5 2   | 12,800   | 4 95  |
| 382    | 4800                | 1 72                   | 18,700  | 7 8   |  |       | 17,200   | 7     | 16,500   | 6 7   | 15,600   | 6 4   | 14,900   | 6 1   | 14,000   | 5 8   |
| 398    | 5000                | 1 87                   | 19,600  | 8 7   |  |       | 18,100   | 8     | 17,400   | 7 7   | 16,700   | 7 4   | 15,900   | 7 1   | 15,100   | 6 8   |
| 417    | 5250                | 2 06                   | 20,600  | 10 0  |  |       |  |       | 18,500   | 9 0   | 17,800   | 8 7   | 17,100   | 8 5   | 16,400   | 8 1   |
| 437    | 5500                | 2 26                   | 21,600  | 11 5  |  |       |  |       | 19,700   | 10 5  | 19,000   | 10 0  | 18,300   | 9 9   | 17,600   | 9 5   |
| 457    | 5750                | 2 47                   | 22,700  | 13 5  |  |       |  |       | 20,900   | 12    | 20,200   | 12 0  | 19,500   | 11 5  | 18,900   | 11 0  |
| 477    | 6000                | 2 69                   | 23,700  | 15 0  |  |       |  |       |  |       | 21,300   | 13 5  | 20,700   | 13 0  | 20,100   | 13 0  |
| 497    | 6250                | 2 92                   | 24,800  | 17 0  |  |       |  |       |  |       | 22,400   | 15 5  | 21,900   | 15 0  | 21,300   | 15 0  |
| 516    | 6500                | 3 16                   | 25,800  | 19 5  |  |       |  |       |  |       |  |       | 22,500   | 17 0  | 22,500   | 17 0  |
| 536    | 6750                | 3 40                   | 26,800  | 22 0  |  |       |  |       |  |       |  |       | 23,000   | 19 5  | 23,600   | 19 0  |
| 556    | 7000                | 3 66                   | 27,800  | 24 5  |  |       |  |       |  |       |  |       | 24,000   | 22    | 24,800   | 21 5  |
| 596    | 7500                | 4 20                   | 29,300  | 30    |  |       |  |       |  |       |  |       | 25,400   | 27    | 27,100   | 27    |
|        |                     |                        |   |       |  |       |  |       |  |       |  |       |  |       |  |       |
|        |                     |                        |   |       |  |       |  |       |  |       |  |       |  |       |  |       |
|        |                     |                        |   |       |  |       |  |       |  |       |  |       |  |       |  |       |
|        |                     |                        |   |       |  |       |  |       |  |       |  |       |  |       |  |       |
|        |                     |                        |   |       |  |       |  |       |  |       |  |       |  |       |  |       |
|        |                     |                        |   |       |  |       |  |       |  |       |  |       |  |       |  |       |
|        |                     |                        |   |       |  |       |  |       |  |       |  |       |  |       |  |       |
|        |                     |                        |   |       |  |       |  |       |  |       |  |       |  |       |  |       |
|        |                     |                        |   |       |  |       |  |       |  |       |  |       |  |       |  |       |
|        |                     |                        |   |       |  |       |  |       |  |       |  |       |  |       |  |       |
|        |                     |                        |   |       |  |       |  |       |  |       |  |       |  |       |  |       |
|        |                     |                        |   |       |  |       |  |       |  |       |  |       |  |       |  |       |
|        |                     |                        |   |       |  |       |  |       |  |       |  |       |  |       |  |       |
|        |                     |                        |   |       |  |       |  |       |  |       |  |       |  |       |  |       |
|        |                     |                        |   |       |  |       |  |       |  |       |  |       |  |       |  |       |
|        |                     |                        |   |       |  |       |  |       |  |       |  |       |  |       |  |       |
|        |                     |                        |   |       |  |       |  |       |  |       |  |       |  |       |  |       |
|        |                     |                        |   |       |  |       |  |       |  |       |  |       |  |       |  |       |
|        |                     |                        |   |       |  |       |  |       |  |       |  |       |  |       |  |       |
|        |                     |                        |   |       |  |       |  |       |  |       |  |       |  |       |  |       |
|        |                     |                        |   |       |  |       |  |       |  |       |  |       |  |       |  |       |
|        |                     |                        |   |       |  |       |  |       |  |       |  |       |  |       |  |       |
|        |                     |                        |   |       |  |       |  |       |  |       |  |       |  |       |  |       |
|        |                     |                        |   |       |  |       |  |       |  |       |  |       |  |       |  |       |
|        |                     |                        |   |       |  |       |  |       |  |       |  |       |  |       |  |       |
|        |                     |                        |   |       |  |       |  |       |  |       |  |       |  |       |  |       |
|        |                     |                        |   |       |  |       |  |       |  |       |  |       |  |       |  |       |
|        |                     |                        |   |       |  |       |  |       |  |       |  |       |  |       |  |       |
|        |                     |                        |   |       |  |       |  |       |  |       |  |       |  |       |  |       |
|        |                     |                        |   |       |  |       |  |       |  |       |  |       |  |       |  |       |
|        |                     |                        |   |       |  |       |  |       |  |       |  |       |  |       |  |       |
|        |                     |                        |   |       |  |       |  |       |  |       |  |       |  |       |  |       |
|        |                     |                        |   |       |  |       |  |       |  |       |  |       |  |       |  |       |
|        |                     |                        |   |       |  |       |  |       |  |       |  |       |  |       |  |       |
|        |                     |                        |   |       |  |       |  |       |  |       |  |       |  |       |  |       |
|        |                     |                        |   |       |  |       |  |       |  |       |  |       |  |       |  |       |
|        |                     |                        |   |       |  |       |  |       |  |       |  |       |  |       |  |       |
|        |                     |                        |   |       |  |       |  |       |  |       |  |       |  |       |  |       |
|        |                     |                        |   |       |  |       |  |       |  |       |  |       |  |       |  |       |
|        |                     |                        |   |       |  |       |  |       |  |       |  |       |  |       |  |       |
|        |                     |                        |   |       |  |       |  |       |  |       |  |       |  |       |  |       |
|        |                     |                        |   |       |  |       |  |       |  |       |  |       |  |       |  |       |
|        |                     |                        |   |       |  |       |  |       |  |       |  |       |  |       |  |       |
|        |                     |                        |   |       |  |       |  |       |  |       |  |       |  |       |  |       |
|        |                     |                        |   |       |  |       |  |       |  |       |  |       |  |       |  |       |
|        |                     |                        |   |       |  |       |  |       |  |       |  |       |  |       |  |       |
|        |                     |                        |   |       |  |       |  |       |  |       |  |       |  |       |  |       |

Double Inlet

## 90" Steel Plate Fan—Design 1

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.                                       | H. P.   | Volume C.F.M.                                       | H. P.   | Volume C.F.M.                                       | H. P.   | Volume C.F.M.                                       | H. P. | Volume C.F.M. | H. P. | Volume C.F.M. | H. P. | Volume C.F.M. | H. P. |
|--------|------------------|------------------|---|---|---|---|---|---|---|-------|---------------|-------|---------------|-------|---------------|-------|
|        |                  |                  | Static Pressure 1/2" Water .0722 ozs. per sq. inch  | Static Pressure 1/2" Water .145 ozs. per sq. inch   | Static Pressure 3/4" Water .217 ozs. per sq. inch   | Static Pressure 1" Water .289 ozs. per sq. inch     | Static Pressure 1 1/4" Water .361 ozs. per sq. inch | Static Pressure 1 1/2" Water .434 ozs. per sq. inch | Static Pressure 1 3/4" Water .506 ozs. per sq. inch |       |               |       |               |       |               |       |
| 99     | 1400             | 0.147            | 3,490   | 0.14  |   |   |   |   |   |       |               |       |               |       |               |       |
| 113    | 1600             | 0.191            | 5,050   | 0.24  |   |   |   |   |   |       |               |       |               |       |               |       |
| 128    | 1800             | 0.242            | 6,470   | 0.38  |   |   |   |   |   |       |               |       |               |       |               |       |
| 142    | 2000             | 0.299            | 7,800   | 0.56  | 5,100   | 0.405   |   |   |   |       |               |       |               |       |               |       |
| 156    | 2200             | 0.362            | 9,030   | 0.78  | 6,700   | 0.61  |   |   |   |       |               |       |               |       |               |       |
| 170    | 2400             | 0.430            | 10,200  | 1.05  | 8,150   | 0.86  | 5,800   | 0.67  |   |       |               |       |               |       |               |       |
| 184    | 2600             | 0.505            | 11,400  | 1.35  | 9,540   | 1.15  | 7,460   | 0.97  | 4,950   | 0.75  |               |       |               |       |               |       |
| 198    | 2800             | 0.585            | 12,500  | 1.70  | 10,800  | 1.50  | 8,980   | 1.30  | 6,950   | 1.10  |               |       |               |       |               |       |
| 212    | 3000             | 0.673            | 13,600  | 2.15  | 12,100  | 1.95  | 10,400  | 1.70  | 8,580   | 1.50  | 6,580         | 1.25  |               |       |               |       |
| 226    | 3200             | 0.765            | 14,700  | 2.65  | 13,300  | 2.40  | 11,800  | 2.15  | 10,100  | 1.95  | 8,380         | 1.70  | 6,250         | 1.40  |               |       |
| 240    | 3400             | 0.864            | 15,800  | 3.25  | 14,500  | 2.95  | 13,100  | 2.7   | 11,600  | 2.45  | 9,950         | 2.20  | 8,250         | 1.95  |               |       |
| 255    | 3600             | 0.969            | 16,900  | 3.9   | 15,700  | 3.55  | 14,300  | 3.3   | 12,900  | 3.05  | 11,500        | 2.75  | 9,920         | 2.50  | 8,250         | 2.20  |
| 269    | 3800             | 1.08             | 18,000  | 4.6   | 16,700  | 4.25  | 15,600  | 4.0   | 14,300  | 3.7   | 12,900        | 3.45  | 11,500        | 3.15  | 10,000        | 2.85  |
| 284    | 4000             | 1.20             | 19,000  | 5.4   | 18,000  | 5.1   | 16,800  | 4.8   | 15,600  | 4.5   | 14,300        | 4.15  | 13,000        | 3.90  | 11,700        | 3.60  |
| 297    | 4200             | 1.32             | 20,100  | 6.3   |   |   | 17,900  | 5.6   | 16,800  | 5.3   | 15,700        | 5.0   | 14,400        | 4.65  | 13,100        | 4.35  |
| 311    | 4400             | 1.45             | 21,200  | 7.3   |   |   | 19,100  | 6.6   | 18,000  | 6.2   | 16,900        | 5.9   | 15,800        | 5.6   | 14,600        | 5.2   |
| 325    | 4600             | 1.58             | 22,200  | 8.3   |   |   | 20,300  | 7.6   | 19,300  | 7.2   | 18,200        | 6.9   | 17,100        | 6.5   | 16,000        | 6.2   |
| 339    | 4800             | 1.72             | 23,300  | 9.7   |   |   | 21,400  | 8.7   | 20,500  | 8.3   | 19,400        | 7.9   | 18,500        | 7.6   | 17,400        | 7.2   |
| 354    | 5000             | 1.87             | 24,400  | 11.0  |   |   | 22,500  | 10  | 21,600  | 9.6   | 20,700        | 9.2   | 19,700        | 8.8   | 18,800        | 8.4   |
| 372    | 5250             | 2.06             | 25,600  | 12.5  |   |   |   |   | 23,000  | 11    | 22,200        | 11.0  | 21,200        | 10.5  | 20,500        | 10.0  |
| 390    | 5500             | 2.26             | 26,900  | 14.5  |   |   |   |   | 24,500  | 13    | 23,600        | 12.5  | 22,800        | 12.0  | 21,900        | 12.0  |
| 407    | 5750             | 2.47             | 28,200  | 16.5  |   |   |   |   | 26,000  | 15    | 25,200        | 14.5  | 24,200        | 14.0  | 23,500        | 14.0  |
| 425    | 6000             | 2.69             | 29,400  | 19.0  |   |   |   |   |   |       | 26,500        | 16.5  | 25,700        | 16.5  | 25,000        | 16.0  |
| 442    | 6250             | 2.92             | 30,800  | 21.5  |   |   |   |   |   |       | 27,900        | 19    | 27,200        | 19.0  | 26,500        | 18.5  |
| 460    | 6500             | 3.16             | 32,000  | 24  |   |   |   |   |   |       |               |       | 28,600        | 21.5  | 27,900        | 21.0  |
| 477    | 6750             | 3.40             | 33,400  | 27  |   |   |   |   |   |       |               |       | 30,000        | 24    | 29,300        | 23.5  |
| 495    | 7000             | 3.66             | 34,600  | 30  |   |   |   |   |   |       |               |       | 31,500        | 27    | 30,800        | 27    |
| 532    | 7500             | 4.20             | 37,100  | 37  |   |   |   |   |   |       |               |       |               |       | 33,700        | 33    |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 ozs. per sq. inch     | Static Pressure 1 1/4" Water .723 ozs. per sq. inch | Static Pressure 1 1/2" Water .878 ozs. per sq. inch | Static Pressure 1 3/4" Water 1.01 ozs. per sq. inch | Static Pressure 2" Water 1.16 ozs. per sq. inch     | Static Pressure 2 1/4" Water 1.30 ozs. per sq. inch | Static Pressure 2 1/2" Water 1.45 ozs. per sq. inch |       |               |       |               |       |               |       |
| 269    | 3800             | 1.08             | 8,380   | 2.50  |   |   |   |   |   |       |               |       |               |       |               |       |
| 284    | 4000             | 1.20             | 10,200  | 3.25  |   |   |   |   |   |       |               |       |               |       |               |       |
| 297    | 4200             | 1.32             | 11,800  | 4.05  | 8,900   | 3.35  |   |   |   |       |               |       |               |       |               |       |
| 311    | 4400             | 1.45             | 13,400  | 4.9   | 10,800  | 4.2   |   |   |   |       |               |       |               |       |               |       |
| 325    | 4600             | 1.58             | 14,900  | 5.8   | 12,400  | 5.1   | 9,640   | 4.35  |   |       |               |       |               |       |               |       |
| 339    | 4800             | 1.72             | 16,300  | 6.9   | 14,100  | 6.2   | 11,600  | 5.4   | 8,370   | 4.5   |               |       |               |       |               |       |
| 354    | 5000             | 1.87             | 17,700  | 8.1   | 15,600  | 7.3   | 13,300  | 6.5   | 10,700  | 5.7   |               |       |               |       |               |       |
| 372    | 5250             | 2.06             | 19,400  | 9.6   | 17,400  | 8.0   | 15,300  | 8.1   | 13,100  | 7.2   | 10,200        | 6.2   |               |       |               |       |
| 390    | 5500             | 2.26             | 21,000  | 11.5  | 19,100  | 10.5  | 17,200  | 9.7   | 15,200  | 8.8   | 13,000        | 8.0   | 10,400        | 7.1   |               |       |
| 407    | 5750             | 2.47             | 22,600  | 13.5  | 20,900  | 12.5  | 19,100  | 11.5  | 17,100  | 11.0  | 15,100        | 9.8   | 13,000        | 8.9   |               |       |
| 425    | 6000             | 2.69             | 24,100  | 15.5  | 22,600  | 14.5  | 20,800  | 13.5  | 19,000  | 13.0  | 17,200        | 12.0  | 15,300        | 11.0  | 13,200        | 10.0  |
| 442    | 6250             | 2.92             | 25,700  | 18.0  | 24,100  | 17.0  | 22,500  | 16.0  | 20,800  | 15.0  | 19,000        | 14.0  | 17,300        | 13.0  | 15,500        | 12.0  |
| 460    | 6500             | 3.16             | 27,300  | 20.5  | 25,700  | 19.5  | 24,200  | 18.5  | 22,800  | 17.5  | 21,000        | 16.5  | 19,300        | 15.5  | 17,900        | 14.5  |
| 477    | 6750             | 3.40             | 28,700  | 23  | 27,300  | 22  | 25,800  | 21  | 24,200  | 20    | 22,600        | 19    | 21,100        | 18    | 19,600        | 17.0  |
| 495    | 7000             | 3.66             | 30,200  | 26  | 28,700  | 25  | 27,400  | 24  | 25,900  | 23    | 24,500        | 22    | 23,000        | 21    | 21,400        | 19.5  |
| 532    | 7500             | 4.20             | 33,000  | 33  | 31,800  | 32  | 30,500  | 30  | 29,200  | 29    | 27,900        | 28    | 26,600        | 27    | 25,000        | 26    |
| 566    | 8000             | 4.79             | 35,600  | 40  | 34,700  | 39  | 33,600  | 38  | 32,200  | 37    | 31,100        | 36    | 29,800        | 34    | 28,000        | 33    |
| 601    | 8500             | 5.40             |   |   | 37,500  | 47  | 36,500  | 47  | 35,300  | 45    | 34,200        | 44    | 33,100        | 43    | 32,000        | 41    |
| 636    | 9000             | 6.05             |   |   | 40,500  | 58  | 39,400  | 56  | 38,300  | 54    | 37,200        | 54    | 36,200        | 52    | 35,200        | 50    |
| 672    | 9500             | 6.75             |   |   |   |   | 42,200  | 68  | 41,100  | 66    | 40,300        | 66    | 39,400        | 64    | 38,400        | 62    |
| 708    | 10000            | 7.47             |   |   |   |   | 45,000  | 78  | 44,000  | 76    | 43,200        | 76    | 42,300        | 74    | 41,300        | 74    |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 2 1/2" Water 1.59 ozs. per sq. inch | Static Pressure 3" Water 1.73 ozs. per sq. inch     | Static Pressure 3 1/2" Water 2.02 ozs. per sq. inch | Static Pressure 4" Water 2.31 ozs. per sq. inch     | Static Pressure 5" Water 2.89 ozs. per sq. inch     | Static Pressure 6" Water 3.47 ozs. per sq. inch     | Static Pressure 7" Water 4.05 ozs. per sq. inch     |       |               |       |               |       |               |       |
| 442    | 6250             | 2.92             | 13,400  | 11  |   |   |   |   |   |       |               |       |               |       |               |       |
| 460    | 6500             | 3.16             | 15,800  | 13  | 13,600  | 12.5  |   |   |   |       |               |       |               |       |               |       |
| 477    | 6750             | 3.40             | 17,800  | 16  | 16,000  | 15.0  |   |   |   |       |               |       |               |       |               |       |
| 495    | 7000             | 3.66             | 19,900  | 19  | 18,400  | 17.5  | 14,500  | 15  |   |       |               |       |               |       |               |       |
| 532    | 7500             | 4.20             | 23,700  | 25  | 22,300  | 24  | 19,100  | 22  | 15,600  | 19    |               |       |               |       |               |       |
| 566    | 8000             | 4.79             | 27,400  | 32  | 26,000  | 31  | 23,200  | 28  | 20,000  | 26    |               |       |               |       |               |       |
| 601    | 8500             | 5.40             | 30,700  | 40  | 29,600  | 39  | 27,000  | 36  | 24,400  | 34    | 18,800        | 28    |               |       |               |       |
| 636    | 9000             | 6.05             | 34,100  | 50  | 33,000  | 48  | 30,700  | 46  | 28,100  | 43    | 23,200        | 37    | 17,100        | 31    |               |       |
| 672    | 9500             | 6.75             | 37,200  | 60  | 36,300  | 58  | 34,100  | 56  | 31,900  | 54    | 27,300        | 47    | 22,400        | 41    | 15,500        | 34    |
| 708    | 10000            | 7.47             | 40,400  | 72  | 39,400  | 70  | 37,400  | 64  | 35,400  | 64    | 31,000        | 58    | 26,600        | 52    | 21,600        | 40    |

| Double Inlet   |                  | 100" Steel Plate Fan—Design 1 |   |   |   |   |   |   |   |       |               | Single Width |               |        |
|--|------------------|-------------------------------|---|---|---|---|---|---|---|-------|---------------|--------------|---------------|--------|
| When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances |                  |                               |   |   |   |   |   |   |   |       |               |              |               |        |
| R.P.M.   | Tip Speed F.P.M. | S.N.D. in inches              | Volume C.F.M.                                       | H. P.   | Volume C.F.M.                                       | H. P.   | Volume C.F.M.                                     | H. P.   | Volume C.F.M.                                       | H. P. | Volume C.F.M. | H. P.        | Volume C.F.M. | H. P.  |
|  |                  |                               | Static Pressure 1/4" Water .0722 ozs. per sq. inch  | Static Pressure 1/4" Water .145 ozs. per sq. inch   | Static Pressure 3/8" Water .217 ozs. per sq. inch   | Static Pressure 1/2" Water .289 ozs. per sq. inch   | Static Pressure 5/8" Water .361 ozs. per sq. inch | Static Pressure 3/4" Water .434 ozs. per sq. inch   | Static Pressure 7/8" Water .506 ozs. per sq. inch   |       |               |              |               |        |
| 89   | 1400             | 0 147                         | 4,240   | 0 165   |   |   |   |   |   |       |               |              |               |        |
| 102  | 1600             | 0 191                         | 6,130   | 0 205   |   |   |   |   |   |       |               |              |               |        |
| 114  | 1800             | 0 242                         | 8,550   | 0 46  |   |   |   |   |   |       |               |              |               |        |
| 127  | 2000             | 0 299                         | 9,460   | 0 68  | 6,190   | 0 49  |   |   |   |       |               |              |               |        |
| 140  | 2200             | 0 362                         | 11,000  | 0 94  | 8,130   | 0 70  |   |   |   |       |               |              |               |        |
| 153  | 2400             | 0 430                         | 12,400  | 1 25  | 9,900   | 1 05  | 7,050   | 0 82  |   |       |               |              |               |        |
| 165  | 2600             | 0 505                         | 13,800  | 1 65  | 11,600  | 1 40  | 9,050   | 1 15  | 6,010   | 0 91  |               |              |               |        |
| 178  | 2800             | 0 585                         | 15,200  | 2 10  | 13,100  | 1 85  | 10,900  | 1 60  | 8,450   | 1 30  |               |              |               |        |
| 191  | 3000             | 0 673                         | 16,600  | 2 65  | 14,600  | 2 35  | 12,600  | 2 10  | 10,100  | 1 80  | 7,980         | 1 55         |               |        |
| 204  | 3200             | 0 765                         | 17,900  | 3 25  | 16,100  | 2 9   | 14,300  | 2 65  | 12,300  | 2 35  | 10,200        | 2 05         | 7,590         | 1 70   |
| 217  | 3400             | 0 864                         | 19,200  | 3 9   | 17,600  | 3 6   | 15,900  | 3 30  | 14,000  | 3 0   | 12,100        | 2 65         | 10,000        | 2 35   |
| 229  | 3600             | 0 960                         | 20,600  | 4 7   | 19,000  | 4 3   | 17,300  | 4 00  | 15,700  | 3 7   | 13,900        | 3 35         | 12,000        | 3 05   |
| 242  | 3800             | 1 08                          | 21,900  | 5 5   | 20,300  | 5 2   | 18,900  | 4 85  | 17,400  | 4 5   | 15,700        | 4 15         | 14,000        | 3 8    |
| 254  | 4000             | 1 20                          | 23,100  | 6 5   | 21,800  | 6 2   | 20,400  | 5 8   | 18,900  | 5 4   | 17,400        | 5 1          | 15,800        | 4 7    |
| 268  | 4200             | 1 32                          | 24,400  | 7 5   |   |   | 21,700  | 6 8   | 20,400  | 6 4   | 19,000        | 6 1          | 17,400        | 5 7    |
| 280  | 4400             | 1 45                          | 25,700  | 8 8   |   |   | 23,200  | 8 0   | 21,900  | 7 5   | 20,500        | 7 1          | 19,200        | 6 8    |
| 293  | 4600             | 1 58                          | 27,000  | 10 0  |   |   | 24,600  | 9 2   | 23,400  | 8 8   | 22,100        | 8 3          | 20,800        | 7 9    |
| 306  | 4800             | 1 72                          | 28,200  | 12 0  |   |   | 25,900  | 10 5  | 24,800  | 10 0  | 23,600        | 9 6          | 22,400        | 9 2    |
| 318  | 5000             | 1 87                          | 29,600  | 13 0  |   |   | 27,400  | 12  | 26,200  | 11 5  | 25,100        | 11 0         | 23,900        | 10 5   |
| 334  | 5250             | 2 05                          | 31,100  | 15 5  |   |   |   |   | 27,900  | 13 5  | 26,900        | 13 0         | 25,800        | 13     |
| 350  | 5500             | 2 26                          | 32,600  | 17 5  |   |   |   |   | 29,700  | 16 0  | 28,700        | 15 5         | 27,600        | 15     |
| 366  | 5750             | 2 47                          | 34,200  | 20  |   |   |   |   | 31,500  | 18 5  | 30,500        | 17 5         | 29,400        | 17     |
| 382  | 6000             | 2 69                          | 35,800  | 23  |   |   |   |   |   |       | 32,200        | 20 5         | 31,200        | 20     |
| 398  | 6250             | 2 92                          | 37,300  | 26  |   |   |   |   |   |       | 33,800        | 23 5         | 33,000        | 23     |
| 414  | 6500             | 3 16                          | 38,900  | 29  |   |   |   |   |   |       |               |              | 34,700        | 26     |
| 430  | 6750             | 3 40                          | 40,500  | 33  |   |   |   |   |   |       |               |              | 36,400        | 29     |
| 446  | 7000             | 3 66                          | 42,000  | 37  |   |   |   |   |   |       |               |              | 38,200        | 33     |
| 477  | 7500             | 4 20                          | 45,100  | 45  |   |   |   |   |   |       |               |              |               | 40,900 |
|  |                  |                               |   |   |   |   |   |   |   |       |               |              |               |        |
| R.P.M.   | Tip Speed F.P.M. | S.N.D. in inches              | Static Pressure 1" Water .578 ozs. per sq. inch     | Static Pressure 1 1/4" Water .723 ozs. per sq. inch | Static Pressure 1 1/2" Water .878 ozs. per sq. inch | Static Pressure 1 3/4" Water 1.01 ozs. per sq. inch | Static Pressure 2" Water 1.16 ozs. per sq. inch   | Static Pressure 2 1/4" Water 1.30 ozs. per sq. inch | Static Pressure 2 1/2" Water 1.45 ozs. per sq. inch |       |               |              |               |        |
| 242  | 3800             | 1 08                          | 10,200  | 3 05  |   |   |   |   |   |       |               |              |               |        |
| 254  | 4000             | 1 20                          | 12,400  | 3 95  |   |   |   |   |   |       |               |              |               |        |
| 268  | 4200             | 1 32                          | 14,400  | 4 9   | 10,800  | 4 05  |   |   |   |       |               |              |               |        |
| 280  | 4400             | 1 45                          | 16,300  | 6 0   | 13,100  | 5 1   |   |   |   |       |               |              |               |        |
| 293  | 4600             | 1 58                          | 18,000  | 7 1   | 15,100  | 6 2   | 11,700  | 5 3   |   |       |               |              |               |        |
| 306  | 4800             | 1 72                          | 19,700  | 8 4   | 17,100  | 7 5   | 14,100  | 6 5   | 10,200  | 5 5   |               |              |               |        |
| 318  | 5000             | 1 87                          | 21,500  | 9 8   | 18,900  | 8 9   | 16,200  | 7 9   | 13,200  | 7 0   |               |              |               |        |
| 334  | 5250             | 2 05                          | 23,600  | 11 5  | 21,100  | 11 0  | 18,600  | 9 8   | 15,900  | 8 7   | 12,400        | 7 5          |               |        |
| 350  | 5500             | 2 26                          | 25,500  | 14 0  | 23,200  | 13 0  | 20,800  | 12 0  | 18,400  | 10 5  | 15,800        | 9 7          | 12,500        | 8 6    |
| 366  | 5750             | 2 47                          | 27,400  | 16 0  | 25,400  | 15 0  | 23,100  | 14 0  | 20,800  | 13 0  | 18,400        | 12 0         | 15,800        | 11 0   |
| 382  | 6000             | 2 69                          | 29,300  | 19 0  | 27,400  | 17 5  | 25,300  | 16 5  | 23,000  | 15 5  | 21,000        | 14 5         | 18,600        | 13 5   |
| 398  | 6250             | 2 92                          | 31,100  | 21 5  | 29,300  | 20 5  | 27,300  | 19 5  | 25,300  | 18    | 23,200        | 17           | 21,000        | 16     |
| 414  | 6500             | 3 16                          | 33,100  | 25  | 31,200  | 23 5  | 29,400  | 22 5  | 27,400  | 21    | 25,500        | 20           | 23,400        | 19     |
| 430  | 6750             | 3 40                          | 34,800  | 28  | 33,100  | 27  | 31,300  | 26  | 29,500  | 24    | 27,600        | 23           | 25,600        | 22     |
| 446  | 7000             | 3 66                          | 36,600  | 32  | 34,800  | 30  | 33,300  | 29  | 31,600  | 28    | 29,800        | 27           | 27,900        | 25     |
| 477  | 7500             | 4 20                          | 40,100  | 40  | 38,600  | 39  | 37,000  | 37  | 35,500  | 36    | 33,900        | 34           | 32,200        | 33     |
| 510  | 8000             | 4 79                          | 43,200  | 49  | 42,100  | 48  | 40,800  | 46  | 39,200  | 45    | 37,800        | 43           | 36,200        | 42     |
| 541  | 8500             | 5 40                          |   |   | 45,500  | 58  | 44,400  | 56  | 43,000  | 54    | 41,600        | 54           | 40,100        | 52     |
| 574  | 9000             | 6 05                          |   |   | 49,100  | 70  | 47,900  | 68  | 46,500  | 66    | 45,200        | 66           | 43,900        | 64     |
| 605  | 9500             | 6 75                          |   |   |   |   | 51,200  | 82  | 50,000  | 80    | 49,000        | 78           | 47,800        | 78     |
| 637  | 10000            | 7 47                          |   |   |   |   | 54,600  | 96  | 53,500  | 94    | 52,500        | 94           | 51,200        | 90     |
|  |                  |                               |   |   |   |   |   |   |   |       |               |              |               |        |
| R.P.M.   | Tip Speed F.P.M. | S.N.D. in inches              | Static Pressure 2 3/4" Water 1.59 ozs. per sq. inch | Static Pressure 3" Water 1.73 ozs. per sq. inch     | Static Pressure 3 1/4" Water 2.02 ozs. per sq. inch | Static Pressure 3 1/2" Water 2.31 ozs. per sq. inch | Static Pressure 4" Water 2.59 ozs. per sq. inch   | Static Pressure 4 1/4" Water 3.47 ozs. per sq. inch | Static Pressure 4 1/2" Water 4.05 ozs. per sq. inch |       |               |              |               |        |
| 398  | 6250             | 2 92                          | 16,500  | 13 5  |   |   |   |   |   |       |               |              |               |        |
| 414  | 6500             | 3 16                          | 19,400  | 16 5  | 16,500  | 15  |   |   |   |       |               |              |               |        |
| 430  | 6750             | 3 40                          | 21,600  | 19  | 19,500  | 18  |   |   |   |       |               |              |               |        |
| 446  | 7000             | 3 66                          | 24,200  | 23  | 22,200  | 22  | 17,000  | 18 5  |   |       |               |              |               |        |
| 477  | 7500             | 4 20                          | 28,800  | 30  | 27,000  | 29  | 23,200  | 26  | 18,900  | 23    |               |              |               |        |
| 510  | 8000             | 4 79                          | 33,200  | 39  | 31,500  | 38  | 28,200  | 35  | 24,800  | 31    |               |              |               |        |
| 541  | 8500             | 5 40                          | 37,300  | 49  | 35,900  | 47  | 32,800  | 44  | 29,600  | 41    | 22,800        | 34           |               |        |
| 574  | 9000             | 6 05                          | 41,400  | 60  | 40,000  | 58  | 37,200  | 56  | 34,100  | 52    | 28,200        | 45           | 20,800        | 38     |
| 605  | 9500             | 6 75                          | 45,100  | 72  | 44,000  | 72  | 41,400  | 68  | 38,800  | 64    | 33,100        | 58           | 27,200        | 50     |
| 637  | 10000            | 7 47                          | 49,000  | 88  | 47,800  | 86  | 45,400  | 82  | 43,000  | 78    | 37,700        | 70           | 32,300        | 64     |
|  |                  |                               |   |   |   |   |   |   |   |       |               |              | 26,200        | 48     |

Double Inlet

**110" Steel Plate Fan—Design 1**

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M. H. P. Static Pressure 1/2" Water .0722 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1/2" Water .145 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 3/4" Water .217 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1" Water .289 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 5/8" Water .361 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 3/4" Water .434 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1" Water .506 ozs. per sq. inch |
|--------|------------------|------------------|--|---|---|---|---|---|---|
| 81     | 1400             | 0.147            | 5,350 0.21   |   |   |   |   |   |   |
| 93     | 1600             | 0.191            | 7,740 0.37   |   |   |   |   |   |   |
| 101    | 1800             | 0.242            | 9,910 0.58   |   |   |   |   |   |   |
| 116    | 2000             | 0.299            | 11,900 0.85  | 7,810 0.62  |   |   |   |   |   |
| 128    | 2200             | 0.362            | 13,800 1.20  | 10,300 0.94   |   |   |   |   |   |
| 139    | 2400             | 0.430            | 15,700 1.60  | 12,500 1.30   | 8,990 1.05  |   |   |   |   |
| 150    | 2600             | 0.505            | 17,500 2.10  | 14,600 1.80   | 11,400 1.50   | 7,590 1.15  |   |   |   |
| 162    | 2800             | 0.585            | 19,100 2.65  | 16,600 2.30   | 13,800 2.00   | 10,700 1.65   |   |   |   |
| 174    | 3000             | 0.673            | 20,900 3.30  | 18,500 2.95   | 16,000 2.65   | 13,200 2.30   | 10,100 1.95   |   |   |
| 185    | 3200             | 0.765            | 22,600 4.10  | 20,300 3.65   | 18,000 3.30   | 15,500 2.95   | 12,800 2.60   | 9,560 2.15  |   |
| 197    | 3400             | 0.864            | 24,200 4.95  | 22,200 4.5  | 20,100 4.15   | 17,700 3.75   | 15,200 3.35   | 12,600 2.95   |   |
| 208    | 3600             | 0.969            | 25,900 6.0   | 24,000 5.5  | 21,900 5.1  | 19,800 4.65   | 17,600 4.25   | 15,200 3.85   | 12,600 3.40   |
| 220    | 3800             | 1.08             | 27,600 7.0   | 25,700 6.5  | 23,900 6.1  | 21,900 5.7  | 19,800 5.3  | 17,600 4.8  | 15,300 4.35   |
| 232    | 4000             | 1.20             | 29,100 8.3   | 27,500 7.8  | 25,700 7.3  | 23,900 6.9  | 21,900 6.4  | 20,000 5.9  | 17,900 5.5  |
| 243    | 4200             | 1.32             | 30,800 9.7   |   | 27,400 8.6  | 25,800 8.1  | 24,000 7.6  | 22,000 7.1  | 20,100 6.6  |
| 254    | 4400             | 1.45             | 32,500 11.0  |   | 29,300 10.0   | 27,600 9.5  | 25,900 9.0  | 24,200 8.5  | 22,400 8.0  |
| 266    | 4600             | 1.58             | 34,000 13.0  |   | 31,100 11.5   | 29,600 11.0   | 27,900 10.5   | 26,200 10.0   | 24,400 9.5  |
| 278    | 4800             | 1.72             | 35,600 15.0  |   | 32,700 13.5   | 31,400 12.5   | 29,800 12.0   | 28,300 11.5   | 26,600 11.0   |
| 290    | 5000             | 1.87             | 37,300 16.5  |   | 34,500 15.5   | 33,100 14.5   | 31,700 14.0   | 30,200 13.5   | 28,700 13.0   |
| 304    | 5250             | 2.06             | 39,300 19.5  |   |   | 35,200 17   | 34,000 16.5   | 32,700 16.0   | 31,100 15.5   |
| 318    | 5500             | 2.26             | 41,100 22  |   |   | 37,500 20   | 36,200 19.5   | 34,700 18.5   | 33,500 18.0   |
| 332    | 5750             | 2.47             | 43,100 25  |   |   | 39,800 23   | 38,500 22.5   | 37,100 21.5   | 36,000 21.0   |
| 348    | 6000             | 2.69             | 45,100 29  |   |   |   | 40,500 26   | 39,400 25   | 38,200 24.5   |
| 361    | 6250             | 2.92             | 47,100 33  |   |   |   | 42,700 29   | 41,600 29   | 40,500 28   |
| 376    | 6500             | 3.16             | 49,100 37  |   |   |   |   | 43,900 33   | 42,800 32   |
| 390    | 6750             | 3.40             | 51,100 41  |   |   |   |   | 46,000 37   | 44,900 36   |
| 405    | 7000             | 3.66             | 53,000 46  |   |   |   |   | 48,200 42   | 47,200 41   |
| 435    | 7500             | 4.20             | 57,000 58  |   |   |   |   |   | 51,500 50   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 ozs. per sq. inch                        | Static Pressure 1 1/4" Water .723 ozs. per sq. inch                   | Static Pressure 1 1/2" Water .878 ozs. per sq. inch                   | Static Pressure 1 3/4" Water 1.01 ozs. per sq. inch                 | Static Pressure 2" Water 1.16 ozs. per sq. inch                       | Static Pressure 2 1/4" Water 1.30 ozs. per sq. inch                   | Static Pressure 2 1/2" Water 1.45 ozs. per sq. inch                 |
| 220    | 3800             | 1.08             | 12,800 3.85  |   |   |   |   |   |   |
| 232    | 4000             | 1.20             | 15,600 5.0   |   |   |   |   |   |   |
| 243    | 4200             | 1.32             | 18,100 6.2   | 13,600 5.1  |   |   |   |   |   |
| 254    | 4400             | 1.45             | 20,500 7.5   | 16,500 6.5  |   |   |   |   |   |
| 266    | 4600             | 1.58             | 22,800 9.0   | 19,000 7.9  | 11,800 6.7  |   |   |   |   |
| 278    | 4800             | 1.72             | 24,900 10.5  | 21,600 9.5  | 17,800 8.3  | 12,800 6.9  |   |   |   |
| 290    | 5000             | 1.87             | 27,100 12.5  | 23,900 11.0   | 20,400 10.0   | 16,600 8.8  |   |   |   |
| 304    | 5250             | 2.06             | 29,800 15.0  | 26,700 13.5   | 23,500 12.5   | 20,000 11.0   | 15,700 9.5  |   |   |
| 318    | 5500             | 2.26             | 32,200 17.5  | 29,300 16.5   | 26,300 15.0   | 23,200 13.5   | 19,900 12.0   | 15,800 11.0   |   |
| 332    | 5750             | 2.47             | 34,600 20.5  | 32,000 19.0   | 29,200 18.0   | 26,300 16.5   | 23,200 15.0   | 19,900 13.5   |   |
| 348    | 6000             | 2.69             | 36,900 23.5  | 34,600 22.5   | 31,900 21.0   | 29,100 19.5   | 26,400 18.0   | 23,500 16.5   | 20,100 15.5   |
| 361    | 6250             | 2.92             | 39,300 27  | 36,900 26   | 34,500 24.5   | 31,900 23   | 29,200 21.5   | 26,500 20   | 23,800 18.5   |
| 376    | 6500             | 3.16             | 41,800 31  | 39,400 30   | 37,100 28   | 34,600 27   | 32,200 25   | 29,500 24   | 27,000 22   |
| 390    | 6750             | 3.40             | 44,000 36  | 41,800 34   | 39,500 32   | 37,200 31   | 34,800 29   | 32,200 28   | 30,000 26   |
| 405    | 7000             | 3.66             | 46,100 40  | 44,000 38   | 42,000 37   | 39,800 35   | 37,700 34   | 35,200 32   | 32,700 30   |
| 435    | 7500             | 4.20             | 50,600 50  | 48,700 49   | 46,800 47   | 44,700 45   | 42,800 43   | 40,700 42   | 38,600 40   |
| 464    | 8000             | 4.79             | 54,500 62  | 53,100 60   | 51,500 58   | 49,400 56   | 47,700 54   | 45,700 52   | 43,800 50   |
| 491    | 8500             | 5.40             |  | 57,400 72   | 56,000 72   | 54,100 70   | 52,500 68   | 50,700 66   | 49,000 64   |
| 520    | 9000             | 6.05             |  | 62,000 88   | 60,400 86   | 58,700 84   | 57,100 82   | 55,400 80   | 53,900 78   |
| 550    | 9500             | 6.75             |  |   | 64,600 105  | 63,100 100  | 61,800 98   | 60,300 96   | 58,800 94   |
| 578    | 10000            | 7.47             |  |   | 69,000 120  | 67,400 120  | 66,100 115  | 64,600 115  | 63,200 110  |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 2 1/2" Water 1.59 ozs. per sq. inch                    | Static Pressure 3" Water 1.73 ozs. per sq. inch                       | Static Pressure 3 1/2" Water 2.02 ozs. per sq. inch                   | Static Pressure 4" Water 2.31 ozs. per sq. inch                     | Static Pressure 5" Water 2.89 ozs. per sq. inch                       | Static Pressure 6" Water 3.47 ozs. per sq. inch                       | Static Pressure 7" Water 4.05 ozs. per sq. inch                     |
| 361    | 6250             | 2.92             | 20,500 17  |   |   |   |   |   |   |
| 376    | 6500             | 3.16             | 24,200 21  | 20,800 19   |   |   |   |   |   |
| 390    | 6750             | 3.40             | 27,200 24  | 24,500 23   |   |   |   |   |   |
| 405    | 7000             | 3.66             | 30,500 29  | 27,900 27   | 22,200 23   |   |   |   |   |
| 435    | 7500             | 4.20             | 36,300 38  | 34,100 37   | 29,200 33   | 23,900 29   |   |   |   |
| 464    | 8000             | 4.79             | 42,000 49  | 39,000 48   | 35,600 43   | 31,300 40   |   |   |   |
| 491    | 8500             | 5.40             | 47,000 62  | 45,200 60   | 41,400 56   | 37,300 52   | 28,700 43   |   |   |
| 520    | 9000             | 6.05             | 52,100 76  | 50,500 74   | 46,900 70   | 43,000 66   | 35,600 56   | 26,200 48   |   |
| 550    | 9500             | 6.75             | 57,000 92  | 55,600 90   | 52,200 86   | 48,800 82   | 41,700 72   | 34,200 64   | 23,800 52   |
| 578    | 10000            | 7.47             | 61,800 110   | 60,300 105  | 57,200 105  | 54,200 98   | 47,500 90   | 40,600 80   | 33,000 60   |

Double Inlet

## 120" Steel Plate Fan—Design 1

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M. H. P. Static Pressure 1/2" Water .0722 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1/2" Water .145 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 3/4" Water .217 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1" Water .289 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1 1/4" Water .361 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1 1/2" Water .434 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1 3/4" Water .506 ozs. per sq. inch |
|--------|------------------|------------------|--|---|---|---|---|---|---|
| 74     | 1400             | 0 147            | 7,270 0 285  |   |   |   |   |   |   |
| 85     | 1600             | 0 191            | 10,500 0 50  |   |   |   |   |   |   |
| 95     | 1800             | 0 242            | 13,500 0 79  |   |   |   |   |   |   |
| 100    | 2000             | 0 299            | 16,200 1 15  | 10,600 0 81   |   |   |   |   |   |
| 117    | 2200             | 0 362            | 18,800 1 60  | 13,900 1 30   |   |   |   |   |   |
| 127    | 2400             | 0 430            | 21,300 2 15  | 17,000 1 80   | 12,100 1 4  |   |   |   |   |
| 138    | 2600             | 0 505            | 23,800 2 85  | 19,800 2 40   | 15,500 2 0  | 10,300 1 55   |   |   |   |
| 149    | 2800             | 0 585            | 26,000 3 6   | 22,500 3 15   | 18,700 2 7  | 14,500 2 15   |   |   |   |
| 159    | 3000             | 0 673            | 28,400 4 5   | 25,100 4 00   | 21,700 3 6  | 17,900 3 10   | 13,700 2 65   |   |   |
| 170    | 3200             | 0 765            | 30,700 5 6   | 27,600 4 95   | 24,500 4 5  | 21,000 4 05   | 17,500 3 50   | 13,000 2 95   |   |
| 180    | 3400             | 0 861            | 33,000 6 7   | 30,200 6 1  | 27,300 5 6  | 24,100 5 1  | 20,700 4 55   | 17,200 4 0  |   |
| 191    | 3600             | 0 960            | 35,200 8 1   | 32,600 7 4  | 29,800 6 9  | 26,900 6 3  | 23,900 5 8  | 20,700 5 2  | 17,200 4 6  |
| 202    | 3800             | 1 08             | 37,500 9 6   | 34,800 8 9  | 32,400 8 3  | 29,800 7 7  | 26,900 7 1  | 24,000 6 5  | 20,800 5 9  |
| 212    | 4000             | 1 20             | 39,500 11 0  | 37,100 10 5   | 35,000 10 0   | 32,400 9 3  | 29,800 8 7  | 27,100 8 1  | 24,300 7 4  |
| 223    | 4200             | 1 32             | 41,900 13 0  |   | 37,300 11 5   | 35,000 11 0   | 32,600 10 5   | 29,900 9 7  | 27,300 9 0  |
| 233    | 4400             | 1 45             | 44,100 15 0  |   | 39,800 13 5   | 37,500 13 0   | 35,200 12 5   | 32,900 11 5   | 30,400 11 0   |
| 244    | 4600             | 1 58             | 46,300 17 5  |   | 42,200 16 0   | 40,200 15 0   | 37,900 11 5   | 35,600 13 5   | 33,200 13 0   |
| 255    | 4800             | 1 72             | 48,400 20 0  |   | 44,500 18 0   | 42,600 17 5   | 40,500 16 5   | 38,400 16 0   | 36,100 15 0   |
| 266    | 5000             | 1 87             | 50,700 22 5  |   | 46,900 20 5   | 45,000 20 0   | 43,100 19 0   | 41,100 18 5   | 39,000 17 5   |
| 278    | 5250             | 2 06             | 53,100 25  |   |   | 47,900 23 5   | 46,000 22 5   | 44,200 22   | 42,400 21 0   |
| 292    | 5500             | 2 26             | 56,000 30  |   |   |   | 49,100 26   | 47,100 25   | 45,500 24 5   |
| 305    | 5750             | 2 47             | 58,600 34  |   |   | 54,000 31   | 52,400 30   | 50,500 30   | 49,000 29   |
| 318    | 6000             | 2 69             | 61,400 39  |   |   |   | 55,100 35   | 53,500 34   | 52,000 33   |
| 332    | 6250             | 2 92             | 64,000 44  |   |   |   | 58,000 40   | 56,500 39   | 55,100 38   |
| 345    | 6500             | 3 16             | 66,700 50  |   |   |   |   | 59,600 45   | 58,100 41   |
| 358    | 6750             | 3 40             | 69,500 56  |   |   |   |   | 62,500 50   | 61,000 49   |
| 372    | 7000             | 3 66             | 72,000 62  |   |   |   |   | 65,500 56   | 64,100 56   |
| 388    | 7500             | 4 20             | 77,300 78  |   |   |   |   |   | 70,000 70   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .723 ozs. per sq. inch                        | Static Pressure 1 1/4" Water .873 ozs. per sq. inch                   | Static Pressure 1 1/2" Water .978 ozs. per sq. inch                   | Static Pressure 1 3/4" Water 1.01 ozs. per sq. inch                 | Static Pressure 2" Water 1.16 ozs. per sq. inch                         | Static Pressure 2 1/4" Water 1.30 ozs. per sq. inch                     | Static Pressure 2 1/2" Water 1.45 ozs. per sq. inch                     |
| 202    | 3800             | 1 08             | 17,400 5.3   |   |   |   |   |   |   |
| 212    | 4000             | 1 20             | 21,200 6.8   |   |   |   |   |   |   |
| 223    | 4200             | 1 32             | 24,600 8.4   | 18,500 7 0  |   |   |   |   |   |
| 233    | 4400             | 1 45             | 27,900 10 0  | 22,400 8 8  |   |   |   |   |   |
| 244    | 4600             | 1 58             | 30,900 12 0  | 25,900 10 5   | 20,100 9 1  |   |   |   |   |
| 255    | 4800             | 1 72             | 33,800 14 5  | 29,300 13 0   | 24,200 11 0   | 17,500 9 4  |   |   |   |
| 266    | 5000             | 1 87             | 36,900 17 0  | 32,400 15 5   | 27,800 13 5   | 22,600 12 0   |   |   |   |
| 278    | 5250             | 2 06             | 40,500 20 0  | 36,200 18 5   | 32,000 17   | 27,300 15 0   | 21,300 13 0   |   |   |
| 292    | 5500             | 2 26             | 43,700 23 5  | 39,800 22 5   | 35,700 20   | 31,600 18 5   | 27,200 16 5   | 21,600 14 5   |   |
| 305    | 5750             | 2 47             | 47,000 28  | 43,500 26   | 39,700 24   | 35,800 22 5   | 31,600 20   | 27,200 18 5   |   |
| 318    | 6000             | 2 69             | 50,200 32  | 47,000 30   | 43,400 29   | 39,600 27   | 35,900 25   | 32,000 23   | 27,400 21   |
| 332    | 6250             | 2 92             | 53,400 37  | 50,100 35   | 46,900 33   | 43,400 31   | 39,900 29   | 36,000 27   | 32,400 25   |
| 345    | 6500             | 3 16             | 56,700 43  | 53,500 40   | 50,500 38   | 47,100 36   | 43,700 34   | 40,200 32   | 36,700 30   |
| 358    | 6750             | 3 40             | 59,700 48  | 56,700 46   | 53,700 44   | 50,600 42   | 47,300 40   | 43,000 37   | 40,900 36   |
| 372    | 7000             | 3 66             | 62,700 54  | 59,700 52   | 57,000 50   | 54,200 48   | 51,200 46   | 48,000 44   | 44,500 41   |
| 388    | 7500             | 4 20             | 68,700 68  | 66,200 66   | 63,500 64   | 61,000 62   | 58,300 58   | 54,400 56   | 52,600 55   |
| 425    | 8000             | 4 79             | 74,100 84  | 72,300 82   | 70,000 80   | 67,300 76   | 65,000 74   | 62,200 72   | 59,700 68   |
| 451    | 8500             | 5 40             |  | 78,000 98   | 76,000 98   | 73,600 94   | 71,400 92   | 69,000 88   | 66,700 86   |
| 478    | 9000             | 6 05             |  | 84,300 120  | 82,100 120  | 80,000 115  | 77,700 110  | 75,400 110  | 73,400 105  |
| 504    | 9500             | 6 75             |  |   | 88,000 140  | 85,900 135  | 84,100 135  | 82,000 130  | 80,000 130  |
| 530    | 10000            | 7 47             |  |   | 93,800 165  | 91,400 160  | 90,200 160  | 88,200 155  | 86,200 150  |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 2 3/4" Water 1.59 ozs. per sq. inch                    | Static Pressure 3" Water 1.73 ozs. per sq. inch                       | Static Pressure 3 1/2" Water 2.02 ozs. per sq. inch                   | Static Pressure 4" Water 2.31 ozs. per sq. inch                     | Static Pressure 5" Water 2.89 ozs. per sq. inch                         | Static Pressure 6" Water 3.47 ozs. per sq. inch                         | Static Pressure 7" Water 4.05 ozs. per sq. inch                         |
| 332    | 6250             | 2 92             | 27,900 23  |   |   |   |   |   |   |
| 345    | 6500             | 3 16             | 33,000 28  | 28,300 26   |   |   |   |   |   |
| 358    | 6750             | 3 40             | 37,000 33  | 33,400 31   |   |   |   |   |   |
| 372    | 7000             | 3 66             | 41,500 39  | 38,000 37   | 30,200 32   |   |   |   |   |
| 388    | 7500             | 4 20             | 49,400 52  | 46,200 50   | 39,800 44   | 32,500 39   |   |   |   |
| 425    | 8000             | 4 79             | 57,100 66  | 54,000 64   | 48,500 60   | 42,600 54   |   |   |   |
| 451    | 8500             | 5 40             | 64,000 84  | 61,600 82   | 56,400 76   | 50,800 70   | 39,100 58   |   |   |
| 478    | 9000             | 6 05             | 71,000 105   | 68,700 100  | 64,000 94   | 58,600 88   | 46,400 78   | 35,700 64   |   |
| 504    | 9500             | 6 75             | 77,600 125   | 75,700 120  | 71,000 115  | 66,500 110  | 56,900 98   | 46,500 86   | 32,400 72   |
| 530    | 10000            | 7 47             | 84,000 150   | 82,100 145  | 77,900 140  | 73,700 135  | 64,800 120  | 55,400 110  | 45,000 82   |

Double Inlet

## 110" Steel Plate Fan—Design 1

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M. H. P. Static Pressure 1/2" Water .0722 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1/4" Water .145 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 3/8" Water .217 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1/2" Water .289 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 5/8" Water .361 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 3/4" Water .434 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 7/8" Water .506 ozs. per sq. inch |
|--------|------------------|------------------|--|---|---|---|---|---|---|
| 81     | 1400             | 0.147            | 5,350 0.21   |   |   |   |   |   |   |
| 93     | 1600             | 0.191            | 7,740 0.37   |   |   |   |   |   |   |
| 101    | 1800             | 0.242            | 9,910 0.58   |   |   |   |   |   |   |
| 116    | 2000             | 0.299            | 11,900 0.85  | 7,810 0.62  |   |   |   |   |   |
| 128    | 2200             | 0.362            | 13,800 1.20  | 10,300 0.94   |   |   |   |   |   |
| 139    | 2400             | 0.430            | 15,700 1.60  | 12,500 1.30   | 8,990 1.05  |   |   |   |   |
| 150    | 2600             | 0.505            | 17,500 2.10  | 14,600 1.80   | 11,400 1.50   | 7,590 1.15  |   |   |   |
| 162    | 2800             | 0.585            | 19,100 2.65  | 16,600 2.30   | 13,800 2.00   | 10,700 1.65   |   |   |   |
| 174    | 3000             | 0.673            | 20,900 3.30  | 18,500 2.95   | 16,000 2.65   | 13,200 2.30   | 10,100 1.95   |   |   |
| 185    | 3200             | 0.765            | 22,600 4.10  | 20,300 3.65   | 18,000 3.30   | 15,500 2.95   | 12,800 2.60   | 9,560 2.15  |   |
| 197    | 3400             | 0.864            | 24,200 4.95  | 22,200 4.5  | 20,100 4.15   | 17,700 3.75   | 15,200 3.35   | 12,600 2.95   |   |
| 208    | 3600             | 0.969            | 25,900 6.0   | 24,000 5.5  | 21,900 5.1  | 19,800 4.65   | 17,600 4.25   | 15,200 3.85   | 12,600 3.40   |
| 220    | 3800             | 1.08             | 27,600 7.0   | 25,700 6.5  | 23,900 6.1  | 21,900 5.7  | 19,800 5.3  | 17,600 4.8  | 15,300 4.35   |
| 232    | 4000             | 1.20             | 29,100 8.3   | 27,500 7.8  | 25,700 7.3  | 23,900 6.9  | 21,900 6.4  | 20,000 5.9  | 17,900 5.5  |
| 243    | 4200             | 1.32             | 30,800 9.7   |   | 27,400 8.6  | 25,800 8.1  | 24,000 7.6  | 22,000 7.1  | 20,100 6.6  |
| 254    | 4400             | 1.45             | 32,500 11.0  |   | 29,300 10.0   | 27,600 9.5  | 25,900 9.0  | 24,200 8.5  | 22,400 8.0  |
| 266    | 4600             | 1.58             | 34,000 13.0  |   | 31,100 11.5   | 29,600 11.0   | 27,900 10.5   | 26,200 10.0   | 24,400 9.5  |
| 278    | 4800             | 1.72             | 35,600 15.0  |   | 32,700 13.5   | 31,400 12.5   | 29,800 12.0   | 28,300 11.5   | 26,600 11.0   |
| 290    | 5000             | 1.87             | 37,300 16.5  |   | 34,500 15.5   | 33,100 14.5   | 31,700 14.0   | 30,200 13.5   | 28,700 13.0   |
| 304    | 5250             | 2.06             | 39,300 19.5  |   |   | 35,200 17   | 34,000 16.5   | 32,700 16.0   | 31,100 15.5   |
| 318    | 5500             | 2.26             | 41,100 22  |   |   | 37,500 20   | 36,200 19.5   | 34,700 18.5   | 33,500 18.0   |
| 332    | 5750             | 2.47             | 43,100 25  |   |   | 39,800 23   | 38,500 22.5   | 37,100 21.5   | 36,000 21.0   |
| 348    | 6000             | 2.69             | 45,100 29  |   |   |   | 40,500 26   | 39,400 25   | 38,200 24.5   |
| 361    | 6250             | 2.92             | 47,100 33  |   |   |   | 42,700 29   | 41,600 29   | 40,500 28   |
| 376    | 6500             | 3.16             | 49,100 37  |   |   |   |   | 43,900 33   | 42,800 32   |
| 390    | 6750             | 3.40             | 51,100 41  |   |   |   |   | 46,000 37   | 44,900 36   |
| 405    | 7000             | 3.66             | 53,000 46  |   |   |   |   | 48,200 42   | 47,200 41   |
| 435    | 7500             | 4.20             | 57,000 58  |   |   |   |   |   | 51,500 50   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 ozs. per sq. inch                        | Static Pressure 1 1/4" Water .723 ozs. per sq. inch                   | Static Pressure 1 1/2" Water .878 ozs. per sq. inch                   | Static Pressure 1 3/4" Water 1.01 ozs. per sq. inch                   | Static Pressure 2" Water 1.16 ozs. per sq. inch                       | Static Pressure 2 1/4" Water 1.30 ozs. per sq. inch                   | Static Pressure 2 1/2" Water 1.45 ozs. per sq. inch                   |
| 220    | 3800             | 1.08             | 12,800 3.85  |   |   |   |   |   |   |
| 232    | 4000             | 1.20             | 15,600 5.0   |   |   |   |   |   |   |
| 243    | 4200             | 1.32             | 18,100 6.2   | 13,600 5.1  |   |   |   |   |   |
| 254    | 4400             | 1.45             | 20,500 7.5   | 16,500 6.5  |   |   |   |   |   |
| 266    | 4600             | 1.58             | 22,800 9.0   | 19,000 7.9  | 11,800 6.7  |   |   |   |   |
| 278    | 4800             | 1.72             | 24,900 10.5  | 21,600 9.5  | 17,800 8.3  | 12,800 6.9  |   |   |   |
| 290    | 5000             | 1.87             | 27,100 12.5  | 23,900 11.0   | 20,400 10.0   | 16,600 8.8  |   |   |   |
| 304    | 5250             | 2.06             | 29,800 15.0  | 26,700 13.5   | 23,500 12.5   | 20,000 11.0   | 15,700 9.5  |   |   |
| 318    | 5500             | 2.26             | 32,200 17.5  | 29,300 16.5   | 26,300 15.0   | 23,200 13.5   | 19,900 12.0   | 15,800 11.0   |   |
| 332    | 5750             | 2.47             | 34,600 20.5  | 32,000 19.0   | 29,200 18.0   | 26,300 16.5   | 23,200 15.0   | 19,900 13.5   |   |
| 348    | 6000             | 2.69             | 36,900 23.5  | 34,600 22.5   | 31,900 21.0   | 29,100 19.5   | 26,400 18.0   | 23,500 16.5   | 20,100 15.5   |
| 361    | 6250             | 2.92             | 39,300 27  | 36,900 26   | 34,500 24.5   | 31,900 23   | 29,200 21.5   | 26,500 20   | 23,800 18.5   |
| 376    | 6500             | 3.16             | 41,800 31  | 39,400 30   | 37,100 28   | 34,600 27   | 32,200 25   | 29,500 24   | 27,000 22   |
| 390    | 6750             | 3.40             | 44,000 36  | 41,800 34   | 39,500 32   | 37,200 31   | 34,800 29   | 32,200 28   | 30,000 26   |
| 405    | 7000             | 3.66             | 46,100 40  | 44,000 38   | 42,000 37   | 39,800 35   | 37,700 34   | 35,200 32   | 32,700 30   |
| 435    | 7500             | 4.20             | 50,600 50  | 48,700 49   | 46,800 47   | 44,700 45   | 42,800 43   | 40,700 42   | 38,600 40   |
| 464    | 8000             | 4.79             | 54,500 62  | 53,100 60   | 51,500 58   | 49,400 56   | 47,700 54   | 45,700 52   | 43,800 50   |
| 491    | 8500             | 5.40             |  | 57,400 72   | 56,000 72   | 54,100 70   | 52,500 68   | 50,700 66   | 49,000 64   |
| 520    | 9000             | 6.05             |  | 62,000 88   | 60,400 86   | 58,700 84   | 57,100 82   | 55,400 80   | 53,900 78   |
| 550    | 9500             | 6.75             |  |   | 64,600 105  | 63,100 100  | 61,800 98   | 60,300 96   | 58,800 94   |
| 578    | 10000            | 7.47             |  |   | 69,000 120  | 67,400 120  | 66,100 115  | 64,600 115  | 63,200 110  |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 2 3/4" Water 1.59 ozs. per sq. inch                    | Static Pressure 3" Water 1.73 ozs. per sq. inch                       | Static Pressure 3 1/2" Water 2.02 ozs. per sq. inch                   | Static Pressure 4" Water 2.31 ozs. per sq. inch                       | Static Pressure 5" Water 2.89 ozs. per sq. inch                       | Static Pressure 6" Water 3.47 ozs. per sq. inch                       | Static Pressure 7" Water 4.05 ozs. per sq. inch                       |
| 361    | 6250             | 2.92             | 20,500 17  |   |   |   |   |   |   |
| 376    | 6500             | 3.16             | 24,200 21  | 20,800 19   |   |   |   |   |   |
| 390    | 6750             | 3.40             | 27,200 24  | 24,500 23   |   |   |   |   |   |
| 405    | 7000             | 3.66             | 30,500 29  | 27,900 27   | 22,200 23   |   |   |   |   |
| 435    | 7500             | 4.20             | 36,300 38  | 34,100 37   | 29,200 33   | 23,900 29   |   |   |   |
| 464    | 8000             | 4.79             | 42,000 49  | 39,000 48   | 35,600 43   | 31,300 40   |   |   |   |
| 491    | 8500             | 5.40             | 47,000 62  | 45,200 60   | 41,400 56   | 37,300 52   | 28,700 43   |   |   |
| 520    | 9000             | 6.05             | 52,100 76  | 50,500 74   | 46,900 70   | 43,000 66   | 35,600 56   | 26,200 48   |   |
| 550    | 9500             | 6.75             | 57,000 92  | 55,600 90   | 52,200 86   | 48,800 82   | 41,700 72   | 34,200 64   | 23,800 52   |
| 578    | 10000            | 7.47             | 61,800 110   | 60,300 105  | 57,200 105  | 54,200 98   | 47,500 90   | 40,600 80   | 33,000 60   |



Double Inlet

## 160" Steel Plate Fan—Design 1

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.                                       | H. P.   | Volume C.F.M.                                       | H. P.   | Volume C.F.M.                                   | H. P.   | Volume C.F.M.                                       | H. P. | Volume C.F.M. | H. P. | Volume C.F.M. | H. P. | Volume C.F.M. | H. P. |
|--------|------------------|------------------|---|---|---|---|---|---|---|-------|---------------|-------|---------------|-------|---------------|-------|
|        |                  |                  | Static Pressure 1" Water .0722 ozs. per sq. inch    | Static Pressure 1 1/4" Water .145 ozs. per sq. inch | Static Pressure 1 1/2" Water .217 ozs. per sq. inch | Static Pressure 1 3/4" Water .289 ozs. per sq. inch | Static Pressure 2" Water .361 ozs. per sq. inch | Static Pressure 2 1/4" Water .434 ozs. per sq. inch | Static Pressure 2 1/2" Water .506 ozs. per sq. inch |       |               |       |               |       |               |       |
| 50     | 1100             | 0 147            | 10,000  | 0 42  |   |   |   |   |   |       |               |       |               |       |               |       |
| 61     | 1600             | 0 191            | 15,100  | 0 74  |   |   |   |   |   |       |               |       |               |       |               |       |
| 72     | 1800             | 0 212            | 19,700  | 1 15  |   |   |   |   |   |       |               |       |               |       |               |       |
| 79     | 2000             | 0 299            | 23,700  | 1 70  | 15,500  | 1 25  |   |   |   |       |               |       |               |       |               |       |
| 87     | 2200             | 0 362            | 27,500  | 2 35  | 20,400  | 1 85  |   |   |   |       |               |       |               |       |               |       |
| 95     | 2400             | 0 430            | 31,200  | 3 15  | 21,800  | 2 65  | 17,700  | 2 05  |   |       |               |       |               |       |               |       |
| 103    | 2600             | 0 505            | 34,700  | 4 15  | 29,000  | 3 55  | 22,700  | 2 95  | 15,100  | 2 3   |               |       |               |       |               |       |
| 110    | 2800             | 0 585            | 38,000  | 5 2   | 32,900  | 4 6   | 27,400  | 4 0   | 21,200  | 3 3   |               |       |               |       |               |       |
| 119    | 3000             | 0 673            | 41,500  | 6 6   | 36,700  | 5 9   | 31,700  | 5 2   | 26,200  | 4 5   | 20,000        | 3 9   |               |       |               |       |
| 127    | 3200             | 0 765            | 41,900  | 8 1   | 40,500  | 7 3   | 35,800  | 6 6   | 30,800  | 5 9   | 25,500        | 5 1   | 19,100        | 4 3   |               |       |
| 135    | 3400             | 0 861            | 48,200  | 9 8   | 44,100  | 9 0   | 39,900  | 8 3   | 35,200  | 7 5   | 30,300        | 6 7   | 25,100        | 5 9   |               |       |
| 143    | 3600             | 0 969            | 51,500  | 12 0  | 47,600  | 11 0  | 43,600  | 10 0  | 39,300  | 9 3   | 35,000        | 8 4   | 30,200        | 7 7   | 25,100        | 6 7   |
| 151    | 3800             | 1 08             | 54,900  | 14 0  | 51,000  | 13 0  | 47,500  | 12 0  | 43,500  | 11 5  | 39,300        | 10 5  | 35,100        | 9 5   | 30,500        | 8 7   |
| 159    | 4000             | 1 20             | 57,900  | 16 5  | 54,700  | 15 5  | 51,200  | 14 5  | 47,500  | 13 5  | 43,600        | 12 5  | 39,700        | 12    | 35,500        | 11    |
| 167    | 4200             | 1 32             | 61,200  | 19  |   |   | 54,500  | 17  | 51,200  | 16    | 47,600        | 15    | 43,800        | 14    | 39,900        | 13    |
| 175    | 4400             | 1 45             | 64,500  | 22  |   |   | 58,200  | 20  | 54,900  | 19    | 51,500        | 18    | 48,200        | 17    | 44,500        | 16    |
| 183    | 4600             | 1 58             | 67,700  | 25  |   |   | 61,800  | 23  | 58,800  | 22    | 55,500        | 21    | 52,100        | 20    | 48,600        | 19    |
| 191    | 4800             | 1 72             | 60,800  | 29  |   |   | 65,100  | 26  | 62,300  | 25    | 59,100        | 24    | 56,200        | 23    | 52,900        | 22    |
| 199    | 5000             | 1 87             | 74,100  | 33  |   |   | 68,600  | 30  | 65,900  | 29    | 63,000        | 28    | 60,100        | 27    | 57,100        | 26    |
| 209    | 5250             | 2 06             | 78,000  | 38  |   |   |   |   | 70,100  | 34    | 67,500        | 33    | 64,700        | 32    | 62,000        | 31    |
| 219    | 5500             | 2 26             | 81,800  | 44  |   |   |   |   | 74,000  | 40    | 72,000        | 39    | 69,400        | 37    | 66,600        | 36    |
| 229    | 5750             | 2 47             | 85,600  | 50  |   |   |   |   | 79,000  | 46    | 76,500        | 45    | 73,900        | 43    | 71,600        | 42    |
| 239    | 6000             | 2 69             | 89,800  | 58  |   |   |   |   | 80,600  | 50    | 78,400        | 50    | 76,000        | 49    | 74,000        | 49    |
| 249    | 6250             | 2 92             | 93,600  | 66  |   |   |   |   | 84,900  | 58    | 82,700        | 58    | 80,600        | 56    | 78,900        | 56    |
| 258    | 6500             | 3 16             | 97,500  | 74  |   |   |   |   |   |       | 87,100        | 66    | 85,100        | 64    | 83,100        | 64    |
| 268    | 6750             | 3 40             | 102,000   | 82  |   |   |   |   |   |       | 91,400        | 74    | 89,200        | 72    | 87,200        | 72    |
| 278    | 7000             | 3 66             | 105,000   | 92  |   |   |   |   |   |       | 96,000        | 82    | 93,900        | 82    | 91,900        | 82    |
| 298    | 7500             | 4 20             | 113,000   | 115   |   |   |   |   |   |       |               |       | 103,000       | 100   | 101,000       | 100   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .0723 ozs. per sq. inch    | Static Pressure 1 1/4" Water .145 ozs. per sq. inch | Static Pressure 1 1/2" Water .217 ozs. per sq. inch | Static Pressure 1 3/4" Water .289 ozs. per sq. inch | Static Pressure 2" Water .361 ozs. per sq. inch | Static Pressure 2 1/4" Water .434 ozs. per sq. inch | Static Pressure 2 1/2" Water .506 ozs. per sq. inch |       |               |       |               |       |               |       |
| 151    | 3800             | 1 08             | 25,500  | 7 7   |   |   |   |   |   |       |               |       |               |       |               |       |
| 159    | 4000             | 1 20             | 31,100  | 9 9   |   |   |   |   |   |       |               |       |               |       |               |       |
| 167    | 4200             | 1 32             | 36,000  | 12 5  | 27,100  | 10 0  |   |   |   |       |               |       |               |       |               |       |
| 175    | 4400             | 1 45             | 40,800  | 15 0  | 32,800  | 13 0  |   |   |   |       |               |       |               |       |               |       |
| 183    | 4600             | 1 58             | 45,200  | 18 0  | 37,800  | 15 5  | 29,400  | 13 5  |   |       |               |       |               |       |               |       |
| 191    | 4800             | 1 72             | 49,500  | 21 0  | 42,800  | 19 0  | 35,300  | 16 5  | 25,600  | 14 0  |               |       |               |       |               |       |
| 199    | 5000             | 1 87             | 51,000  | 24 5  | 47,500  | 22 5  | 40,600  | 20 0  | 33,000  | 17 5  |               |       |               |       |               |       |
| 209    | 5250             | 2 06             | 59,100  | 29  | 53,000  | 27  | 46,700  | 24 5  | 39,900  | 22    | 31,200        | 19    |               |       |               |       |
| 219    | 5500             | 2 26             | 64,000  | 35  | 58,200  | 33  | 52,300  | 30  | 46,100  | 27    | 39,700        | 24    | 31,600        | 21 5  |               |       |
| 229    | 5750             | 2 47             | 68,800  | 40  | 63,600  | 38  | 58,000  | 35  | 52,500  | 33    | 46,200        | 30    | 39,600        | 27    |               |       |
| 239    | 6000             | 2 69             | 73,500  | 47  | 68,800  | 45  | 63,500  | 42  | 57,900  | 39    | 52,500        | 36    | 46,700        | 33    | 40,000        | 31    |
| 249    | 6250             | 2 92             | 78,000  | 54  | 73,500  | 52  | 68,000  | 49  | 63,500  | 46    | 58,300        | 43    | 52,700        | 40    | 47,300        | 36    |
| 258    | 6500             | 3 16             | 83,000  | 62  | 78,400  | 58  | 73,800  | 56  | 68,900  | 54    | 64,000        | 50    | 58,900        | 47    | 53,600        | 44    |
| 268    | 6750             | 3 40             | 87,400  | 70  | 83,000  | 68  | 78,600  | 64  | 74,000  | 62    | 69,200        | 58    | 64,100        | 54    | 59,700        | 52    |
| 278    | 7000             | 3 66             | 91,800  | 80  | 87,400  | 76  | 83,500  | 72  | 79,100  | 70    | 75,000        | 66    | 70,100        | 64    | 65,100        | 60    |
| 298    | 7500             | 4 20             | 101,000   | 100   | 96,900  | 96  | 93,000  | 92  | 89,000  | 90    | 85,100        | 86    | 81,000        | 82    | 76,900        | 80    |
| 318    | 8000             | 4 79             | 109,000   | 125   | 106,000   | 120   | 102,000   | 115   | 98,500  | 110   | 95,000        | 110   | 90,900        | 105   | 87,200        | 100   |
| 338    | 8500             | 5 40             | 114,000   | 145   | 111,000   | 140   | 107,000   | 140   | 104,000   | 135   | 101,000       | 135   | 97,500        | 130   | 94,500        | 125   |
| 358    | 9000             | 6 05             | 123,000   | 175   | 120,000   | 170   | 117,000   | 170   | 113,000   | 165   | 110,000       | 160   | 107,000       | 155   | 104,000       | 150   |
| 378    | 9500             | 6 75             |   |   | 129,000   | 205   | 125,000   | 200   | 122,000   | 195   | 120,000       | 190   | 117,000       | 185   | 114,000       | 180   |
| 398    | 10000            | 7 47             |   |   | 137,000   | 240   | 134,000   | 235   | 132,000   | 230   | 128,000       | 230   | 126,000       | 220   |               |       |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 2 1/4" Water 1.59 ozs. per sq. inch | Static Pressure 3" Water 1.73 ozs. per sq. inch     | Static Pressure 3 1/4" Water 2.02 ozs. per sq. inch | Static Pressure 4" Water 2.31 ozs. per sq. inch     | Static Pressure 5" Water 2.89 ozs. per sq. inch | Static Pressure 6" Water 3.47 ozs. per sq. inch     | Static Pressure 7" Water 4.05 ozs. per sq. inch     |       |               |       |               |       |               |       |
| 219    | 6250             | 2 92             | 40,800  | 34  |   |   |   |   |   |       |               |       |               |       |               |       |
| 258    | 6500             | 3 16             | 48,200  | 41  | 41,100  | 38  |   |   |   |       |               |       |               |       |               |       |
| 268    | 6750             | 3 40             | 51,100  | 48  | 48,700  | 45  |   |   |   |       |               |       |               |       |               |       |
| 278    | 7000             | 3 66             | 60,600  | 58  | 55,700  | 54  | 44,200  | 46  |   |       |               |       |               |       |               |       |
| 298    | 7500             | 4 20             | 72,100  | 76  | 67,900  | 72  | 58,200  | 64  | 47,500  | 58    |               |       |               |       |               |       |
| 318    | 8000             | 4 79             | 83,500  | 98  | 79,000  | 94  | 71,000  | 86  | 62,300  | 78    |               |       |               |       |               |       |
| 338    | 8500             | 5 40             | 93,500  | 120   | 90,000  | 120   | 82,000  | 110   | 74,300  | 105   | 57,100        | 86    |               |       |               |       |
| 358    | 9000             | 6 05             | 104,000   | 150   | 100,000   | 145   | 93,500  | 140   | 85,600  | 130   | 70,700        | 115   | 52,100        | 94    |               |       |
| 378    | 9500             | 6 75             | 113,000   | 180   | 110,000   | 180   | 104,000   | 170   | 97,100  | 160   | 83,200        | 145   | 68,100        | 125   | 47,300        | 105   |
| 398    | 10000            | 7 47             | 123,000   | 220   | 120,000   | 215   | 114,000   | 200   | 108,000   | 195   | 94,600        | 180   | 80,900        | 160   | 65,600        | 120   |

Double Inlet

## 180" Steel Plate Fan—Design 1

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M. H. P. Static Pressure 1/4" Water .0722 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1/4" Water .145 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 3/8" Water .217 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1/2" Water .289 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 5/8" Water .361 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 3/4" Water .434 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 7/8" Water .506 ozs. per sq. inch |
|--------|------------------|------------------|--|---|---|---|---|---|---|
| 50     | 1400             | 0.147            | 13,300 0.52  |   |   |   |   |   |   |
| 57     | 1600             | 0.191            | 19,300 0.92  |   |   |   |   |   |   |
| 64     | 1800             | 0.242            | 24,600 1.45  |   |   |   |   |   |   |
| 71     | 2000             | 0.299            | 29,700 2.10  | 19,400 1.55   |   |   |   |   |   |
| 78     | 2200             | 0.362            | 34,400 2.95  | 25,500 2.35   |   |   |   |   |   |
| 85     | 2400             | 0.430            | 39,000 3.95  | 31,000 3.30   | 22,100 2.55   |   |   |   |   |
| 92     | 2600             | 0.505            | 43,500 5.2   | 36,300 4.45   | 28,400 3.7  | 18,900 2.85   |   |   |   |
| 99     | 2800             | 0.585            | 47,500 6.6   | 41,200 5.8  | 34,200 5.0  | 26,500 4.1  |   |   |   |
| 106    | 3000             | 0.673            | 52,000 8.3   | 46,000 7.4  | 39,700 6.5  | 32,700 5.7  | 25,100 4.85   |   |   |
| 113    | 3200             | 0.765            | 56,100 10.0  | 50,600 9.1  | 44,800 8.3  | 38,500 7.1  | 31,900 6.4  | 23,800 5.4  |   |
| 120    | 3400             | 0.864            | 60,300 12.5  | 55,200 11.5   | 49,900 10.5   | 44,100 9.4  | 37,900 8.4  | 31,100 7.3  |   |
| 127    | 3600             | 0.969            | 64,500 15.0  | 59,600 13.5   | 54,600 12.5   | 49,100 11.5   | 43,700 10.5   | 37,800 9.6  | 31,400 8.4  |
| 135    | 3800             | 1.08             | 68,600 17.5  | 63,800 16.0   | 59,400 15.0   | 54,500 14.0   | 49,100 13.0   | 43,900 12   | 38,100 11.0   |
| 141    | 4000             | 1.20             | 72,400 20.5  | 68,400 19.5   | 64,000 18.0   | 59,400 17.0   | 54,500 16.0   | 49,600 15   | 44,500 13.5   |
| 149    | 4200             | 1.32             | 76,500 24  |   | 68,200 21.5   | 64,000 20.0   | 59,000 19.0   | 54,700 18   | 49,900 16.5   |
| 156    | 4400             | 1.45             | 80,500 28  |   | 72,900 25   | 68,600 23.5   | 64,500 22.5   | 60,300 21   | 55,700 20.0   |
| 163    | 4600             | 1.58             | 84,600 32  |   | 77,200 29   | 73,500 28   | 69,400 26   | 65,200 25   | 60,800 23.5   |
| 170    | 4800             | 1.72             | 88,600 37  |   | 81,500 33   | 78,000 32   | 74,000 30   | 70,300 29   | 66,100 28   |
| 177    | 5000             | 1.87             | 92,800 41  |   | 85,900 38   | 82,300 36   | 78,900 35   | 75,100 33   | 71,500 32   |
| 186    | 5250             | 2.06             | 97,700 48  |   |   | 87,600 43   | 84,500 41   | 81,000 40   | 77,500 38   |
| 194    | 5500             | 2.26             | 102,000 54   |   |   | 93,300 50   | 90,000 48   | 86,800 47   | 83,300 45   |
| 204    | 5750             | 2.47             | 107,000 64   |   |   | 98,800 58   | 95,700 56   | 92,300 54   | 89,500 52   |
| 212    | 6000             | 2.69             | 112,000 72   |   |   |   | 101,000 64  | 98,000 62   | 95,100 60   |
| 221    | 6250             | 2.92             | 117,000 82   |   |   |   | 106,000 74  | 103,000 72  | 101,000 70  |
| 230    | 6500             | 3.16             | 122,000 92   |   |   |   |   | 109,000 82  | 107,000 80  |
| 239    | 6750             | 3.40             | 127,000 105  |   |   |   |   | 114,000 92  | 112,000 90  |
| 248    | 7000             | 3.66             | 132,000 115  |   |   |   |   | 120,000 105   | 118,000 100   |
| 266    | 7500             | 4.20             | 142,000 140  |   |   |   |   |   | 128,000 125   |
| I.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 ozs. per sq. inch                        | Static Pressure 1 1/4" Water .723 ozs. per sq. inch                   | Static Pressure 1 1/2" Water .878 ozs. per sq. inch                   | Static Pressure 1 3/4" Water 1.01 ozs. per sq. inch                   | Static Pressure 2" Water 1.16 ozs. per sq. inch                       | Static Pressure 2 1/4" Water 1.30 ozs. per sq. inch                   | Static Pressure 2 1/2" Water 1.45 ozs. per sq. inch                   |
| 135    | 3800             | 1.08             | 31,900 9.5   |   |   |   |   |   |   |
| 141    | 4000             | 1.20             | 38,900 12.5  |   |   |   |   |   |   |
| 149    | 4200             | 1.32             | 45,100 15.5  | 33,900 13.0   |   |   |   |   |   |
| 156    | 4400             | 1.45             | 51,000 18.5  | 41,000 16.0   |   |   |   |   |   |
| 163    | 4600             | 1.58             | 56,600 22.5  | 47,400 19.5   | 36,700 16.5   |   |   |   |   |
| 170    | 4800             | 1.72             | 62,000 26  | 53,600 23.5   | 44,200 20.5   | 31,900 17   |   |   |   |
| 177    | 5000             | 1.87             | 67,500 31  | 59,400 28   | 50,800 25   | 41,300 22   |   |   |   |
| 186    | 5250             | 2.06             | 74,000 37  | 66,400 34   | 58,500 31   | 49,900 28   | 39,000 23.5   |   |   |
| 194    | 5500             | 2.26             | 80,000 43  | 72,900 41   | 65,400 37   | 57,700 34   | 49,700 30   | 39,500 27   |   |
| 204    | 5750             | 2.47             | 86,100 50  | 79,500 48   | 72,800 44   | 65,400 41   | 57,800 37   | 49,700 33   |   |
| 212    | 6000             | 2.69             | 91,900 58  | 86,000 56   | 79,400 52   | 72,400 48   | 65,700 45   | 58,400 42   | 50,100 39   |
| 221    | 6250             | 2.92             | 97,600 68  | 91,900 64   | 85,800 60   | 79,400 58   | 72,900 54   | 66,000 50   | 59,100 46   |
| 230    | 6500             | 3.16             | 104,000 78   | 97,000 74   | 92,400 70   | 86,100 66   | 80,100 62   | 73,000 60   | 67,100 56   |
| 239    | 6750             | 3.40             | 109,000 88   | 104,000 84  | 98,300 80   | 92,600 76   | 86,100 72   | 80,300 68   | 74,700 66   |
| 248    | 7000             | 3.66             | 115,000 100  | 109,000 96  | 104,000 92  | 99,200 88   | 93,800 84   | 87,700 80   | 81,500 76   |
| 266    | 7500             | 4.20             | 126,000 125  | 121,000 120   | 116,000 115   | 111,000 110   | 106,000 105   | 101,000 105   | 96,000 100  |
| 283    | 8000             | 4.79             | 136,000 155  | 132,000 150   | 128,000 145   | 123,000 140   | 119,000 135   | 114,000 130   | 109,000 125   |
| 301    | 8500             | 5.40             |  | 143,000 180   | 139,000 180   | 135,000 175   | 130,000 170   | 126,000 160   | 122,000 160   |
| 319    | 9000             | 6.05             |  | 154,000 220   | 150,000 215   | 146,000 205   | 142,000 200   | 138,000 200   | 134,000 195   |
| 336    | 9500             | 6.75             |  |   | 161,000 255   | 157,000 250   | 154,000 245   | 150,000 240   | 146,000 230   |
| 354    | 10000            | 7.47             |  |   | 172,000 300   | 168,000 300   | 165,000 290   | 161,000 280   | 157,000 280   |
| I.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 2 3/4" Water 1.59 ozs. per sq. inch                    | Static Pressure 3" Water 1.73 ozs. per sq. inch                       | Static Pressure 3 1/4" Water 2.02 ozs. per sq. inch                   | Static Pressure 4" Water 2.31 ozs. per sq. inch                       | Static Pressure 5" Water 2.89 ozs. per sq. inch                       | Static Pressure 6" Water 3.47 ozs. per sq. inch                       | Static Pressure 7" Water 4.05 ozs. per sq. inch                       |
| 221    | 6250             | 2.92             | 51,000 42  |   |   |   |   |   |   |
| 230    | 6500             | 3.16             | 60,400 52  | 51,700 47   |   |   |   |   |   |
| 239    | 6750             | 3.40             | 67,700 60  | 61,000 56   |   |   |   |   |   |
| 248    | 7000             | 3.66             | 75,900 72  | 69,700 68   | 55,300 58   |   |   |   |   |
| 266    | 7500             | 4.20             | 90,300 96  | 85,000 90   | 72,800 82   | 59,400 72   |   |   |   |
| 283    | 8000             | 4.79             | 104,000 125  | 98,900 120  | 88,600 110  | 78,000 100  |   |   |   |
| 301    | 8500             | 5.40             | 117,000 155  | 112,000 150   | 103,000 140   | 92,400 130  | 71,500 110  |   |   |
| 319    | 9000             | 6.05             | 130,000 190  | 125,000 185   | 117,000 175   | 107,000 160   | 88,500 140  | 65,000 120  |   |
| 336    | 9500             | 6.75             | 142,000 230  | 138,000 220   | 130,000 210   | 122,000 200   | 104,000 180   | 85,200 155  | 59,200 130  |
| 354    | 10000            | 7.47             | 154,000 270  | 150,000 265   | 142,000 260   | 135,000 245   | 118,000 220   | 101,000 200   | 82,300 150  |

Double Inlet

## 200" Steel Plate Fan—Design 1

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M. H.P. Static Pressure 1/2" Water .0722 ozs. per sq. inch | Volume C.F.M. H.P. Static Pressure 1/2" Water .145 ozs. per sq. inch | Volume C.F.M. H.P. Static Pressure 1/2" Water .217 ozs. per sq. inch | Volume C.F.M. H.P. Static Pressure 1/2" Water .289 ozs. per sq. inch | Volume C.F.M. H.P. Static Pressure 1/2" Water .361 ozs. per sq. inch | Volume C.F.M. H.P. Static Pressure 1/2" Water .434 ozs. per sq. inch | Volume C.F.M. H.P. Static Pressure 1/2" Water .506 ozs. per sq. inch |
|--------|------------------|------------------|---|--|--|--|--|--|--|
| 44     | 1100             | 0.117            | 17,700 0.70   |  |  |  |  |  |  |
| 51     | 1600             | 0.191            | 25,600 1.20   |  |  |  |  |  |  |
| 57     | 1800             | 0.212            | 32,700 1.95   |  |  |  |  |  |  |
| 64     | 2000             | 0.299            | 39,400 2.80   | 25,800 2.050   |  |  |  |  |  |
| 70     | 2200             | 0.362            | 45,700 3.9  | 33,900 3.100   |  |  |  |  |  |
| 76     | 2400             | 0.430            | 51,700 5.3  | 41,200 4.352   | 29,400 3.4   |  |  |  |  |
| 83     | 2600             | 0.505            | 57,700 6.9  | 48,100 5.9   | 37,700 4.9   | 25,100 3.8   |  |  |  |
| 89     | 2800             | 0.585            | 63,100 8.7  | 54,200 7.6   | 45,400 6.6   | 35,200 5.5   |  |  |  |
| 95     | 3000             | 0.673            | 69,000 11.5   | 61,000 9.8   | 52,600 8.7   | 43,500 7.5   | 33,300 6.4   |  |  |
| 102    | 3200             | 0.765            | 74,500 13.5   | 67,100 12.0  | 59,500 11.0  | 51,100 9.8   | 42,400 8.5   | 31,700 7.2   |  |
| 108    | 3400             | 0.861            | 80,000 16.5   | 73,300 15.0  | 66,200 13.5  | 58,500 12.5  | 50,300 11.0  | 41,700 9.7   |  |
| 115    | 3600             | 0.969            | 85,500 19.5   | 79,100 18.0  | 72,400 16.5  | 65,300 15.5  | 58,000 14.0  | 50,200 12.5  | 41,600 11.0  |
| 121    | 3800             | 1.08             | 91,100 23   | 84,600 21.5  | 78,800 20  | 72,400 18.5  | 65,300 17.5  | 58,200 16.0  | 50,600 14.5  |
| 127    | 4000             | 1.20             | 96,000 27   | 90,800 26  | 85,000 24  | 78,900 22.5  | 72,100 21  | 66,000 19.5  | 59,000 18  |
| 134    | 4200             | 1.32             | 102,000 32  |  | 90,500 28  | 85,000 27  | 79,100 25  | 72,700 23.5  | 66,200 22  |
| 140    | 4400             | 1.45             | 107,000 37  |  | 96,600 33  | 91,100 31  | 85,600 30  | 80,000 28  | 74,000 27  |
| 146    | 4600             | 1.58             | 112,000 42  |  | 103,000 38   | 97,600 37  | 92,000 35  | 86,500 33  | 80,600 31  |
| 153    | 4800             | 1.72             | 118,000 49  |  | 108,000 44   | 104,000 42   | 98,200 40  | 93,400 39  | 87,800 36  |
| 159    | 5000             | 1.87             | 123,000 54  |  | 114,000 50   | 109,000 48   | 105,000 46   | 99,800 44  | 94,900 43  |
| 167    | 5250             | 2.06             | 130,000 64  |  |  | 116,000 56   | 112,000 54   | 107,000 51   | 103,000 50   |
| 175    | 5500             | 2.26             | 136,000 72  |  |  | 124,000 66   | 120,000 64   | 115,000 62   | 111,000 60   |
| 183    | 5750             | 2.47             | 142,000 84  |  |  | 131,000 76   | 127,000 74   | 123,000 72   | 119,000 70   |
| 191    | 6000             | 2.69             | 149,000 96  |  |  |  | 134,000 84   | 130,000 84   | 126,000 80   |
| 199    | 6250             | 2.92             | 155,000 110   |  |  |  | 141,000 98   | 137,000 94   | 134,000 92   |
| 207    | 6500             | 3.16             | 162,000 120   |  |  |  |  | 145,000 110  | 141,000 105  |
| 215    | 6750             | 3.40             | 169,000 135   |  |  |  |  | 152,000 120  | 148,000 120  |
| 223    | 7000             | 3.66             | 175,000 150   |  |  |  |  | 159,000 135  | 156,000 135  |
| 239    | 7500             | 4.20             | 188,000 190   |  |  |  |  |  | 170,000 170  |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 ozs. per sq. inch                       | Static Pressure 1 1/2" Water .723 ozs. per sq. inch                  | Static Pressure 1 1/2" Water .878 ozs. per sq. inch                  | Static Pressure 1 1/2" Water 1.01 ozs. per sq. inch                  | Static Pressure 2" Water 1.16 ozs. per sq. inch                      | Static Pressure 2 1/2" Water 1.30 ozs. per sq. inch                  | Static Pressure 2 1/2" Water 1.45 ozs. per sq. inch                  |
| 121    | 3800             | 1.08             | 42,400 13.0   |  |  |  |  |  |  |
| 127    | 4000             | 1.20             | 51,600 16.5   |  |  |  |  |  |  |
| 134    | 4200             | 1.32             | 59,900 20.5   | 45,000 17.0  |  |  |  |  |  |
| 140    | 4400             | 1.45             | 67,800 25   | 54,500 21.5  |  |  |  |  |  |
| 146    | 4600             | 1.58             | 75,100 30   | 62,800 26  | 48,800 22  |  |  |  |  |
| 153    | 4800             | 1.72             | 82,200 35   | 71,100 31  | 58,700 27  | 42,400 23  |  |  |  |
| 159    | 5000             | 1.87             | 89,600 41   | 78,900 37  | 67,500 33  | 54,900 29  |  |  |  |
| 167    | 5250             | 2.06             | 98,200 49   | 88,000 45  | 77,600 41  | 66,300 36  | 51,900 31  |  |  |
| 175    | 5500             | 2.26             | 106,000 58  | 96,600 54  | 86,900 49  | 76,800 45  | 66,000 40  | 52,100 36  |  |
| 183    | 5750             | 2.47             | 114,000 68  | 106,000 64   | 96,500 58  | 86,900 54  | 76,700 50  | 66,000 45  |  |
| 191    | 6000             | 2.69             | 122,000 78  | 114,000 74   | 105,000 70   | 96,100 64  | 87,100 60  | 77,700 56  | 67,600 52  |
| 199    | 6250             | 2.92             | 130,000 90  | 122,000 84   | 114,000 80   | 105,000 76   | 96,800 72  | 87,500 66  | 78,600 60  |
| 207    | 6500             | 3.16             | 138,000 105   | 130,000 98   | 123,000 94   | 114,000 88   | 106,000 84   | 97,700 78  | 89,000 74  |
| 215    | 6750             | 3.40             | 145,000 115   | 138,000 110  | 131,000 105  | 123,000 100  | 115,000 96   | 106,000 90   | 99,200 86  |
| 223    | 7000             | 3.66             | 152,000 130   | 145,000 125  | 139,000 120  | 131,000 115  | 124,000 110  | 116,000 105  | 108,000 100  |
| 239    | 7500             | 4.20             | 167,000 165   | 161,000 160  | 154,000 155  | 148,000 150  | 140,000 115  | 134,000 110  | 128,000 130  |
| 255    | 8000             | 4.79             | 180,000 205   | 178,000 200  | 170,000 195  | 163,000 185  | 158,000 180  | 151,000 175  | 145,000 170  |
| 271    | 8500             | 5.40             |   | 189,000 240  | 185,000 235  | 179,000 230  | 173,000 220  | 168,000 220  | 162,000 210  |
| 287    | 9000             | 6.05             |   | 205,000 290  | 199,000 285  | 194,000 280  | 189,000 270  | 183,000 260  | 178,000 255  |
| 303    | 9500             | 6.75             |   |  | 214,000 340  | 209,000 330  | 204,000 330  | 199,000 320  | 194,000 310  |
| 319    | 10000            | 7.47             |   |  | 228,000 395  | 223,000 390  | 219,000 385  | 214,000 375  | 209,000 370  |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 2 1/2" Water 1.59 ozs. per sq. inch                   | Static Pressure 3" Water 1.73 ozs. per sq. inch                      | Static Pressure 3 1/2" Water 2.02 ozs. per sq. inch                  | Static Pressure 4" Water 2.31 ozs. per sq. inch                      | Static Pressure 5" Water 2.89 ozs. per sq. inch                      | Static Pressure 6" Water 3.47 ozs. per sq. inch                      | Static Pressure 7" Water 4.05 ozs. per sq. inch                      |
| 199    | 6250             | 2.92             | 67,800 56   |  |  |  |  |  |  |
| 207    | 6500             | 3.16             | 80,100 68   | 68,700 62  |  |  |  |  |  |
| 215    | 6750             | 3.40             | 90,000 80   | 81,000 76  |  |  |  |  |  |
| 223    | 7000             | 3.66             | 101,000 94  | 92,500 90  | 73,100 78  |  |  |  |  |
| 239    | 7500             | 4.20             | 120,000 125   | 113,000 120  | 96,800 110   | 78,900 95  |  |  |  |
| 255    | 8000             | 4.79             | 139,000 165   | 131,000 160  | 117,000 145  | 103,000 130  |  |  |  |
| 271    | 8500             | 5.40             | 155,000 200   | 149,000 195  | 139,000 185  | 123,000 170  | 95,000 145   |  |  |
| 287    | 9000             | 6.05             | 173,000 250   | 167,000 245  | 155,000 230  | 142,000 215  | 117,000 190  | 86,700 155   |  |
| 303    | 9500             | 6.75             | 188,000 300   | 181,000 300  | 172,000 280  | 161,000 270  | 138,000 240  | 113,000 210  | 78,600 175   |
| 319    | 10000            | 7.47             | 204,000 360   | 199,000 350  | 189,000 340  | 179,000 320  | 157,000 300  | 135,000 260  | 109,000 200  |

Double Inlet

## 220" Steel Plate Fan—Design 1

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| Volume 1 and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances |                  |                  |  |       |   |       |   |       |   |       |   |       |   |       |   |       |
|---|------------------|------------------|--|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|
| R.P.M.  | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.                                      | H. P. | Volume C.F.M.                                     | H. P. | Volume C.F.M.                                     | H. P. | Volume C.F.M.                                   | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. |
|   |                  |                  | Static Pressure 1/2" Water .0722 ozs. per sq. inch |       | Static Pressure 1/2" Water .145 ozs. per sq. inch |       | Static Pressure 3/4" Water .217 ozs. per sq. inch |       | Static Pressure 1" Water .289 ozs. per sq. inch |       | Static Pressure 1 1/4" Water .361 ozs. per sq. inch |       | Static Pressure 1 1/2" Water .434 ozs. per sq. inch |       | Static Pressure 1 3/4" Water .506 ozs. per sq. inch |       |
| 40  | 1400             | 0 147            | 22,100   | 0 8   |   |       |   |       |   |       |   |       |   |       |   |       |
| 46  | 1600             | 0 191            | 32,000   | 1 55  |   |       |   |       |   |       |   |       |   |       |   |       |
| 52  | 1800             | 0 242            | 40,900   | 2 4   |   |       |   |       |   |       |   |       |   |       |   |       |
| 58  | 2000             | 0 299            | 49,300   | 3 5   | 32,300  | 2 55  |   |       |   |       |   |       |   |       |   |       |
| 64  | 2200             | 0 362            | 57,100   | 4 9   | 42,100  | 3 9   |   |       |   |       |   |       |   |       |   |       |
| 69  | 2400             | 0 430            | 64,700   | 6 6   | 51,500  | 5 5   | 36,700  | 4 25  |   |       |   |       |   |       |   |       |
| 75  | 2600             | 0 505            | 72,100   | 8 6   | 60,200  | 7 3   | 47,100  | 6 1   | 31,300  | 4 75  |   |       |   |       |   |       |
| 81  | 2800             | 0 585            | 79,000   | 11 0  | 68,400  | 9 5   | 56,800  | 8 3   | 44,000  | 6 8   |   |       |   |       |   |       |
| 87  | 3000             | 0 673            | 86,200   | 13 5  | 76,200  | 12 0  | 65,800  | 11 0  |   |       |   |       |   |       |   |       |
| 93  | 3200             | 0 765            | 93,100   | 17 0  | 84,000  | 15 0  | 71,300  | 13 5  | 54,300  | 9 4   | 41,600  | 8 02  |   |       |   |       |
| 98  | 3400             | 0 864            | 100,000  | 20 5  | 91,600  | 18 5  | 82,800  | 17    | 63,900  | 12 0  | 53,000  | 10 5  | 39,600  | 9 0   |   |       |
| 104   | 3600             | 0 969            | 107,000  | 24 5  | 99,000  | 22 5  | 90,500  | 21    | 73,100  | 15 5  | 62,900  | 14 0  | 52,100  | 12 0  |   |       |
| 110   | 3800             | 1 08             | 114,000  | 29    | 106,000   | 27    | 98,500  | 25    | 81,600  | 21 5  | 72,800  | 17 5  | 62,700  | 16 0  | 52,100  | 14 0  |
| 116   | 4000             | 1 20             | 120,000  | 34    |   |       | 106,000   | 31    | 98,500  | 28    | 90,500  | 26    | 82,400  | 24 5  | 63,300  | 18 0  |
| 121   | 4200             | 1 32             | 127,000  | 40    |   |       | 113,000   | 35    | 106,000   | 33    | 98,900  | 32    | 90,800  | 29    | 73,700  | 22 5  |
| 127   | 4400             | 1 45             | 134,000  | 46    |   |       | 121,000   | 41    | 114,000   | 39    | 107,000   | 37    | 100,000   | 35    | 82,700  | 27    |
| 133   | 4600             | 1 58             | 141,000  | 52    |   |       | 128,000   | 48    | 122,000   | 46    | 115,000   | 43    | 108,000   | 41    | 92,400  | 33    |
| 139   | 4800             | 1 72             | 147,000  | 62    |   |       | 135,000   | 54    | 129,000   | 52    | 123,000   | 50    | 117,000   | 48    | 101,000   | 39    |
| 145   | 5000             | 1 87             | 154,000  | 68    |   |       | 142,000   | 62    | 137,000   | 60    | 131,000   | 58    | 125,000   | 56    | 110,000   | 46    |
| 152   | 5250             | 2 06             | 162,000  | 80    |   |       |   |       | 145,000   | 70    | 140,000   | 68    | 134,000   | 66    | 119,000   | 54    |
| 159   | 5500             | 2 26             | 170,000  | 92    |   |       |   |       | 155,000   | 82    | 149,000   | 80    | 144,000   | 78    | 129,000   | 64    |
| 166   | 5750             | 2 47             | 178,000  | 105   |   |       |   |       | 164,000   | 96    | 159,000   | 92    | 153,000   | 90    | 138,000   | 74    |
| 171   | 6000             | 2 69             | 186,000  | 120   |   |       |   |       |   |       | 167,000   | 105   | 163,000   | 105   | 149,000   | 86    |
| 181   | 6250             | 2 92             | 195,000  | 135   |   |       |   |       |   |       | 176,000   | 120   | 172,000   | 120   | 158,000   | 100   |
| 188   | 6500             | 3 16             | 203,000  | 155   |   |       |   |       |   |       |   |       | 181,000   | 135   | 167,000   | 115   |
| 195   | 6750             | 3 40             | 211,000  | 170   |   |       |   |       |   |       |   |       | 181,000   | 135   | 177,000   | 130   |
| 202   | 7000             | 3 66             | 219,000  | 190   |   |       |   |       |   |       |   |       | 190,000   | 150   | 185,000   | 150   |
| 217   | 7500             | 4 20             | 235,000  | 235   |   |       |   |       |   |       |   |       | 199,000   | 170   | 195,000   | 170   |
|   |                  |                  |  |       |   |       |   |       |   |       |   |       |   |       | 213,000   | 210   |

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 ozs. per sq. inch | Static Pressure 1 1/2" Water .723 ozs. per sq. inch | Static Pressure 1 3/4" Water .878 ozs. per sq. inch | Static Pressure 2" Water 1.01 ozs. per sq. inch | Static Pressure 2 1/4" Water 1.16 ozs. per sq. inch | Static Pressure 2 1/2" Water 1.30 ozs. per sq. inch | Static Pressure 2 3/4" Water 1.45 ozs. per sq. inch |     |
|--------|------------------|------------------|---|---|---|---|---|---|---|-----|
| 110    | 3800             | 1 08             | 53,000  | 16 0  |   |   |   |   |   |     |
| 116    | 4000             | 1 20             | 64,500  | 20 5  |   |   |   |   |   |     |
| 121    | 4200             | 1 32             | 71,900  | 25  | 56,400  | 21  |   |   |   |     |
| 127    | 4400             | 1 45             | 81,700  | 31  | 68,200  | 27  |   |   |   |     |
| 133    | 4600             | 1 58             | 91,000  | 37  | 78,000  | 32  | 61,000  | 28  |   |     |
| 139    | 4800             | 1 72             | 103,000   | 44  | 89,000  | 39  | 73,400  | 34  | 53,000  | 29  |
| 145    | 5000             | 1 87             | 112,000   | 50  | 98,600  | 46  | 84,300  | 41  | 68,600  | 36  |
| 152    | 5250             | 2 06             | 123,000   | 60  | 110,000   | 56  | 97,000  | 52  | 82,900  | 45  |
| 159    | 5500             | 2 26             | 130,000   | 72  | 121,000   | 68  | 109,000   | 62  | 95,900  | 56  |
| 166    | 5750             | 2 47             | 143,000   | 84  | 132,000   | 78  | 121,000   | 74  | 108,000   | 68  |
| 171    | 6000             | 2 69             | 152,000   | 98  | 143,000   | 92  | 132,000   | 86  | 120,000   | 80  |
| 181    | 6250             | 2 92             | 162,000   | 110   | 152,000   | 105   | 142,000   | 100   | 131,000   | 96  |
| 188    | 6500             | 3 16             | 172,000   | 130   | 163,000   | 120   | 153,000   | 115   | 143,000   | 110 |
| 195    | 6750             | 3 40             | 182,000   | 145   | 172,000   | 140   | 163,000   | 135   | 154,000   | 125 |
| 202    | 7000             | 3 66             | 191,000   | 165   | 182,000   | 160   | 173,000   | 150   | 164,000   | 145 |
| 217    | 7500             | 4 20             | 209,000   | 210   | 201,000   | 200   | 193,000   | 195   | 185,000   | 185 |
| 231    | 8000             | 4 79             | 225,000   | 255   | 220,000   | 250   | 213,000   | 240   | 204,000   | 230 |
| 246    | 8500             | 5 40             |   |   | 237,000   | 300   | 231,000   | 295   | 223,000   | 290 |
| 260    | 9000             | 6 05             |   |   | 256,000   | 365   | 249,000   | 355   | 242,000   | 350 |
| 274    | 9500             | 6 75             |   |   |   |   | 267,000   | 425   | 261,000   | 420 |
| 289    | 10000            | 7 47             |   |   |   |   | 285,000   | 495   | 278,000   | 490 |

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 2 1/2" Water 1.59 ozs. per sq. inch | Static Pressure 3" Water 1.73 ozs. per sq. inch | Static Pressure 3 1/2" Water 2.02 ozs. per sq. inch | Static Pressure 4" Water 2.31 ozs. per sq. inch | Static Pressure 4 1/2" Water 2.59 ozs. per sq. inch | Static Pressure 5" Water 2.89 ozs. per sq. inch | Static Pressure 5 1/2" Water 3.47 ozs. per sq. inch | Static Pressure 6" Water 4.05 ozs. per sq. inch |
|--------|------------------|------------------|---|---|---|---|---|---|---|---|
| 181    | 6250             | 2 92             | 84,900  | 79  |   |   |   |   |   |   |
| 188    | 6500             | 3 16             | 100,000   | 86  | 86,000  | 78  |   |   |   |   |
| 195    | 6750             | 3 40             | 112,000   | 100   | 101,000   | 94  |   |   |   |   |
| 202    | 7000             | 3 66             | 126,000   | 120   | 115,000   | 110   | 91,600  | 96  | 98,600  | 120   |
| 217    | 7500             | 4 20             | 150,000   | 160   | 141,000   | 150   | 121,000   | 135   | 98,600  | 120   |
| 231    | 8000             | 4 79             | 173,000   | 200   | 164,000   | 195   | 147,000   | 180   | 129,000   | 165   |
| 246    | 8500             | 5 40             | 194,000   | 250   | 187,000   | 245   | 171,000   | 230   | 154,000   | 215   |
| 260    | 9000             | 6 05             | 216,000   | 310   | 208,000   | 305   | 194,000   | 290   | 178,000   | 270   |
| 274    | 9500             | 6 75             | 236,000   | 380   | 230,000   | 370   | 216,000   | 350   | 201,000   | 335   |
| 289    | 10000            | 7 47             | 256,000   | 450   | 249,000   | 445   | 238,000   | 425   | 224,000   | 405   |











Double Inlet

**320" Steel Plate Fan—Design 1**

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.                                       | H. P.   | Volume C.F.M.                                       | H. P.   | Volume C.F.M.                                       | H. P.   | Volume C.F.M.                                       | H. P.   | Volume C.F.M.                                       | H. P.   | Volume C.F.M.                                       | H. P.   | Volume C.F.M.                                       | H. P.   |
|--------|------------------|------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|        |                  |                  | Static Pressure 1" Water .0722 ozs. per sq. inch    |   | Static Pressure 1" Water .145 ozs. per sq. inch     |   | Static Pressure 1" Water .217 ozs. per sq. inch     |   | Static Pressure 1" Water .289 ozs. per sq. inch     |   | Static Pressure 1" Water .361 ozs. per sq. inch     |   | Static Pressure 1" Water .434 ozs. per sq. inch     |   | Static Pressure 1" Water .506 ozs. per sq. inch     |   |
| 28     | 1400             | 0 147            | 42,100  | 1 65  |   |   |   |   |   |   |   |   |   |   |   |   |
| 32     | 1600             | 0 191            | 60,900  | 2 9   |   |   |   |   |   |   |   |   |   |   |   |   |
| 36     | 1800             | 0 212            | 78,000  | 4 6   |   |   |   |   |   |   |   |   |   |   |   |   |
| 40     | 2000             | 0 299            | 91,000  | 6 7   | 61,500  | 4 9   |   |   |   |   |   |   |   |   |   |   |
| 44     | 2200             | 0 362            | 109,000   | 9 4   | 80,700  | 7 4   |   |   |   |   |   |   |   |   |   |   |
| 48     | 2400             | 0 430            | 123,000   | 12 5  | 98,100  | 10 5  | 70,000  | 8 1   |   |   |   |   |   |   |   |   |
| 52     | 2600             | 0 505            | 138,000   | 16 5  | 115,000   | 14 0  | 90,000  | 11 5  | 59,700  | 9 0   |   |   |   |   |   |   |
| 56     | 2800             | 0 585            | 150,000   | 21  | 130,000   | 18 0  | 108,000   | 16 0  | 83,900  | 13 0  |   |   |   |   |   |   |
| 60     | 3000             | 0 673            | 164,000   | 26  | 145,000   | 23 5  | 126,000   | 20 5  | 103,000   | 18 0  | 79,300  | 15 5  |   |   |   |   |
| 64     | 3200             | 0 765            | 178,000   | 32  | 160,000   | 29  | 142,000   | 26  | 122,000   | 23 5  | 101,000   | 20  | 75,500  | 17  |   |   |
| 68     | 3400             | 0 864            | 191,000   | 39  | 175,000   | 36  | 158,000   | 33  | 139,000   | 30  | 120,000   | 26  | 99,400  | 23  |   |   |
| 72     | 3600             | 0 969            | 204,000   | 47  | 189,000   | 43  | 173,000   | 40  | 156,000   | 37  | 138,000   | 33  | 120,000   | 30  | 99,400  | 27  |
| 76     | 3800             | 1 08             | 217,000   | 56  | 202,000   | 52  | 188,000   | 48  | 173,000   | 45  | 156,000   | 41  | 139,000   | 38  | 121,000   | 34  |
| 80     | 4000             | 1 20             | 229,000   | 64  | 217,000   | 62  | 203,000   | 58  | 188,000   | 54  | 172,000   | 50  | 157,000   | 47  | 141,000   | 43  |
| 84     | 4200             | 1 32             | 242,000   | 76  |   |   | 216,000   | 68  | 203,000   | 64  | 189,000   | 60  | 173,000   | 56  | 158,000   | 52  |
| 88     | 4400             | 1 45             | 255,000   | 88  |   |   | 231,000   | 78  | 217,000   | 74  | 204,000   | 70  | 191,000   | 68  | 176,000   | 64  |
| 92     | 4600             | 1 58             | 268,000   | 100   |   |   | 245,000   | 92  | 233,000   | 88  | 219,000   | 82  | 206,000   | 78  | 192,000   | 74  |
| 96     | 4800             | 1 72             | 280,000   | 115   |   |   | 258,000   | 105   | 247,000   | 100   | 234,000   | 96  | 222,000   | 92  | 209,000   | 86  |
| 100    | 5000             | 1 87             | 294,000   | 130   |   |   | 272,000   | 120   | 261,000   | 115   | 250,000   | 110   | 238,000   | 105   | 226,000   | 100   |
| 104    | 5250             | 2 06             | 309,000   | 150   |   |   |   |   | 277,000   | 135   | 267,000   | 130   | 256,000   | 125   | 247,000   | 120   |
| 109    | 5500             | 2 26             | 324,000   | 175   |   |   |   |   | 295,000   | 155   | 285,000   | 155   | 274,000   | 150   | 264,000   | 140   |
| 114    | 5750             | 2 47             | 339,000   | 200   |   |   |   |   | 313,000   | 180   | 303,000   | 175   | 292,000   | 170   | 283,000   | 165   |
| 119    | 6000             | 2 69             | 355,000   | 230   |   |   |   |   |   |   | 319,000   | 200   | 310,000   | 200   | 301,000   | 190   |
| 124    | 6250             | 2 92             | 371,000   | 260   |   |   |   |   |   |   | 336,000   | 230   | 328,000   | 225   | 319,000   | 220   |
| 129    | 6500             | 3 16             | 386,000   | 290   |   |   |   |   |   |   |   |   | 345,000   | 255   | 337,000   | 250   |
| 134    | 6750             | 3 40             | 402,000   | 325   |   |   |   |   |   |   |   |   | 362,000   | 290   | 353,000   | 285   |
| 139    | 7000             | 3 66             | 416,000   | 365   |   |   |   |   |   |   |   |   | 380,000   | 325   | 372,000   | 320   |
| 149    | 7500             | 4 20             | 448,000   | 450   |   |   |   |   |   |   |   |   |   |   | 406,000   | 400   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .0722 ozs. per sq. inch    | Static Pressure 1" Water .145 ozs. per sq. inch | Static Pressure 1" Water .217 ozs. per sq. inch     | Static Pressure 1" Water .289 ozs. per sq. inch | Static Pressure 1" Water .361 ozs. per sq. inch     | Static Pressure 1" Water .434 ozs. per sq. inch | Static Pressure 1" Water .506 ozs. per sq. inch     | Static Pressure 1" Water .578 ozs. per sq. inch | Static Pressure 1" Water .650 ozs. per sq. inch     | Static Pressure 1" Water .722 ozs. per sq. inch | Static Pressure 1" Water .794 ozs. per sq. inch     | Static Pressure 1" Water .866 ozs. per sq. inch | Static Pressure 1" Water .938 ozs. per sq. inch     | Static Pressure 1" Water 1.01 ozs. per sq. inch |
| 76     | 3800             | 1 08             | 101,000   | 30  |   |   |   |   |   |   |   |   |   |   |   |   |
| 80     | 4000             | 1 20             | 123,000   | 39  |   |   |   |   |   |   |   |   |   |   |   |   |
| 84     | 4200             | 1 32             | 143,000   | 49  | 107,000   | 40  |   |   |   |   |   |   |   |   |   |   |
| 88     | 4400             | 1 45             | 162,000   | 60  | 130,000   | 50  |   |   |   |   |   |   |   |   |   |   |
| 92     | 4600             | 1 58             | 179,000   | 70  | 150,000   | 62  | 116,000   | 52  |   |   |   |   |   |   |   |   |
| 96     | 4800             | 1 72             | 196,000   | 84  | 170,000   | 76  | 140,000   | 64  | 101,000   | 54  |   |   |   |   |   |   |
| 100    | 5000             | 1 87             | 214,000   | 98  | 188,000   | 90  | 161,000   | 78  | 131,000   | 70  |   |   |   |   |   |   |
| 104    | 5250             | 2 06             | 231,000   | 115   | 210,000   | 105   | 185,000   | 98  | 158,000   | 88  | 123,000   | 74  |   |   |   |   |
| 109    | 5500             | 2 26             | 253,000   | 135   | 231,000   | 130   | 207,000   | 115   | 183,000   | 105   | 157,000   | 96  | 125,000   | 86  |   |   |
| 114    | 5750             | 2 47             | 272,000   | 160   | 252,000   | 150   | 230,000   | 140   | 207,000   | 130   | 183,000   | 120   | 157,000   | 105   |   |   |
| 119    | 6000             | 2 69             | 291,000   | 185   | 272,000   | 175   | 251,000   | 165   | 229,000   | 155   | 208,000   | 145   | 183,000   | 130   | 157,000   | 125   |
| 124    | 6250             | 2 92             | 309,000   | 215   | 291,000   | 205   | 272,000   | 180   | 251,000   | 180   | 230,000   | 170   | 208,000   | 160   | 187,000   | 145   |
| 129    | 6500             | 3 16             | 329,000   | 245   | 310,000   | 235   | 292,000   | 225   | 272,000   | 210   | 253,000   | 200   | 237,000   | 185   | 212,000   | 175   |
| 134    | 6750             | 3 40             | 346,000   | 280   | 329,000   | 265   | 311,000   | 255   | 292,000   | 240   | 274,000   | 230   | 254,000   | 215   | 236,000   | 205   |
| 139    | 7000             | 3 66             | 363,000   | 315   | 346,000   | 300   | 330,000   | 290   | 313,000   | 275   | 296,000   | 265   | 278,000   | 250   | 257,000   | 240   |
| 149    | 7500             | 4 20             | 398,000   | 395   | 383,000   | 380   | 368,000   | 365   | 352,000   | 350   | 337,000   | 340   | 320,000   | 330   | 304,000   | 315   |
| 159    | 8000             | 4 79             | 430,000   | 485   | 410,000   | 475   | 405,000   | 460   | 388,000   | 445   | 378,000   | 430   | 359,000   | 410   | 345,000   | 400   |
| 169    | 8500             | 5 40             |   |   | 451,000   | 570   | 441,000   | 565   | 426,000   | 545   | 413,000   | 530   | 399,000   | 515   | 385,000   | 500   |
| 179    | 9000             | 6 05             |   |   | 489,000   | 695   | 475,000   | 680   | 462,000   | 665   | 449,000   | 645   | 436,000   | 630   | 424,000   | 615   |
| 189    | 9500             | 6 75             |   |   |   |   | 509,000   | 820   | 496,000   | 790   | 486,000   | 780   | 474,000   | 760   | 462,000   | 740   |
| 199    | 10000            | 7 47             |   |   |   |   | 543,000   | 945   | 530,000   | 935   | 521,000   | 920   | 509,000   | 900   | 498,000   | 885   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 2 1/2" Water 1.59 ozs. per sq. inch | Static Pressure 3" Water 1.73 ozs. per sq. inch | Static Pressure 3 1/2" Water 1.88 ozs. per sq. inch | Static Pressure 4" Water 2.03 ozs. per sq. inch | Static Pressure 4 1/2" Water 2.18 ozs. per sq. inch | Static Pressure 5" Water 2.33 ozs. per sq. inch | Static Pressure 5 1/2" Water 2.48 ozs. per sq. inch | Static Pressure 6" Water 2.63 ozs. per sq. inch | Static Pressure 6 1/2" Water 2.78 ozs. per sq. inch | Static Pressure 7" Water 2.93 ozs. per sq. inch | Static Pressure 7 1/2" Water 3.08 ozs. per sq. inch | Static Pressure 8" Water 3.23 ozs. per sq. inch | Static Pressure 8 1/2" Water 3.38 ozs. per sq. inch | Static Pressure 9" Water 3.53 ozs. per sq. inch |
| 124    | 6250             | 2 92             | 162,000   | 135   |   |   |   |   |   |   |   |   |   |   |   |   |
| 129    | 6500             | 3 16             | 191,000   | 165   | 164,000   | 150   |   |   |   |   |   |   |   |   |   |   |
| 134    | 6750             | 3 40             | 214,000   | 190   | 193,000   | 180   |   |   |   |   |   |   |   |   |   |   |
| 139    | 7000             | 3 66             | 240,000   | 225   | 220,000   | 210   | 175,000   | 185   |   |   |   |   |   |   |   |   |
| 149    | 7500             | 4 20             | 286,000   | 300   | 269,000   | 290   | 230,000   | 250   | 188,000   | 225   |   |   |   |   |   |   |
| 159    | 8000             | 4 79             | 330,000   | 390   | 313,000   | 375   | 280,000   | 315   | 246,000   | 310   |   |   |   |   |   |   |
| 169    | 8500             | 5 40             | 370,000   | 480   | 356,000   | 470   | 323,000   | 440   | 293,000   | 405   | 226,000   | 340   |   |   |   |   |
| 179    | 9000             | 6 05             | 410,000   | 595   | 397,000   | 580   | 370,000   | 550   | 339,000   | 515   | 280,000   | 450   | 206,000   | 375   |   |   |
| 189    | 9500             | 6 75             | 458,000   | 735   | 438,000   | 710   | 411,000   | 675   | 384,000   | 640   | 329,000   | 570   | 269,000   | 495   | 187,000   | 415   |
| 199    | 10000            | 7 47             | 585,000   | 865   | 474,000   | 845   | 450,000   | 815   | 426,000   | 780   | 374,000   | 705   | 320,000   | 635   | 260,000   | 475   |

Double Inlet

**360" Steel Plate Fan—Design 1**

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M. H. P. Static Pressure 1" Water .0722 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1½" Water .145 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 2" Water .217 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 2½" Water .289 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 3" Water .361 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 3½" Water .434 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 4" Water .506 ozs. per sq. inch |
|--------|------------------|------------------|--|--|---|--|---|--|---|
| 25     | 1400             | 0.147            | 54,500 2.15  |  |   |  |   |  |   |
| 28     | 1600             | 0.191            | 78,900 3.75  |  |   |  |   |  |   |
| 32     | 1800             | 0.242            | 101,000 5.9  |  |   |  |   |  |   |
| 35     | 2000             | 0.299            | 122,000 8.8  | 79,600 6.3   |   |  |   |  |   |
| 39     | 2200             | 0.362            | 141,000 12   | 105,000 9.6  |   |  |   |  |   |
| 42     | 2400             | 0.430            | 159,000 16   | 127,000 13.5   | 90,600 10.5   |  |   |  |   |
| 46     | 2600             | 0.505            | 178,000 21   | 149,000 18.0   | 116,000 15.0  | 77,300 11.5  |   |  |   |
| 50     | 2800             | 0.585            | 195,000 27   | 169,000 23.5   | 140,000 20.5  | 108,000 17   |   |  |   |
| 53     | 3000             | 0.673            | 213,000 31   | 188,000 29   | 163,000 27  | 131,000 23   | 103,000 20  |  |   |
| 57     | 3200             | 0.765            | 230,000 42   | 207,000 37   | 183,000 34  | 158,000 30   | 131,000 26  | 97,000 22  |   |
| 60     | 3400             | 0.864            | 247,000 50   | 226,000 46   | 204,000 42  | 180,000 38   | 155,000 34  | 129,000 30   |   |
| 64     | 3600             | 0.969            | 264,000 60   | 241,000 56   | 223,000 52  | 201,000 48   | 178,000 43  | 155,000 39   | 129,000 31  |
| 67     | 3800             | 1.08             | 281,000 72   | 261,000 66   | 243,000 62  | 223,000 58   | 201,000 54  | 180,000 49   | 156,000 44  |
| 71     | 4000             | 1.20             | 296,000 84   | 280,000 80   | 262,000 74  | 243,000 70   | 223,000 66  | 203,000 60   | 182,000 56  |
| 74     | 4200             | 1.32             | 313,000 98   |  | 279,000 88  | 262,000 82   | 244,000 78  | 224,000 72   | 204,000 68  |
| 78     | 4400             | 1.45             | 330,000 115  |  | 298,000 100   | 281,000 96   | 261,000 92  | 247,000 86   | 228,000 82  |
| 81     | 4600             | 1.58             | 347,000 130  |  | 313,000 120   | 301,000 110  | 284,000 105   | 267,000 100  | 249,000 96  |
| 85     | 4800             | 1.72             | 363,000 150  |  | 333,000 135   | 319,000 130  | 303,000 125   | 288,000 120  | 270,000 110   |
| 88     | 5000             | 1.87             | 380,000 170  |  | 351,000 155   | 337,000 150  | 323,000 145   | 308,000 135  | 292,000 130   |
| 93     | 5250             | 2.06             | 400,000 195  |  |   | 359,000 175  | 346,000 170   | 331,000 165  | 317,000 155   |
| 97     | 5500             | 2.26             | 419,000 225  |  |   | 382,000 200  | 368,000 200   | 355,000 190  | 341,000 185   |
| 102    | 5750             | 2.47             | 439,000 260  |  |   | 404,000 235  | 393,000 230   | 378,000 220  | 367,000 215   |
| 106    | 6000             | 2.69             | 459,000 295  |  |   |  | 413,000 260   | 401,000 255  | 389,000 250   |
| 111    | 6250             | 2.92             | 480,000 335  |  |   |  | 436,000 300   | 424,000 290  | 413,000 285   |
| 115    | 6500             | 3.16             | 500,000 375  |  |   |  |   | 446,000 330  | 430,000 325   |
| 119    | 6750             | 3.40             | 521,000 420  |  |   |  |   | 468,000 375  | 457,000 365   |
| 124    | 7000             | 3.66             | 540,000 470  |  |   |  |   | 491,000 425  | 481,000 415   |
| 133    | 7500             | 4.20             | 579,000 580  |  |   |  |   |  | 520,000 520   |

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 ozs. per sq. inch | Static Pressure 1½" Water .723 ozs. per sq. inch | Static Pressure 2" Water .878 ozs. per sq. inch | Static Pressure 2½" Water 1.01 ozs. per sq. inch | Static Pressure 3" Water 1.16 ozs. per sq. inch | Static Pressure 3½" Water 1.30 ozs. per sq. inch | Static Pressure 4" Water 1.45 ozs. per sq. inch |
|--------|------------------|------------------|---|--|---|--|---|--|---|
| 67     | 3800             | 1.08             | 131,000 30                                      |  |   |  |   |  |   |
| 71     | 4000             | 1.20             | 159,000 50                                      |  |   |  |   |  |   |
| 74     | 4200             | 1.32             | 184,000 62                                      | 139,000 52                                       |   |  |   |  |   |
| 78     | 4400             | 1.45             | 209,000 76                                      | 169,000 66                                       |   |  |   |  |   |
| 81     | 4600             | 1.58             | 231,000 92                                      | 194,000 80                                       | 150,000 68                                      |  |   |  |   |
| 85     | 4800             | 1.72             | 253,000 105                                     | 219,000 96                                       | 181,000 84                                      | 131,000 70                                       |   |  |   |
| 88     | 5000             | 1.87             | 276,000 125                                     | 243,000 115                                      | 208,000 100                                     | 169,000 90                                       |   |  |   |
| 93     | 5250             | 2.06             | 303,000 150                                     | 271,000 140                                      | 239,000 125                                     | 204,000 110                                      | 160,000 96                                      |  |   |
| 97     | 5500             | 2.26             | 328,000 180                                     | 298,000 165                                      | 268,000 150                                     | 238,000 140                                      | 203,000 125                                     | 162,000 110                                      |   |
| 102    | 5750             | 2.47             | 352,000 205                                     | 320,000 195                                      | 298,000 180                                     | 268,000 170                                      | 237,000 155                                     | 201,000 140                                      |   |
| 106    | 6000             | 2.69             | 376,000 240                                     | 353,000 230                                      | 325,000 215                                     | 296,000 200                                      | 270,000 185                                     | 240,000 170                                      | 205,000 160                                     |
| 111    | 6250             | 2.92             | 400,000 280                                     | 376,000 260                                      | 352,000 250                                     | 325,000 235                                      | 298,000 220                                     | 270,000 205                                      | 242,000 185                                     |
| 115    | 6500             | 3.16             | 426,000 320                                     | 401,000 300                                      | 378,000 290                                     | 352,000 270                                      | 328,000 260                                     | 301,000 240                                      | 274,000 225                                     |
| 119    | 6750             | 3.40             | 449,000 360                                     | 426,000 345                                      | 403,000 330                                     | 379,000 310                                      | 354,000 300                                     | 329,000 280                                      | 306,000 265                                     |
| 124    | 7000             | 3.66             | 470,000 410                                     | 448,000 390                                      | 428,000 375                                     | 405,000 360                                      | 383,000 340                                     | 359,000 325                                      | 334,000 310                                     |
| 133    | 7500             | 4.20             | 515,000 510                                     | 496,000 495                                      | 476,000 475                                     | 456,000 455                                      | 435,000 440                                     | 414,000 425                                      | 393,000 410                                     |
| 141    | 8000             | 4.79             | 556,000 630                                     | 541,000 615                                      | 529,000 600                                     | 504,000 575                                      | 488,000 555                                     | 468,000 535                                      | 446,000 520                                     |
| 150    | 8500             | 5.40             |   | 585,000 740                                      | 570,000 730                                     | 550,000 705                                      | 535,000 685                                     | 516,000 665                                      | 499,000 645                                     |
| 159    | 9000             | 6.05             |   | 632,000 900                                      | 616,000 880                                     | 599,000 855                                      | 582,000 835                                     | 565,000 810                                      | 549,000 795                                     |
| 168    | 9500             | 6.75             |   |  | 660,000 1050                                    | 643,000 1000                                     | 630,000 1000                                    | 614,000 985                                      | 599,000 960                                     |
| 177    | 10000            | 7.47             |   |  | 704,000 1200                                    | 687,000 1200                                     | 674,000 1200                                    | 659,000 1160                                     | 645,000 1150                                    |

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 2½" Water 1.59 ozs. per sq. inch | Static Pressure 3" Water 1.73 ozs. per sq. inch | Static Pressure 3½" Water 2.02 ozs. per sq. inch | Static Pressure 4" Water 2.31 ozs. per sq. inch | Static Pressure 5" Water 2.89 ozs. per sq. inch | Static Pressure 6" Water 3.47 ozs. per sq. inch | Static Pressure 7" Water 4.05 ozs. per sq. inch |
|--------|------------------|------------------|--|---|--|---|---|---|---|
| 111    | 6250             | 2.92             | 200,000 175                                      |   |  |   |   |   |   |
| 115    | 6500             | 3.16             | 217,000 210                                      | 212,000 195                                     |  |   |   |   |   |
| 119    | 6750             | 3.40             | 277,000 250                                      | 250,000 230                                     |  |   |   |   |   |
| 124    | 7000             | 3.66             | 310,000 290                                      | 285,000 275                                     | 226,000 240                                      |   |   |   |   |
| 133    | 7500             | 4.20             | 369,000 390                                      | 348,000 370                                     | 298,000 320                                      | 243,000 295                                     |   |   |   |
| 141    | 8000             | 4.79             | 427,000 505                                      | 405,000 485                                     | 363,000 445                                      | 319,000 405                                     |   |   |   |
| 150    | 8500             | 5.40             | 478,000 625                                      | 460,000 610                                     | 422,000 570                                      | 380,000 525                                     | 292,000 450                                     |   |   |
| 159    | 9000             | 6.05             | 532,000 770                                      | 513,000 750                                     | 479,000 710                                      | 438,000 665                                     | 362,000 580                                     | 267,000 485                                     |   |
| 168    | 9500             | 6.75             | 566,000 935                                      | 566,000 920                                     | 532,000 870                                      | 498,000 830                                     | 426,000 740                                     | 349,000 645                                     | 242,000 535                                     |
| 177    | 10000            | 7.47             | 630,000 1100                                     | 614,000 1100                                    | 583,000 1050                                     | 552,000 1000                                    | 485,000 910                                     | 414,000 810                                     | 336,000 615                                     |

Double Inlet

**400" Steel Plate Fan—Design 1**

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                   | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. |
|--------|------------------|------------------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|
|        |                  |                  | Static Pressure 1" Water .0722 ozs. per sq. inch    |       | Static Pressure 1 1/4" Water .145 ozs. per sq. inch |       | Static Pressure 1 1/2" Water .217 ozs. per sq. inch |       | Static Pressure 1 3/4" Water .289 ozs. per sq. inch |       | Static Pressure 2" Water .361 ozs. per sq. inch |       | Static Pressure 2 1/4" Water .434 ozs. per sq. inch |       | Static Pressure 2 1/2" Water .506 ozs. per sq. inch |       |
| 22     | 1400             | 0 147            | 66,000  | 2 6   |   |       |   |       |   |       |   |       |   |       |   |       |
| 25     | 1600             | 0 191            | 96,000  | 4 6   |   |       |   |       |   |       |   |       |   |       |   |       |
| 29     | 1800             | 0 242            | 123,000   | 7 2   |   |       |   |       |   |       |   |       |   |       |   |       |
| 32     | 2000             | 0 299            | 148,000   | 10 5  | 97,000  | 7 7   |   |       |   |       |   |       |   |       |   |       |
| 35     | 2200             | 0 362            | 171,000   | 15    | 127,000   | 11 5  |   |       |   |       |   |       |   |       |   |       |
| 38     | 2400             | 0 430            | 191,000   | 20    | 155,000   | 16 5  | 110,000   | 13 0  |   |       |   |       |   |       |   |       |
| 41     | 2600             | 0 505            | 216,000   | 26    | 181,000   | 22    | 142,000   | 18 5  | 94,000  | 14 0  |   |       |   |       |   |       |
| 45     | 2800             | 0 585            | 237,000   | 33    | 205,000   | 29    | 170,000   | 25    | 132,000   | 20 5  |   |       |   |       |   |       |
| 48     | 3000             | 0 673            | 259,000   | 41    | 229,000   | 37    | 197,000   | 33    | 163,000   | 28    | 125,000   | 24    |   |       |   |       |
| 51     | 3200             | 0 765            | 280,000   | 50    | 252,000   | 45    | 223,000   | 41    | 192,000   | 37    | 160,000   | 32    | 119,000   | 27    |   |       |
| 54     | 3400             | 0 864            | 300,000   | 62    | 275,000   | 56    | 249,000   | 52    | 220,000   | 47    | 190,000   | 42    | 157,000   | 37    |   |       |
| 57     | 3600             | 0 969            | 320,000   | 74    | 297,000   | 68    | 272,000   | 62    | 245,000   | 58    | 220,000   | 52    | 188,000   | 48    | 157,000   | 42    |
| 61     | 3800             | 1 08             | 342,000   | 88    | 318,000   | 80    | 296,000   | 76    | 272,000   | 70    | 245,000   | 66    | 218,000   | 60    | 190,000   | 54    |
| 64     | 4000             | 1 20             | 361,000   | 100   | 341,000   | 96    | 319,000   | 90    | 296,000   | 86    | 272,000   | 80    | 248,000   | 74    | 220,000   | 68    |
| 67     | 4200             | 1 32             | 382,000   | 120   |   |       | 340,000   | 105   | 319,000   | 100   | 297,000   | 94    | 270,000   | 88    | 249,000   | 82    |
| 70     | 4400             | 1 45             | 402,000   | 140   |   |       | 363,000   | 125   | 342,000   | 120   | 322,000   | 10    | 300,000   | 105   | 278,000   | 100   |
| 73     | 4600             | 1 58             | 422,000   | 160   |   |       | 385,000   | 145   | 368,000   | 135   | 346,000   | 130   | 325,000   | 125   | 303,000   | 115   |
| 76     | 4800             | 1 72             | 441,000   | 185   |   |       | 406,000   | 165   | 389,000   | 160   | 369,000   | 150   | 350,000   | 145   | 330,000   | 135   |
| 80     | 5000             | 1 87             | 463,000   | 205   |   |       | 428,000   | 190   | 410,000   | 180   | 393,000   | 175   | 375,000   | 165   | 356,000   | 160   |
| 84     | 5250             | 2 06             | 487,000   | 240   |   |       |   |       | 437,000   | 210   | 420,000   | 205   | 403,000   | 200   | 386,000   | 190   |
| 87     | 5500             | 2 26             | 510,000   | 275   |   |       |   |       | 465,000   | 250   | 449,000   | 240   | 432,000   | 230   | 415,000   | 220   |
| 91     | 5750             | 2 47             | 533,000   | 315   |   |       |   |       | 492,000   | 285   | 478,000   | 280   | 460,000   | 270   | 446,000   | 260   |
| 95     | 6000             | 2 69             | 560,000   | 360   |   |       |   |       |   |       | 502,000   | 320   | 488,000   | 310   | 474,000   | 300   |
| 99     | 6250             | 2 92             | 584,000   | 405   |   |       |   |       |   |       | 530,000   | 365   | 516,000   | 355   | 502,000   | 350   |
| 103    | 6500             | 3 16             | 608,000   | 460   |   |       |   |       |   |       |   |       | 544,000   | 405   | 530,000   | 400   |
| 107    | 6750             | 3 40             | 634,000   | 515   |   |       |   |       |   |       |   |       | 570,000   | 455   | 556,000   | 445   |
| 111    | 7000             | 3 66             | 656,000   | 570   |   |       |   |       |   |       |   |       | 597,000   | 515   | 585,000   | 505   |
| 119    | 7500             | 4 20             | 705,000   | 710   |   |       |   |       |   |       |   |       |   |       | 640,000   | 625   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 ozs. per sq. inch     |       | Static Pressure 1 1/4" Water .723 ozs. per sq. inch |       | Static Pressure 1 1/2" Water .878 ozs. per sq. inch |       | Static Pressure 1 3/4" Water 1.01 ozs. per sq. inch |       | Static Pressure 2" Water 1.16 ozs. per sq. inch |       | Static Pressure 2 1/4" Water 1.30 ozs. per sq. inch |       | Static Pressure 2 1/2" Water 1.45 ozs. per sq. inch |       |
| 61     | 3800             | 1 08             | 159,000   | 48    |   |       |   |       |   |       |   |       |   |       |   |       |
| 64     | 4000             | 1 20             | 193,000   | 62    |   |       |   |       |   |       |   |       |   |       |   |       |
| 67     | 4200             | 1 32             | 224,000   | 76    | 169,000   | 64    |   |       |   |       |   |       |   |       |   |       |
| 70     | 4400             | 1 45             | 254,000   | 94    | 204,000   | 80    |   |       |   |       |   |       |   |       |   |       |
| 73     | 4600             | 1 58             | 282,000   | 110   | 236,000   | 98    | 183,000   | 82    |   |       |   |       |   |       |   |       |
| 76     | 4800             | 1 72             | 308,000   | 130   | 267,000   | 115   | 220,000   | 100   | 159,000   | 86    |   |       |   |       |   |       |
| 80     | 5000             | 1 87             | 336,000   | 155   | 296,000   | 140   | 253,000   | 125   | 206,000   | 110   |   |       |   |       |   |       |
| 84     | 5250             | 2 06             | 369,000   | 185   | 330,000   | 170   | 291,000   | 155   | 248,000   | 135   | 194,000   | 115   |   |       |   |       |
| 87     | 5500             | 2 26             | 399,000   | 215   | 363,000   | 200   | 326,000   | 185   | 288,000   | 170   | 247,000   | 150   | 197,000   | 135   |   |       |
| 91     | 5750             | 2 47             | 428,000   | 250   | 396,000   | 235   | 362,000   | 220   | 326,000   | 205   | 288,000   | 185   | 247,000   | 170   |   |       |
| 95     | 6000             | 2 69             | 458,000   | 295   | 429,000   | 275   | 395,000   | 260   | 360,000   | 240   | 327,000   | 225   | 291,000   | 210   | 250,000   | 195   |
| 99     | 6250             | 2 92             | 487,000   | 340   | 458,000   | 320   | 428,000   | 300   | 395,000   | 285   | 363,000   | 265   | 328,000   | 250   | 295,000   | 230   |
| 103    | 6500             | 3 16             | 519,000   | 390   | 487,000   | 370   | 459,000   | 350   | 429,000   | 330   | 399,000   | 310   | 366,000   | 295   | 334,000   | 275   |
| 107    | 6750             | 3 40             | 544,000   | 440   | 519,000   | 420   | 490,000   | 400   | 461,000   | 380   | 432,000   | 360   | 400,000   | 340   | 372,000   | 325   |
| 111    | 7000             | 3 66             | 572,000   | 495   | 545,000   | 475   | 520,000   | 455   | 493,000   | 435   | 467,000   | 415   | 437,000   | 395   | 406,000   | 375   |
| 119    | 7500             | 4 20             | 626,000   | 625   | 603,000   | 600   | 579,000   | 580   | 555,000   | 555   | 531,000   | 535   | 504,000   | 515   | 479,000   | 495   |
| 127    | 8000             | 4 79             | 675,000   | 765   | 660,000   | 745   | 638,000   | 725   | 613,000   | 695   | 591,000   | 675   | 567,000   | 650   | 543,000   | 630   |
| 135    | 8500             | 5 40             |   |       | 711,000   | 900   | 694,000   | 885   | 671,000   | 860   | 651,000   | 835   | 629,000   | 810   | 607,000   | 670   |
| 143    | 9000             | 6 05             |   |       | 769,000   | 1100  | 750,000   | 1050  | 728,000   | 1050  | 708,000   | 1000  | 687,000   | 990   | 669,000   | 965   |
| 151    | 9500             | 6 75             |   |       |   |       | 802,000   | 1300  | 782,000   | 1250  | 766,000   | 1200  | 748,000   | 1200  | 729,000   | 1150  |
| 159    | 10000            | 7 47             |   |       |   |       | 855,000   | 1500  | 836,000   | 1450  | 821,000   | 1450  | 802,000   | 1400  | 785,000   | 1400  |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 2 1/2" Water 1.59 ozs. per sq. inch |       | Static Pressure 3" Water 1.73 ozs. per sq. inch     |       | Static Pressure 3 1/2" Water 1.89 ozs. per sq. inch |       | Static Pressure 4" Water 2.31 ozs. per sq. inch     |       | Static Pressure 5" Water 2.89 ozs. per sq. inch |       | Static Pressure 6" Water 3.47 ozs. per sq. inch     |       | Static Pressure 7" Water 4.05 ozs. per sq. inch     |       |
| 99     | 6250             | 2 92             | 254,000   | 210   |   |       |   |       |   |       |   |       |   |       |   |       |
| 103    | 6500             | 3 16             | 300,000   | 255   | 258,000   | 235   |   |       |   |       |   |       |   |       |   |       |
| 107    | 6750             | 3 40             | 335,000   | 300   | 304,000   | 280   |   |       |   |       |   |       |   |       |   |       |
| 111    | 7000             | 3 66             | 380,000   | 355   | 347,000   | 335   | 275,000   | 290   |   |       |   |       |   |       |   |       |
| 119    | 7500             | 4 20             | 450,000   | 475   | 423,000   | 455   | 363,000   | 405   | 296,000   | 355   |   |       |   |       |   |       |
| 127    | 8000             | 4 79             | 520,000   | 615   | 492,000   | 590   | 440,000   | 540   | 388,000   | 490   |   |       |   |       |   |       |
| 135    | 8500             | 5 40             | 580,000   | 760   | 561,000   | 740   | 513,000   | 695   | 463,000   | 640   | 356,000   | 535   |   |       |   |       |
| 143    | 9000             | 6 05             | 645,000   | 940   | 625,000   | 915   | 582,000   | 865   | 534,000   | 810   | 440,000   | 705   | 325,000   | 590   |   |       |
| 151    | 9500             | 6 75             | 706,000   | 1150  | 689,000   | 1100  | 648,000   | 1050  | 605,000   | 1000  | 518,000   | 900   | 424,000   | 780   | 294,000   | 650   |
| 159    | 10000            | 7 47             | 765,000   | 1350  | 747,000   | 1350  | 709,000   | 1250  | 672,000   | 1200  | 590,000   | 1100  | 505,000   | 990   | 409,000   | 750   |

Double Inlet

## 30" Steel Plate Fan—Design 1

Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances.

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.<br>Static Pressure 1/2" Water .0722 ozs. per sq. inch | H. P.   | Volume C.F.M.<br>Static Pressure 1/4" Water .145 ozs. per sq. inch | H. P.   | Volume C.F.M.<br>Static Pressure 3/8" Water .217 ozs. per sq. inch | H. P.   | Volume C.F.M.<br>Static Pressure 1/2" Water .289 ozs. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure 5/8" Water .361 ozs. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure 3/4" Water .434 ozs. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure 7/8" Water .506 ozs. per sq. inch | H. P. |
|--------|------------------|------------------|---|---|--|---|--|---|--|-------|--|-------|--|-------|--|-------|
| 295    | 1400             | 0 157            | 640   | 0 024   |  |   |  |   |  |       |  |       |  |       |  |       |
| 339    | 1600             | 0 205            | 938   | 0 044   |  |   |  |   |  |       |  |       |  |       |  |       |
| 382    | 1800             | 0 259            | 1,190   | 0 068   | 592  | 0 042   |  |   |  |       |  |       |  |       |  |       |
| 425    | 2000             | 0 320            | 1,422   | 0 096   | 938  | 0 068   |  |   |  |       |  |       |  |       |  |       |
| 467    | 2200             | 0 387            | 1,640   | 0 135   | 1,240  | 0 110   | 600  | 0 076   |  |       |  |       |  |       |  |       |
| 510    | 2400             | 0 460            | 1,830   | 0 18  | 1,500  | 0 155   | 1,070  | 0 125   |  |       |  |       |  |       |  |       |
| 551    | 2600             | 0 540            | 2,020   | 0 23  | 1,750  | 0 20  | 1,370  | 0 175   | 938  | 0 15  |  |       |  |       |  |       |
| 595    | 2800             | 0 626            | 2,200   | 0 29  | 2,000  | 0 26  | 1,660  | 0 23  | 1,278  | 0 20  |  |       |  |       |  |       |
| 637    | 3000             | 0 718            | 2,380   | 0 37  | 2,200  | 0 34  | 1,920  | 0 30  | 1,580  | 0 27  | 1,210  | 0 23  |  |       |  |       |
| 680    | 3200             | 0 816            | 2,540   | 0 45  | 2,400  | 0 42  | 2,160  | 0 38  | 1,870  | 0 35  | 1,530  | 0 31  | 1,160  | 0 25  |  |       |
| 721    | 3400             | 0 922            | 2,720   | 0 53  | 2,600  | 0 51  | 2,400  | 0 47  | 2,110  | 0 45  | 1,840  | 0 39  | 1,480  | 0 34  | 1,150  | 0 29  |
| 765    | 3600             | 1 03             | 2,900   | 0 66  | 2,760  | 0 62  | 2,600  | 0 58  | 2,380  | 0 53  | 2,120  | 0 49  | 1,800  | 0 45  | 1,510  | 0 40  |
| 806    | 3800             | 1 15             | 3,080   | 0 77  | 2,960  | 0 72  | 2,820  | 0 68  | 2,620  | 0 64  | 2,380  | 0 62  | 2,100  | 0 55  | 1,830  | 0 51  |
| 850    | 4000             | 1 28             | 3,240   | 0 89  |  |   | 3,020  | 0 83  | 2,800  | 0 77  | 2,640  | 0 75  | 2,420  | 0 68  | 2,160  | 0 64  |
| 891    | 4200             | 1 41             | 3,420   | 1 05  |  |   | 3,220  | 0 98  | 3,060  | 0 92  | 2,900  | 0 87  | 2,660  | 0 83  | 2,440  | 0 79  |
| 935    | 4400             | 1 54             | 3,580   | 1 20  |  |   | 3,400  | 1 10  | 3,260  | 1 05  | 3,120  | 1 00  | 2,920  | 0 98  | 2,680  | 0 94  |
| 976    | 4600             | 1 69             | 3,760   | 1 35  |  |   | 3,580  | 1 30  | 3,480  | 1 25  | 3,340  | 1 20  | 3,140  | 1 15  | 2,980  | 1 10  |
| 1019   | 4800             | 1 84             | 3,920   | 1 55  |  |   | 3,760  | 1 15  | 3,660  | 1 40  | 3,540  | 1 40  | 3,380  | 1 30  | 3,200  | 1 30  |
| 1060   | 5000             | 2 00             | 4,100   | 1 75  |  |   |  |   | 3,840  | 1 65  | 3,740  | 1 60  | 3,600  | 1 55  | 3,440  | 1 45  |
| 1113   | 5250             | 2 20             | 4,300   | 2 1   |  |   |  |   | 4,080  | 1 90  | 3,980  | 1 85  | 3,860  | 1 80  | 3,720  | 1 75  |
| 1168   | 5500             | 2 42             | 4,520   | 2 4   |  |   |  |   | 4,300  | 2 2   | 4,220  | 2 2   | 4,100  | 2 1   | 3,980  | 2 1   |
| 1220   | 5750             | 2 51             | 4,700   | 2 6   |  |   |  |   |  |       | 4,420  | 2 4   | 4,340  | 2 3   | 4,220  | 2 3   |
| 1272   | 6000             | 2 87             | 4,910   | 3 1   |  |   |  |   |  |       | 4,640  | 2 9   | 4,600  | 2 8   | 4,520  | 2 8   |
| 1328   | 6250             | 3 12             | 5,120   | 3 5   |  |   |  |   |  |       |  |       | 4,820  | 3 2   | 4,700  | 3 1   |
| 1380   | 6500             | 3 38             | 5,360   | 3 9   |  |   |  |   |  |       |  |       | 5,080  | 3 7   | 4,980  | 3 6   |
| 1431   | 6750             | 3 63             | 5,560   | 4 4   |  |   |  |   |  |       |  |       |  |       | 5,220  | 4 0   |
| 1486   | 7000             | 3 91             | 5,760   | 4 9   |  |   |  |   |  |       |  |       |  |       | 5,560  | 4 5   |
| 1500   | 7500             | 4 50             | 6,180   | 6   |  |   |  |   |  |       |  |       |  |       |  |       |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 ozs. per sq. inch                     | Static Pressure 1 1/4" Water .723 ozs. per sq. inch | Static Pressure 1 1/2" Water .878 ozs. per sq. inch                | Static Pressure 1 3/4" Water 1.01 ozs. per sq. inch | Static Pressure 2" Water 1.16 ozs. per sq. inch                    | Static Pressure 2 1/4" Water 1.30 ozs. per sq. inch | Static Pressure 2 1/2" Water 1.45 ozs. per sq. inch                |       |  |       |  |       |  |       |
| 765    | 3600             | 1 03             | 1,180   | 0 34  |  |   |  |   |  |       |  |       |  |       |  |       |
| 806    | 3800             | 1 15             | 1,530   | 0 45  |  |   |  |   |  |       |  |       |  |       |  |       |
| 850    | 4000             | 1 28             | 1,872   | 0 60  | 1,290  | 0 51  |  |   |  |       |  |       |  |       |  |       |
| 891    | 4200             | 1 41             | 2,180   | 0 72  | 1,640  | 0 60  |  |   |  |       |  |       |  |       |  |       |
| 935    | 4400             | 1 54             | 2,460   | 0 87  | 1,950  | 0 75  | 1,420  | 0 60  |  |       |  |       |  |       |  |       |
| 976    | 4600             | 1 69             | 2,760   | 1 00  | 2,280  | 0 94  | 1,780  | 0 79  |  |       |  |       |  |       |  |       |
| 1019   | 4800             | 1 84             | 3,000   | 1 25  | 2,600  | 1 1   | 2,140  | 0 98  | 1,630  | 0 81  |  |       |  |       |  |       |
| 1060   | 5000             | 2 00             | 3,260   | 1 1   | 2,880  | 1 3   | 2,460  | 1 20  | 2,000  | 1 0   |  |       |  |       |  |       |
| 1113   | 5250             | 2 20             | 3,540   | 1 7   | 3,220  | 1 6   | 2,840  | 1 45  | 2,400  | 1 3   | 1,900  | 1 10  |  |       |  |       |
| 1168   | 5500             | 2 42             | 3,840   | 2 0   | 3,540  | 1 9   | 3,160  | 1 75  | 2,780  | 1 6   | 2,400  | 1 45  | 1,970  | 1 30  |  |       |
| 1220   | 5750             | 2 51             | 4,080   | 2 2   | 3,780  | 2 1   | 3,500  | 2 0   | 3,180  | 1 9   | 2,800  | 1 75  | 2,240  | 1 55  |  |       |
| 1272   | 6000             | 2 87             | 4,400   | 2 7   | 4,140  | 2 5   | 3,840  | 2 4   | 3,520  | 2 3   | 3,160  | 2 1   | 2,800  | 2 0   | 2,420  | 1 75  |
| 1328   | 6250             | 3 12             | 4,660   | 3 1   | 4,420  | 2 9   | 4,140  | 2 8   | 3,860  | 2 7   | 3,560  | 2 5   | 3,200  | 2 5   | 2,840  | 2 2   |
| 1380   | 6500             | 3 38             | 4,900   | 3 5   | 4,680  | 3 4   | 4,420  | 3 2   | 4,200  | 3 1   | 3,900  | 2 9   | 3,560  | 2 8   | 3,240  | 2 6   |
| 1431   | 6750             | 3 63             | 5,140   | 4 0   | 4,960  | 3 8   | 4,720  | 3 7   | 4,480  | 3 5   | 4,200  | 3 4   | 3,920  | 3 2   | 3,620  | 3 1   |
| 1486   | 7000             | 3 91             | 5,360   | 4 5   | 5,200  | 4 3   | 5,000  | 4 2   | 4,760  | 4 0   | 4,520  | 3 9   | 4,260  | 3 7   | 3,960  | 3 5   |
| 1500   | 7500             | 4 50             | 5,840   | 5 8   | 5,700  | 5 5   | 5,520  | 5 3   | 5,320  | 5 1   | 5,160  | 4 9   | 4,880  | 4 8   | 4,640  | 4 7   |
| 1698   | 8000             | 5 11             |   |   | 6,160  | 6 8   | 6,040  | 6 6   | 5,880  | 6 4   | 5,700  | 6 2   | 5,480  | 6 0   | 5,280  | 6 0   |
| 1802   | 8500             | 5 76             |   |   | 6,620  | 8 2   | 6,520  | 8 0   | 6,340  | 7 9   | 6,220  | 7 7   | 6,040  | 7 4   | 5,880  | 7 2   |
| 1910   | 9000             | 6 46             |   |   | 7,080  | 9 8   | 6,960  | 9 6   | 6,860  | 9 4   | 6,740  | 9 2   | 6,580  | 9 1   | 6,440  | 8 7   |
| 2020   | 9500             | 7 20             |   |   |  |   | 7,440  | 11 5  | 7,320  | 11 5  | 7,200  | 11    | 7,080  | 11    | 6,980  | 10 5  |
| 2120   | 10000            | 7 98             |   |   |  |   | 7,920  | 13 5  | 7,800  | 13    | 7,700  | 13    | 7,580  | 13    | 7,460  | 13    |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 2 3/4" Water 1.59 ozs. per sq. inch                 | Static Pressure 3" Water 1.73 ozs. per sq. inch     | Static Pressure 3 1/2" Water 2.02 ozs. per sq. inch                | Static Pressure 4" Water 2.31 ozs. per sq. inch     | Static Pressure 5" Water 2.89 ozs. per sq. inch                    | Static Pressure 6" Water 3.47 ozs. per sq. inch     | Static Pressure 7" Water 4.05 ozs. per sq. inch                    |       |  |       |  |       |  |       |
| 1328   | 6250             | 3 12             | 2,460   | 2 0   |  |   |  |   |  |       |  |       |  |       |  |       |
| 1380   | 6500             | 3 38             | 2,880   | 2 4   | 2,520  | 2 2   |  |   |  |       |  |       |  |       |  |       |
| 1431   | 6750             | 3 63             | 3,260   | 2 9   | 2,940  | 2 7   |  |   |  |       |  |       |  |       |  |       |
| 1486   | 7000             | 3 91             | 3,660   | 3 4   | 3,380  | 3 2   | 2,680  | 2 8   |  |       |  |       |  |       |  |       |
| 1500   | 7500             | 4 50             | 4,400   | 4 5   | 4,120  | 4 3   | 3,520  | 3 9   | 2,920  | 3 4   |  |       |  |       |  |       |
| 1698   | 8000             | 5 11             | 5,060   | 5 7   | 4,820  | 5 5   | 4,300  | 5 1   | 3,740  | 4 7   | 2,560  | 3 7   |  |       |  |       |
| 1802   | 8500             | 5 76             | 5,680   | 7 1   | 5,460  | 6 8   | 4,980  | 6 6   | 4,480  | 6 2   | 3,420  | 5 1   |  |       |  |       |
| 1910   | 9000             | 6 46             | 6,260   | 8 7   | 6,040  | 8 5   | 5,660  | 8 1   | 5,200  | 7 7   | 4,240  | 6 6   | 3,240  | 5 5   |  |       |
| 2020   | 9500             | 7 20             | 6,800   | 10 5  | 6,640  | 10 0  | 6,300  | 9 8   | 5,880  | 9 4   | 5,020  | 8 5   | 4,080  | 7 4   | 3,080  | 6 2   |
| 2120   | 10000            | 7 98             | 7,340   | 12 5  | 7,200  | 12 5  | 6,860  | 12  | 6,520  | 11 5  | 5,760  | 10 5  | 4,900  | 9 4   | 3,960  | 8 1   |

Double Inlet

**35" Steel Plate Fan—Design 1**

Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances.

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.<br>Static Pressure 1/8" Water<br>.0722 ozs. per sq. inch | H. P.  | Volume C.F.M.<br>Static Pressure 1/4" Water<br>.145 ozs. per sq. inch | H. P.  | Volume C.F.M.<br>Static Pressure 1/2" Water<br>.217 ozs. per sq. inch | H. P.  | Volume C.F.M.<br>Static Pressure 3/4" Water<br>.289 ozs. per sq. inch | H. P.  | Volume C.F.M.<br>Static Pressure 1" Water<br>.361 ozs. per sq. inch | H. P.  | Volume C.F.M.<br>Static Pressure 1 1/4" Water<br>.434 ozs. per sq. inch | H. P.  | Volume C.F.M.<br>Static Pressure 1 1/2" Water<br>.506 ozs. per sq. inch | H. P.  |
|--------|------------------|------------------|--|--|---|--|---|--|---|--|---|--|---|--|---|--|
| 255    | 1400             | 0 157            | 956  | 0 031  |   |  |   |  |   |  |   |  |   |  |   |  |
| 291    | 1600             | 0 205            | 1,100  | 0 068  |   |  |   |  |   |  |   |  |   |  |   |  |
| 328    | 1800             | 0 259            | 1,700  | 0 10   |   |  |   |  |   |  |   |  |   |  |   |  |
| 361    | 2000             | 0 320            | 2,110  | 0 11   | 1,400   | 0 10   |   |  |   |  |   |  |   |  |   |  |
| 400    | 2200             | 0 387            | 2,160  | 0 20   | 1,860   | 0 17   | 1,080   | 0 110  |   |  |   |  |   |  |   |  |
| 436    | 2400             | 0 460            | 2,710  | 0 27   | 2,260   | 0 23   | 1,500   | 0 185  |   |  |   |  |   |  |   |  |
| 473    | 2600             | 0 540            | 3,020  | 0 34   | 2,620   | 0 31   | 2,060   | 0 26   | 1,400   | 0 22   |   |  |   |  |   |  |
| 509    | 2800             | 0 626            | 3,300  | 0 44   | 2,980   | 0 40   | 2,480   | 0 35   | 1,910   | 0 30   |   |  |   |  |   |  |
| 545    | 3000             | 0 718            | 3,540  | 0 55   | 3,300   | 0 50   | 2,880   | 0 45   | 2,380   | 0 40   | 1,810   | 0 31   |   |  |   |  |
| 581    | 3200             | 0 816            | 3,820  | 0 67   | 3,600   | 0 62   | 3,210   | 0 57   | 2,800   | 0 52   | 2,300   | 0 46   | 1,740   | 0 38   |   |  |
| 619    | 3400             | 0 922            | 4,080  | 0 80   | 3,880   | 0 77   | 3,600   | 0 70   | 3,220   | 0 67   | 2,760   | 0 59   | 2,220   | 0 51   | 1,730   | 0 43   |
| 655    | 3600             | 1 03             | 4,310  | 1 00   | 4,110   | 0 92   | 3,900   | 0 86   | 3,580   | 0 80   | 3,180   | 0 73   | 2,700   | 1 07   | 2,260   | 0 60   |
| 690    | 3800             | 1 15             | 4,600  | 1 15   |   |  | 4,210   | 1 00   | 3,900   | 0 96   | 3,580   | 0 92   | 3,160   | 0 83   | 2,740   | 0 77   |
| 727    | 4000             | 1 28             | 4,860  | 1 35   |   |  | 4,520   | 1 25   | 4,260   | 1 15   | 3,960   | 1 10   | 3,600   | 1 00   | 3,220   | 0 96   |
| 761    | 4200             | 1 41             | 5,120  | 1 55   |   |  | 4,820   | 1 45   | 4,580   | 1 4  | 4,340   | 1 30   | 4,000   | 1 25   | 3,660   | 1 20   |
| 800    | 4400             | 1 54             | 5,380  | 1 8  |   |  | 5,080   | 1 65   | 4,900   | 1 6  | 4,680   | 1 55   | 4,360   | 1 45   | 4,020   | 1 40   |
| 837    | 4600             | 1 69             | 5,620  | 2 0  |   |  | 5,360   | 1 95   | 5,220   | 1 9  | 5,020   | 1 8  | 4,720   | 1 7  | 4,440   | 1 65   |
| 873    | 4800             | 1 84             | 5,860  | 2 3  |   |  | 5,620   | 2 2  | 5,480   | 2 1  | 5,280   | 2 1  | 5,060   | 2 0  | 4,800   | 1 9  |
| 910    | 5000             | 2 00             | 6,120  | 2 6  |   |  |   |  | 5,760   | 2 5  | 5,600   | 2 4  | 5,400   | 2 3  | 5,140   | 2 2  |
| 955    | 5250             | 2 20             | 6,440  | 3 1  |   |  |   |  | 6,120   | 2 9  | 5,960   | 2 8  | 5,800   | 2 7  | 5,580   | 2 6  |
| 1000   | 5500             | 2 42             | 6,760  | 3 6  |   |  |   |  | 6,440   | 3 1  | 6,320   | 3 3  | 6,140   | 3 2  | 5,980   | 3 1  |
| 1046   | 5750             | 2 51             | 7,060  | 3 9  |   |  |   |  |   |  | 6,620   | 3 6  | 6,500   | 3 5  | 6,320   | 3 4  |
| 1090   | 6000             | 2 87             | 7,400  | 4 6  |   |  |   |  |   |  | 6,960   | 4 3  | 6,900   | 4 2  | 6,760   | 4 1  |
| 1137   | 6250             | 3 12             | 7,700  | 5 2  |   |  |   |  |   |  |   |  | 7,240   | 1 8  | 7,040   | 4 7  |
| 1181   | 6500             | 3 38             | 8,020  | 5 9  |   |  |   |  |   |  |   |  | 7,600   | 5 5  | 7,460   | 5 4  |
| 1228   | 6750             | 3 63             | 8,280  | 6 6  |   |  |   |  |   |  |   |  |   |  | 7,800   | 6 0  |
| 1271   | 7000             | 3 91             | 8,620  | 7 3  |   |  |   |  |   |  |   |  |   |  | 8,160   | 6 7  |
| 1302   | 7500             | 4 50             | 9,240  | 8 0  |   |  |   |  |   |  |   |  |   |  |   |  |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water<br>.578 ozs. per sq. inch                     | Static Pressure 1 1/4" Water<br>.723 ozs. per sq. inch | Static Pressure 1 1/2" Water<br>.878 ozs. per sq. inch                | Static Pressure 1 3/4" Water<br>1.01 ozs. per sq. inch | Static Pressure 2" Water<br>1.16 ozs. per sq. inch                    | Static Pressure 2 1/4" Water<br>1.30 ozs. per sq. inch | Static Pressure 2 1/2" Water<br>1.45 ozs. per sq. inch                | Static Pressure 2 3/4" Water<br>1.60 ozs. per sq. inch | Static Pressure 3" Water<br>1.75 ozs. per sq. inch                  | Static Pressure 3 1/4" Water<br>1.90 ozs. per sq. inch | Static Pressure 3 1/2" Water<br>2.05 ozs. per sq. inch                  | Static Pressure 3 3/4" Water<br>2.20 ozs. per sq. inch | Static Pressure 3 1/2" Water<br>2.35 ozs. per sq. inch                  | Static Pressure 3 1/2" Water<br>2.50 ozs. per sq. inch |
| 655    | 3600             | 1 03             | 1,770  | 0 50   |   |  |   |  |   |  |   |  |   |  |   |  |
| 690    | 3800             | 1 15             | 2,300  | 0 67   |   |  |   |  |   |  |   |  |   |  |   |  |
| 727    | 4000             | 1 28             | 2,800  | 0 90   | 1,030   | 0 76   |   |  |   |  |   |  |   |  |   |  |
| 761    | 4200             | 1 41             | 3,260  | 1 10   | 2,460   | 0 89   |   |  |   |  |   |  |   |  |   |  |
| 800    | 4400             | 1 54             | 3,680  | 1 30   | 2,920   | 1 10   | 2,140   | 0 89   |   |  |   |  |   |  |   |  |
| 837    | 4600             | 1 69             | 4,140  | 1 55   | 3,420   | 1 40   | 2,680   | 1 20   |   |  |   |  |   |  |   |  |
| 873    | 4800             | 1 84             | 4,500  | 1 85   | 3,880   | 1 75   | 3,180   | 1 45   | 2,440   | 1 20   |   |  |   |  |   |  |
| 910    | 5000             | 2 00             | 4,900  | 2 1  | 4,320   | 1 95   | 3,600   | 1 8  | 2,980   | 1 55   |   |  |   |  |   |  |
| 955    | 5250             | 2 20             | 5,320  | 2 5  | 4,820   | 2 4  | 4,240   | 2 2  | 3,580   | 1 95   | 2,940   | 1 7  |   |  |   |  |
| 1000   | 5500             | 2 42             | 5,760  | 3 0  | 5,320   | 2 8  | 4,700   | 2 6  | 4,160   | 2 40   | 3,580   | 2 2  | 2,960   | 1 9  |   |  |
| 1046   | 5750             | 2 51             | 6,100  | 3 3  | 5,680   | 3 2  | 5,200   | 3 0  | 4,760   | 2 8  | 4,200   | 2 6  | 3,360   | 2 3  |   |  |
| 1090   | 6000             | 2 87             | 6,560  | 4 0  | 6,180   | 3 8  | 5,740   | 3 6  | 5,260   | 3 4  | 4,740   | 3 2  | 4,200   | 3 0  | 3,620   | 2 7  |
| 1137   | 6250             | 3 12             | 6,980  | 4 7  | 6,620   | 4 4  | 6,200   | 4 2  | 5,780   | 4 0  | 5,340   | 3 8  | 4,780   | 3 6  | 4,210   | 3 3  |
| 1181   | 6500             | 3 38             | 7,340  | 5 3  | 7,020   | 5 0  | 6,640   | 4 8  | 6,280   | 4 7  | 5,840   | 4 3  | 5,340   | 4 2  | 4,860   | 4 0  |
| 1228   | 6750             | 3 63             | 7,700  | 6 0  | 7,440   | 5 8  | 7,080   | 5 5  | 6,700   | 5 3  | 6,320   | 5 1  | 5,860   | 4 8  | 5,440   | 4 6  |
| 1271   | 7000             | 3 91             | 8,040  | 6 7  | 7,780   | 6 4  | 7,460   | 6 2  | 7,140   | 6 0  | 6,760   | 5 8  | 6,380   | 5 6  | 5,940   | 5 3  |
| 1302   | 7500             | 4 50             | 8,740  | 8 6  | 8,540   | 8 3  | 8,300   | 8 0  | 7,980   | 7 6  | 7,720   | 7 3  | 7,340   | 7 2  | 6,960   | 7 0  |
| 1453   | 8000             | 5 11             |  |  | 9,240   | 10   | 9,060   | 9 9  | 8,800   | 9 6  | 8,540   | 9 2  | 8,220   | 9 0  | 7,920   | 8 9  |
| 1515   | 8500             | 5 76             |  |  | 9,940   | 12   | 9,790   | 12 0   | 9,500   | 12   | 9,300   | 11 5   | 9,080   | 11 0   | 8,800   | 11   |
| 1637   | 9000             | 6 46             |  |  | 10,600  | 15   | 10,500  | 14 5   | 10,300  | 14   | 10,100  | 13 5   | 9,880   | 13 5   | 9,620   | 13   |
| 1728   | 9500             | 7 20             |  |  | 11,200  | 17   | 11,200  | 17   | 11,000  | 17   | 10,800  | 16 5   | 10,600  | 16   | 10,500  | 16   |
| 1819   | 10000            | 7 98             |  |  | 11,900  | 20   | 11,900  | 20   | 11,700  | 20   | 11,500  | 20   | 11,400  | 19   | 11,200  | 19   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 2 3/4" Water<br>2.59 ozs. per sq. inch                 | Static Pressure 3" Water<br>2.73 ozs. per sq. inch     | Static Pressure 3 1/4" Water<br>2.82 ozs. per sq. inch                | Static Pressure 3 1/2" Water<br>2.91 ozs. per sq. inch | Static Pressure 3 3/4" Water<br>3.00 ozs. per sq. inch                | Static Pressure 3 3/4" Water<br>3.09 ozs. per sq. inch | Static Pressure 3 3/4" Water<br>3.18 ozs. per sq. inch                | Static Pressure 3 3/4" Water<br>3.27 ozs. per sq. inch | Static Pressure 3 3/4" Water<br>3.36 ozs. per sq. inch              | Static Pressure 3 3/4" Water<br>3.45 ozs. per sq. inch | Static Pressure 3 3/4" Water<br>3.54 ozs. per sq. inch                  | Static Pressure 3 3/4" Water<br>3.63 ozs. per sq. inch | Static Pressure 3 3/4" Water<br>3.72 ozs. per sq. inch                  | Static Pressure 3 3/4" Water<br>3.81 ozs. per sq. inch |
| 1137   | 6250             | 3 12             | 3,700  | 3 0  |   |  |   |  |   |  |   |  |   |  |   |  |
| 1181   | 6500             | 3 38             | 4,320  | 3 7  | 3,780   | 3 3  |   |  |   |  |   |  |   |  |   |  |
| 1228   | 6750             | 3 63             | 4,900  | 4 3  | 4,400   | 4 0  |   |  |   |  |   |  |   |  |   |  |
| 1271   | 7000             | 3 91             | 5,480  | 5 1  | 5,060   | 4 8  | 4,040   | 4 1  |   |  |   |  |   |  |   |  |
| 1302   | 7500             | 4 50             | 6,580  | 6 7  | 6,160   | 6 4  | 5,260   | 5 8  | 4,360   | 5 1  |   |  |   |  |   |  |
| 1453   | 8000             | 5 11             | 7,580  | 8 6  | 7,200   | 8 3  | 6,440   | 7 6  | 5,600   | 7 0  | 3,820   | 5 5  |   |  |   |  |
| 1545   | 8500             | 5 76             | 8,540  | 10 5   | 8,100   | 10 0   | 7,460   | 9 9  | 6,700   | 9 2  | 5,120   | 7 7  |   |  |   |  |
| 1637   | 9000             | 6 46             | 9,380  | 13 0   | 9,160   | 13 0   | 8,500   | 12 0   | 7,780   | 11 5   | 6,360   | 9 9  | 4,840   | 8 3  |   |  |
| 1728   | 9500             | 7 20             | 10,200   | 15 5   | 9,940   | 15 5   | 9,410   | 14 5   | 8,800   | 14   | 7,520   | 13 0   | 6,120   | 11   | 4,620   | 9 2  |
| 1819   | 10000            | 7 98             | 11,000   | 19   | 10,800  | 18 5   | 10,300  | 18   | 9,760   | 17   | 8,600   | 15 5   | 7,340   | 11   | 5,940   | 12   |

Double Inlet

## 40" Steel Plate Fan—Design 1

Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances.

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M. H. P. Static Pressure 1/2" Water .0722 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 3/4" Water .145 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1" Water .217 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1 1/4" Water .289 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1 1/2" Water .361 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1 3/4" Water .434 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 2" Water .506 ozs. per sq. inch |
|--------|------------------|------------------|--|---|---|---|---|---|---|
| 223    | 1400             | 0 157            | 1,250 0 048  |   |   |   |   |   |   |
| 255    | 1600             | 0 205            | 1,840 0 088  |   |   |   |   |   |   |
| 287    | 1800             | 0 259            | 2,340 0 135  | 1,160 0 082   |   |   |   |   |   |
| 318    | 2000             | 0 320            | 2,780 0 19   | 1,840 0 135   |   |   |   |   |   |
| 350    | 2200             | 0 387            | 3,200 0 26   | 2,410 0 22  | 1,410 0 15  |   |   |   |   |
| 382    | 2400             | 0 460            | 3,580 0 35   | 2,940 0 30  | 2,080 0 24  |   |   |   |   |
| 414    | 2600             | 0 540            | 3,940 0 45   | 3,420 0 40  | 2,680 0 31  | 1,810 0 29  |   |   |   |
| 445    | 2800             | 0 626            | 4,300 0 58   | 3,900 0 52  | 3,240 0 46  | 2,500 0 39  |   |   |   |
| 478    | 3000             | 0 718            | 4,660 0 72   | 4,320 0 66  | 3,760 0 59  | 3,100 0 53  | 2,360 0 44  |   |   |
| 510    | 3200             | 0 816            | 4,980 0 88   | 4,700 0 82  | 4,240 0 74  | 3,680 0 68  | 3,000 0 60  | 2,280 0 50  |   |
| 541    | 3400             | 0 922            | 5,340 1 05   | 5,080 1 0   | 4,700 0 92  | 4,200 0 88  | 3,600 0 77  | 2,900 0 67  | 2,260 0 57  |
| 573    | 3600             | 1 03             | 5,680 1 30   | 5,400 1 2   | 5,100 1 10  | 4,680 1 05  | 4,160 0 98  | 3,520 0 88  | 2,960 0 78  |
| 605    | 3800             | 1 15             | 6,020 1 50   | 5,800 1 4   | 5,520 1 35  | 5,120 1 25  | 4,680 1 20  | 4,140 1 10  | 3,580 1 00  |
| 637    | 4000             | 1 28             | 6,360 1 75   |   | 5,920 1 6   | 5,560 1 5   | 5,180 1 45  | 4,720 1 35  | 4,220 1 25  |
| 670    | 4200             | 1 41             | 6,700 2 0  |   | 6,300 1 9   | 6,000 1 8   | 5,680 1 7   | 5,220 1 6   | 4,780 1 55  |
| 700    | 4400             | 1 54             | 7,040 2 3  |   | 6,640 2 2   | 6,400 2 1   | 6,120 2 0   | 5,700 1 9   | 5,260 1 85  |
| 732    | 4600             | 1 69             | 7,360 2 7  |   | 7,020 2 5   | 6,820 2 5   | 6,500 2 4   | 6,160 2 3   | 5,820 2 2   |
| 765    | 4800             | 1 81             | 7,660 3 0  |   | 7,360 2 9   | 7,180 2 8   | 6,920 2 7   | 6,620 2 6   | 6,280 2 5   |
| 796    | 5000             | 2 00             | 8,020 3 5  |   |   | 7,520 3 2   | 7,300 3 1   | 7,060 3 0   | 6,720 2 9   |
| 836    | 5250             | 2 20             | 8,420 4 0  |   |   | 8,000 3 7   | 7,800 3 6   | 7,580 3 6   | 7,280 3 4   |
| 875    | 5500             | 2 42             | 8,810 4 7  |   |   | 8,420 4 4   | 8,280 4 3   | 8,040 4 2   | 7,800 4 0   |
| 915    | 5750             | 2 54             | 9,240 5 1  |   |   |   | 8,600 4 7   | 8,500 4 6   | 8,260 4 5   |
| 955    | 6000             | 2 87             | 9,680 6 0  |   |   |   | 9,100 5 6   | 9,000 5 5   | 8,840 5 4   |
| 996    | 6250             | 3 12             | 10,100 6 8   |   |   |   |   | 9,460 6 3   | 9,200 6 2   |
| 1034   | 6500             | 3 38             | 10,500 7 7   |   |   |   |   | 9,920 7 3   | 9,760 7 0   |
| 1074   | 6750             | 3 63             | 10,900 8 6   |   |   |   |   |   | 10,200 7 9  |
| 1115   | 7000             | 3 91             | 11,300 9 6   |   |   |   |   |   | 10,700 8 8  |
| 1193   | 7500             | 4 50             | 12,100 11 5  |   |   |   |   |   |   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 ozs. per sq. inch                        | Static Pressure 1 1/4" Water .723 ozs. per sq. inch                   | Static Pressure 1 1/2" Water .878 ozs. per sq. inch                 | Static Pressure 1 3/4" Water 1.1 ozs. per sq. inch                      | Static Pressure 2" Water 1.16 ozs. per sq. inch                         | Static Pressure 2 1/4" Water 1.30 ozs. per sq. inch                     | Static Pressure 2 1/2" Water 1.45 ozs. per sq. inch                 |
| 573    | 3600             | 1 03             | 2,320 0 66   |   |   |   |   |   |   |
| 605    | 3800             | 1 15             | 3,000 0 88   |   |   |   |   |   |   |
| 637    | 4000             | 1 28             | 3,680 1 15   | 2,520 1 00  |   |   |   |   |   |
| 670    | 4200             | 1 41             | 4,260 1 4  | 3,200 1 20  |   |   |   |   |   |
| 700    | 4400             | 1 54             | 4,820 1 7  | 3,820 1 50  | 2,780 1 15  |   |   |   |   |
| 732    | 4600             | 1 69             | 5,120 2 0  | 4,160 1 85  | 3,500 1 55  |   |   |   |   |
| 765    | 4800             | 1 81             | 5,900 2 4  | 5,080 2 2   | 4,180 1 9   | 3,180 1 6   |   |   |   |
| 796    | 5000             | 2 00             | 6,100 2 8  | 5,640 2 5   | 4,800 2 3   | 3,900 2 0   |   |   |   |
| 836    | 5250             | 2 20             | 6,960 3 3  | 6,320 3 1   | 5,560 2 9   | 4,700 2 5   | 3,840 2 2   |   |   |
| 875    | 5500             | 2 42             | 7,520 3 9  | 6,960 3 7   | 6,210 3 5   | 5,460 3 2   | 4,680 2 8   | 3,860 2 5   |   |
| 915    | 5750             | 2 54             | 7,980 4 3  | 7,440 4 1   | 6,880 3 9   | 6,020 3 7   | 5,480 3 5   | 4,400 3 0   |   |
| 955    | 6000             | 2 87             | 8,600 5 3  | 8,100 4 9   | 7,520 4 8   | 6,880 4 5   | 6,200 4 2   | 5,480 3 9   | 4,720 3 5   |
| 996    | 6250             | 3 12             | 9,120 6 1  | 8,660 5 8   | 8,120 5 5   | 7,560 5 3   | 7,000 4 9   | 6,260 4 6   | 5,560 4 3   |
| 1034   | 6500             | 3 38             | 9,600 6 9  | 9,180 6 6   | 8,680 6 3   | 8,200 6 1   | 7,610 5 7   | 7,000 5 5   | 6,300 5 2   |
| 1074   | 6750             | 3 63             | 10,100 7 8   | 9,720 7 5   | 9,260 7 2   | 8,760 6 9   | 8,260 6 7   | 7,680 6 3   | 7,100 6 0   |
| 1115   | 7000             | 3 91             | 10,500 8 8   | 10,200 8 3  | 9,760 8 2   | 9,340 7 8   | 8,840 7 6   | 8,360 7 3   | 7,760 6 9   |
| 1193   | 7500             | 4 50             | 11,400 11  | 11,200 11 0   | 10,800 10 5   | 10,400 10 0   | 10,100 9 5  | 9,600 9 5   | 9,100 9 2   |
| 1273   | 8000             | 5 11             |  | 12,100 13 0   | 11,800 13   | 11,500 12 5   | 11,200 12   | 10,700 12 0   | 10,300 11 5   |
| 1352   | 8500             | 5 76             |  | 13,000 16 0   | 12,800 16   | 12,400 15 5   | 12,200 15   | 11,900 14 5   | 11,500 14   |
| 1433   | 9000             | 6 46             |  | 13,900 19 5   | 13,700 19   | 13,400 18 5   | 13,200 18   | 12,900 17   | 12,600 17   |
| 1511   | 9500             | 7 20             |  |   | 14,600 23   | 14,400 23   | 14,100 22   | 13,900 21   | 13,700 21   |
| 1591   | 10000            | 7 98             |  |   | 15,500 27   | 15,300 26   | 15,100 26   | 14,900 25   | 14,600 25   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 2 1/2" Water 1.59 ozs. per sq. inch                    | Static Pressure 3" Water 1.73 ozs. per sq. inch                       | Static Pressure 3 1/2" Water 2.02 ozs. per sq. inch                 | Static Pressure 4" Water 2.31 ozs. per sq. inch                         | Static Pressure 5" Water 2.89 ozs. per sq. inch                         | Static Pressure 6" Water 3.47 ozs. per sq. inch                         | Static Pressure 7" Water 4.05 ozs. per sq. inch                     |
| 996    | 6250             | 3 12             | 4,820 3 9  |   |   |   |   |   |   |
| 1034   | 6500             | 3 38             | 5,060 4 8  | 4,940 4 3   |   |   |   |   |   |
| 1074   | 6750             | 3 63             | 6,400 5 6  | 5,760 5 3   |   |   |   |   |   |
| 1115   | 7000             | 3 91             | 7,180 6 6  | 6,600 6 3   | 5,280 5 4   |   |   |   |   |
| 1193   | 7500             | 4 50             | 8,620 8 8  | 8,080 8 3   | 6,880 7 6   | 5,700 6 7   |   |   |   |
| 1273   | 8000             | 5 11             | 9,920 11   | 9,420 11 0  | 8,420 10  | 7,320 9 2   | 5,000 7 2   |   |   |
| 1352   | 8500             | 5 76             | 11,200 14  | 10,700 13 5   | 9,780 13  | 8,780 12 5  | 6,700 10 0  |   |   |
| 1433   | 9000             | 6 46             | 12,300 17  | 11,900 16 5   | 11,100 16   | 10,200 15 0   | 8,320 13 0  | 6,340 11 0  |   |
| 1511   | 9500             | 7 20             | 13,300 20  | 13,000 20   | 12,400 19   | 11,500 18 5   | 9,840 16 5  | 8,000 14 5  | 3,020 6 0   |
| 1591   | 10000            | 7 98             | 14,400 24  | 14,100 24   | 13,400 23   | 12,800 23   | 11,300 20   | 9,600 18 5  | 3,880 7 9   |

Double Inlet

## 45" Steel Plate Fan—Design 1

Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.<br>Static Pressure 1" Water .0722 oza. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure 1½" Water .145 oza. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure 2" Water .217 oza. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure 2½" Water .289 oza. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure 3" Water .361 oza. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure 3½" Water .434 oza. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure 4" Water .506 oza. per sq. inch | H. P. |
|--------|------------------|------------------|---|-------|---|-------|--|-------|---|-------|--|-------|---|-------|--|-------|
| 198    | 1400             | 0.157            | 1,580   | 0.062 |   |       |  |       |   |       |  |       |   |       |  |       |
| 226    | 1600             | 0.205            | 2,320   | 0.110 |   |       |  |       |   |       |  |       |   |       |  |       |
| 255    | 1800             | 0.259            | 2,960   | 0.168 | 1,470   | 0.105 |  |       |   |       |  |       |   |       |  |       |
| 283    | 2000             | 0.329            | 3,520   | 0.24  | 2,320   | 0.17  |  |       |   |       |  |       |   |       |  |       |
| 311    | 2200             | 0.387            | 4,040   | 0.33  | 3,080   | 0.27  | 1,780  | 0.19  |   |       |  |       |   |       |  |       |
| 340    | 2400             | 0.460            | 4,520   | 0.44  | 3,720   | 0.38  | 2,610  | 0.31  |   |       |  |       |   |       |  |       |
| 368    | 2600             | 0.510            | 4,980   | 0.57  | 4,320   | 0.51  | 3,400  | 0.43  | 2,320   | 0.37  |  |       |   |       |  |       |
| 396    | 2800             | 0.626            | 5,410   | 0.73  | 4,920   | 0.65  | 4,100  | 0.58  | 3,160   | 0.49  |  |       |   |       |  |       |
| 425    | 3000             | 0.718            | 5,880   | 0.91  | 5,410   | 0.83  | 4,760  | 0.75  | 3,920   | 0.66  | 3,000  | 0.56  |   |       |  |       |
| 452    | 3200             | 0.816            | 6,300   | 1.10  | 5,940   | 1.05  | 5,360  | 0.94  | 4,640   | 0.85  | 3,800  | 0.76  | 2,880   | 0.62  |  |       |
| 481    | 3400             | 0.922            | 6,710   | 1.30  | 6,420   | 1.25  | 5,940  | 1.15  | 5,320   | 1.1   | 4,560  | 0.97  | 3,660   | 0.84  | 2,860  | 0.72  |
| 510    | 3600             | 1.03             | 7,160   | 1.65  | 6,840   | 1.5   | 6,440  | 1.4   | 5,900   | 1.3   | 5,260  | 1.20  | 4,460   | 1.1   | 3,740  | 0.99  |
| 537    | 3800             | 1.15             | 7,600   | 1.9   | 7,340   | 1.8   | 6,980  | 1.7   | 6,460   | 1.6   | 5,900  | 1.50  | 5,220   | 1.4   | 4,540  | 1.25  |
| 566    | 4000             | 1.28             | 8,020   | 2.2   |   |       | 7,180  | 2.1   | 7,010   | 1.9   | 6,540  | 1.85  | 5,960   | 1.7   | 5,320  | 1.60  |
| 595    | 4200             | 1.41             | 8,460   | 2.6   |   |       | 7,900  | 2.4   | 7,580   | 2.3   | 7,160  | 2.2   | 6,600   | 2.1   | 6,040  | 1.95  |
| 622    | 4400             | 1.54             | 8,900   | 3.0   |   |       | 8,400  | 2.7   | 8,100   | 2.6   | 7,740  | 2.5   | 7,200   | 2.4   | 6,660  | 2.3   |
| 651    | 4600             | 1.69             | 9,300   | 3.4   |   |       | 8,880  | 3.2   | 8,620   | 3.1   | 8,300  | 3.0   | 7,800   | 2.8   | 7,360  | 2.7   |
| 680    | 4800             | 1.81             | 9,700   | 3.8   |   |       | 9,300  | 3.6   | 9,080   | 3.5   | 8,740  | 3.4   | 8,360   | 3.3   | 7,940  | 3.2   |
| 707    | 5000             | 2.00             | 10,100  | 4.4   |   |       |  |       | 9,520   | 4.1   | 9,240  | 4.0   | 8,920   | 3.8   | 8,500  | 3.6   |
| 733    | 5250             | 2.20             | 10,700  | 5.1   |   |       |  |       | 10,100  | 4.7   | 9,860  | 4.6   | 9,580   | 4.5   | 9,220  | 4.3   |
| 779    | 5500             | 2.42             | 11,200  | 5.9   |   |       |  |       | 10,700  | 5.5   |  |       | 10,500  | 5.4   | 9,880  | 5.1   |
| 814    | 5750             | 2.54             | 11,700  | 6.4   |   |       |  |       |   |       |  |       | 11,000  | 6.0   | 10,400   | 5.6   |
| 850    | 6000             | 2.87             | 12,200  | 7.6   |   |       |  |       |   |       |  |       | 11,500  | 7.1   | 11,200   | 6.9   |
| 885    | 6250             | 3.12             | 12,700  | 8.6   |   |       |  |       |   |       |  |       |   |       | 11,600   | 7.8   |
| 920    | 6500             | 3.38             | 13,300  | 9.7   |   |       |  |       |   |       |  |       |   |       | 12,300   | 8.9   |
| 955    | 6750             | 3.63             | 13,800  | 11    |   |       |  |       |   |       |  |       |   |       | 12,900   | 10    |
| 990    | 7000             | 3.91             | 14,200  | 12    |   |       |  |       |   |       |  |       |   |       | 13,500   | 11    |
| 1060   | 7500             | 4.50             | 15,300  | 15    |   |       |  |       |   |       |  |       |   |       |  |       |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 oza. per sq. inch                   | H. P. | Static Pressure 1½" Water .723 oza. per sq. inch                  | H. P. | Static Pressure 2" Water .878 oza. per sq. inch                  | H. P. | Static Pressure 2½" Water 1.01 oza. per sq. inch                  | H. P. | Static Pressure 3" Water 1.16 oza. per sq. inch                  | H. P. | Static Pressure 3½" Water 1.30 oza. per sq. inch                  | H. P. | Static Pressure 4" Water 1.45 oza. per sq. inch                  | H. P. |
| 510    | 3600             | 1.03             | 2,920   | 0.83  |   |       |  |       |   |       |  |       |   |       |  |       |
| 537    | 3800             | 1.15             | 3,800   | 1.1   |   |       |  |       |   |       |  |       |   |       |  |       |
| 566    | 4000             | 1.28             | 4,610   | 1.5   | 3,180   | 1.25  |  |       |   |       |  |       |   |       |  |       |
| 595    | 4200             | 1.41             | 5,380   | 1.8   | 4,090   | 1.50  |  |       |   |       |  |       |   |       |  |       |
| 622    | 4400             | 1.54             | 6,100   | 2.2   | 4,840   | 1.85  | 3,520  | 1.50  |   |       |  |       |   |       |  |       |
| 651    | 4600             | 1.69             | 6,840   | 2.5   | 5,640   | 2.3   | 4,140  | 1.95  |   |       |  |       |   |       |  |       |
| 680    | 4800             | 1.81             | 7,410   | 3.1   | 6,420   | 2.7   | 5,280  | 2.4   | 4,020   | 2.0   |  |       |   |       |  |       |
| 707    | 5000             | 2.00             | 8,100   | 3.5   | 7,120   | 3.2   | 6,060  | 3.0   | 4,920   | 2.5   |  |       |   |       |  |       |
| 733    | 5250             | 2.20             | 8,800   | 4.2   | 7,980   | 3.9   | 7,020  | 3.6   | 5,940   | 3.2   | 4,840  | 2.8   |   |       |  |       |
| 779    | 5500             | 2.42             | 9,520   | 4.9   | 8,780   | 4.7   | 7,880  | 4.4   | 6,900   | 4.0   | 5,920  | 3.6   | 4,880   | 3.20  |  |       |
| 814    | 5750             | 2.54             | 10,100  | 5.4   | 9,400   | 5.2   | 8,700  | 5.0   | 7,860   | 4.7   | 6,920  | 4.4   | 5,560   | 3.8   |  |       |
| 850    | 6000             | 2.87             | 10,900  | 6.6   | 10,200  | 6.2   | 9,500  | 6.0   | 8,700   | 5.7   | 7,840  | 5.3   | 6,940   | 4.9   | 5,960  | 4.4   |
| 885    | 6250             | 3.12             | 11,500  | 7.8   | 11,000  | 7.3   | 10,200   | 7.0   | 9,540   | 6.6   | 8,820  | 6.2   | 7,920   | 5.9   | 7,000  | 5.5   |
| 920    | 6500             | 3.38             | 12,100  | 8.8   | 11,600  | 8.3   | 11,000   | 8.0   | 10,400  | 7.7   | 9,660  | 7.2   | 8,810   | 6.9   | 8,020  | 6.5   |
| 955    | 6750             | 3.63             | 12,700  | 9.9   | 12,300  | 9.5   | 11,700   | 9.1   | 11,100  | 8.6   | 10,400   | 8.1   | 9,700   | 8.0   | 8,980  | 7.6   |
| 990    | 7000             | 3.91             | 13,300  | 11    | 12,900  | 10.5  | 12,300   | 10.5  | 11,800  | 9.9   | 11,200   | 9.6   | 10,600  | 9.2   | 9,800  | 8.7   |
| 1060   | 7500             | 4.50             | 14,400  | 14    | 14,100  | 14    | 13,700   | 13    | 13,200  | 12.5  | 13,800   | 12    | 12,100  | 12.0  | 11,500   | 11.5  |
| 1131   | 8000             | 5.11             |   |       | 15,300  | 17    | 15,000   | 16    | 14,600  | 16.0  | 14,100   | 15    | 13,600  | 15.0  | 13,100   | 15    |
| 1201   | 8500             | 5.76             |   |       | 16,400  | 20    | 16,140   | 20    | 15,700  | 19.5  | 15,400   | 19    | 15,000  | 18.5  | 14,500   | 18    |
| 1273   | 9000             | 6.46             |   |       | 17,600  | 24    | 17,300   | 24    | 17,000  | 23    | 16,700   | 23    | 16,300  | 22    | 15,900   | 22    |
| 1343   | 9500             | 7.20             |   |       |   |       | 18,500   | 28    | 18,100  | 28    | 17,800   | 27    | 17,600  | 27    | 17,300   | 26    |
| 1414   | 10000            | 7.98             |   |       |   |       | 19,600   | 34    | 19,300  | 33    | 19,100   | 33    | 18,800  | 32    | 18,400   | 32    |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 2½" Water 1.59 oza. per sq. inch                  | H. P. | Static Pressure 3" Water 1.73 oza. per sq. inch                   | H. P. | Static Pressure 3½" Water 2.02 oza. per sq. inch                 | H. P. | Static Pressure 4" Water 2.31 oza. per sq. inch                   | H. P. | Static Pressure 5" Water 2.89 oza. per sq. inch                  | H. P. | Static Pressure 6" Water 3.47 oza. per sq. inch                   | H. P. | Static Pressure 7" Water 4.05 oza. per sq. inch                  | H. P. |
| 885    | 6250             | 3.12             | 6,100   | 5.0   |   |       |  |       |   |       |  |       |   |       |  |       |
| 920    | 6500             | 3.38             | 7,140   | 6.0   | 6,010   | 5.5   |  |       |   |       |  |       |   |       |  |       |
| 955    | 6700             | 3.63             | 8,080   | 7.1   | 7,280   | 6.6   |  |       |   |       |  |       |   |       |  |       |
| 990    | 7000             | 3.91             | 9,060   | 8.4   | 8,340   | 8.0   | 6,660  | 6.9   |   |       |  |       |   |       |  |       |
| 1060   | 7500             | 4.50             | 10,900  | 11.0  | 10,200  | 10.5  | 8,700  | 9.6   | 7,200   | 8.4   |  |       |   |       |  |       |
| 1131   | 8000             | 5.11             | 12,500  | 14.0  | 11,900  | 14    | 10,600   | 12.5  | 9,240   | 11.5  | 6,320  | 9.1   |   |       |  |       |
| 1201   | 8500             | 5.76             | 14,100  | 17.5  | 13,500  | 17    | 12,300   | 16.5  | 11,100  | 15    | 8,480  | 12.5  |   |       |  |       |
| 1273   | 9000             | 6.46             | 15,500  | 21    | 15,000  | 21    | 14,000   | 20    | 12,900  | 19    | 10,500   | 16.5  |   |       |  |       |
| 1343   | 9500             | 7.20             | 16,800  | 26    | 16,400  | 25    | 15,600   | 24    | 14,500  | 23    | 12,400   | 21    | 8,000   | 14.0  | 7,640  | 15    |
| 1414   | 10000            | 7.98             | 18,200  | 31    | 17,800  | 31    | 17,000   | 30    | 16,100  | 28    | 14,200   | 26    | 12,100  | 23    | 9,800  | 20    |

Double Inlet

## 50" Steel Plate Fan—Design 1

Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M. H. P. Static Pressure 1/2" Water .0722 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1/2" Water .145 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1/2" Water .217 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1/2" Water .289 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1/2" Water .361 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1/2" Water .434 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1/2" Water .506 ozs. per sq. inch |
|--------|------------------|------------------|--|---|---|---|---|---|---|
| 178    | 1400             | 0 157            | 1,960 0 076  |   |   |   |   |   |   |
| 204    | 1600             | 0 205            | 2,880 1 135  |   |   |   |   |   |   |
| 229    | 1800             | 0 250            | 3,660 0 21   | 1,810 0 13  |   |   |   |   |   |
| 255    | 2000             | 0 320            | 4,360 0 29   | 2,880 0 21  |   |   |   |   |   |
| 280    | 2200             | 0 387            | 5,000 0 41   | 3,800 0 34  | 2,200 0 23  |   |   |   |   |
| 306    | 2400             | 0 460            | 5,600 0 55   | 4,600 0 47  | 3,260 0 38  |   |   |   |   |
| 331    | 2600             | 0 510            | 6,160 0 70   | 5,340 0 63  | 4,200 0 53  | 2,880 0 16  |   |   |   |
| 356    | 2800             | 0 626            | 6,710 0 90   | 6,080 0 81  | 5,080 0 72  | 3,920 0 61  |   |   |   |
| 382    | 3000             | 0 718            | 7,280 1 10   | 6,710 1 05  | 5,880 0 93  | 4,800 0 82  | 3,700 0 69  |   |   |
| 407    | 3200             | 0 816            | 7,800 1 35   | 7,360 1 30  | 6,620 1 15  | 5,710 1 05  | 4,700 0 94  | 3,560 0 77  |   |
| 433    | 3400             | 0 922            | 8,340 1 65   | 7,940 1 55  | 7,310 1 45  | 6,560 1 35  | 5,620 1 2   | 4,520 1 05  | 3,540 0 89  |
| 458    | 3600             | 1 03             | 8,880 2 0  | 8,460 1 9   | 7,980 1 75  | 7,300 1 65  | 6,500 1 5   | 5,520 1 4   | 4,640 1 20  |
| 484    | 3800             | 1 15             | 9,400 2 3  | 9,080 2 2   | 8,640 2 1   | 8,000 1 95  | 7,300 1 9   | 6,460 1 7   | 5,600 1 55  |
| 510    | 4000             | 1 28             | 9,920 2 7  |   | 9,260 2 5   | 8,700 2 3   | 8,100 2 3   | 7,360 2 1   | 6,600 1 95  |
| 535    | 4200             | 1 41             | 10,500 3 2   |   | 9,840 3 0   | 9,380 2 8   | 8,860 2 7   | 8,180 2 5   | 7,180 2 4   |
| 560    | 4400             | 1 54             | 11,000 3 7   |   | 10,400 3 4  | 10,000 3 3  | 9,580 3 1   | 8,900 3 0   | 8,210 2 9   |
| 585    | 4600             | 1 69             | 11,500 4 2   |   | 11,000 4 0  | 10,700 3 8  | 10,300 3 7  | 9,640 3 5   | 9,100 3 4   |
| 611    | 4800             | 1 84             | 12,000 4 8   |   | 11,500 4 5  | 11,200 4 5  | 10,800 4 2  | 10,300 4 0  | 9,820 3 9   |
| 636    | 5000             | 2 00             | 12,500 5 4   |   |   | 11,800 5 0  | 11,400 4 9  | 11,000 4 7  | 10,500 4 5  |
| 660    | 5250             | 2 20             | 13,200 6 3   |   |   | 13,500 5 8  | 12,200 5 7  | 11,800 5 6  | 11,400 5 3  |
| 700    | 5500             | 2 42             | 13,800 7 3   |   |   | 13,200 6 8  | 13,100 6 8  | 12,600 6 5  | 12,200 6 3  |
| 732    | 5750             | 2 54             | 14,400 7 9   |   |   |   | 13,500 7 4  | 13,300 7 2  | 12,900 7 0  |
| 765    | 6000             | 2 87             | 15,100 9 5   |   |   |   | 14,200 8 7  | 14,100 8 5  | 13,800 8 5  |
| 795    | 6250             | 3 12             | 15,700 10 5  |   |   |   |   | 14,800 9 9  | 14,400 9 6  |
| 823    | 6500             | 3 38             | 16,400 12 0  |   |   |   |   | 15,500 11 5   | 15,300 11 0   |
| 860    | 6750             | 3 63             | 17,000 13 5  |   |   |   |   |   | 16,000 12 5   |
| 891    | 7000             | 3 91             | 17,600 15  |   |   |   |   |   | 16,700 14   |
| 955    | 7500             | 4 50             | 18,900 18  |   |   |   |   |   |   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1 1/2" Water .578 ozs. per sq. inch                    | Static Pressure 1 1/2" Water .723 ozs. per sq. inch                   | Static Pressure 1 1/2" Water .878 ozs. per sq. inch                   | Static Pressure 1 1/2" Water 1.01 ozs. per sq. inch                   | Static Pressure 1 1/2" Water 1.16 ozs. per sq. inch                   | Static Pressure 1 1/2" Water 1.30 ozs. per sq. inch                   | Static Pressure 1 1/2" Water 1.45 ozs. per sq. inch                   |
| 458    | 3600             | 1 03             | 3,620 1 05   |   |   |   |   |   |   |
| 484    | 3800             | 1 15             | 4,700 1 4  |   |   |   |   |   |   |
| 510    | 4000             | 1 28             | 5,740 1 8  | 3,940 1 55  |   |   |   |   |   |
| 535    | 4200             | 1 41             | 6,660 2 2  | 5,020 1 8   |   |   |   |   |   |
| 560    | 4400             | 1 54             | 7,510 2 7  | 5,980 2 3   | 4,360 1 8   |   |   |   |   |
| 585    | 4600             | 1 69             | 8,460 3 1  | 6,980 2 9   | 5,400 2 4   |   |   |   |   |
| 611    | 4800             | 1 84             | 9,200 3 8  | 7,940 3 4   | 6,520 3 0   | 4,980 2 5   |   |   |   |
| 636    | 5000             | 2 00             | 10,000 4 4   | 8,820 4 0   | 7,500 3 7   | 6,080 3 1   |   |   |   |
| 660    | 5250             | 2 20             | 10,900 5 1   | 9,860 4 8   | 8,680 4 4   | 7,340 4 0   | 6,000 3 5   |   |   |
| 700    | 5500             | 2 42             | 11,800 6 1   | 10,900 5 8  | 9,740 5 4   | 8,520 5 0   | 7,320 4 4   | 6,040 3 9   |   |
| 732    | 5750             | 2 54             | 12,480 6 8   | 11,600 6 5  | 10,700 6 1  | 9,740 5 8   | 8,580 5 4   | 6,880 4 7   |   |
| 765    | 6000             | 2 87             | 13,400 8 2   | 12,600 7 7  | 11,700 7 4  | 10,800 7 0  | 9,700 6 5   | 8,600 6 1   | 7,380 5 5   |
| 795    | 6250             | 3 12             | 14,300 9 6   | 13,500 9 0  | 12,700 8 6  | 11,800 8 2  | 10,900 7 7  | 9,800 7 3   | 8,680 6 8   |
| 823    | 6500             | 3 38             | 15,000 11 0  | 14,300 10 5   | 13,600 9 9  | 12,800 9 5  | 11,900 8 9  | 10,900 8 6  | 9,920 8 1   |
| 860    | 6750             | 3 63             | 15,300 12 0  | 15,200 12   | 14,500 11   | 13,700 11 0   | 12,900 10 5   | 12,000 9 9  | 11,100 9 4  |
| 891    | 7000             | 3 91             | 16,400 14 0  | 15,900 13   | 15,300 13   | 14,600 12 0   | 13,800 11   | 13,100 11 5   | 12,100 11 0   |
| 955    | 7500             | 4 50             | 17,900 17 5  | 17,600 17   | 17,000 16   | 16,300 15 5   | 15,800 15   | 15,000 15 0   | 14,200 14 5   |
| 1019   | 8000             | 5 11             |  | 18,900 21   | 18,500 20   | 18,000 19 5   | 17,500 19   | 16,800 18 5   | 16,200 18   |
| 1081   | 8500             | 5 76             |  | 20,400 25   | 20,000 25   | 19,400 24   | 19,000 23   | 18,500 23   | 18,000 22   |
| 1147   | 9000             | 6 46             |  | 21,800 30   | 21,400 29   | 21,000 29   | 20,600 28   | 20,200 28   | 19,700 27   |
| 1210   | 9500             | 7 20             |  |   | 22,800 35   | 22,400 35   | 22,000 34   | 21,600 33   | 21,400 33   |
| 1273   | 10000            | 7 98             |  |   | 24,200 42   | 23,800 40   | 23,400 40   | 23,200 39   | 22,800 39   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 2 1/2" Water 1.59 ozs. per sq. inch                    | Static Pressure 2 1/2" Water 1.73 ozs. per sq. inch                   | Static Pressure 2 1/2" Water 2.02 ozs. per sq. inch                   | Static Pressure 2 1/2" Water 2.31 ozs. per sq. inch                   | Static Pressure 2 1/2" Water 2.59 ozs. per sq. inch                   | Static Pressure 2 1/2" Water 3.47 ozs. per sq. inch                   | Static Pressure 2 1/2" Water 4.05 ozs. per sq. inch                   |
| 795    | 6250             | 3 12             | 7,510 6 1  |   |   |   |   |   |   |
| 823    | 6500             | 3 38             | 8,440 7 5  | 7,720 6 8   |   |   |   |   |   |
| 860    | 6750             | 3 63             | 10,000 8 8   | 9,000 8 2   |   |   |   |   |   |
| 891    | 7000             | 3 91             | 11,200 10 5  | 10,300 10   | 8,220 8 5   |   |   |   |   |
| 955    | 7500             | 4 50             | 13,500 14 0  | 12,600 13   | 10,800 12 0   | 8,900 10 5  |   |   |   |
| 1019   | 8000             | 5 11             | 15,500 17 5  | 14,700 17   | 13,200 15 5   | 11,400 14 5   | 7,820 11 0  |   |   |
| 1081   | 8500             | 5 76             | 17,400 22  | 16,700 21   | 15,300 20   | 13,700 19   | 10,500 15 5   |   |   |
| 1147   | 9000             | 6 46             | 19,200 27  | 18,500 26   | 17,300 25   | 15,900 23   | 13,000 20   | 9,000 17  |   |
| 1210   | 9500             | 7 20             | 20,800 32  | 20,400 31   | 19,300 30   | 18,000 29   | 15,400 26   | 12,500 23   | 9,410 19  |
| 1273   | 10000            | 7 98             | 22,600 38  | 22,000 38   | 21,000 37   | 19,900 35   | 17,600 32   | 15,000 29   | 12,100 25   |



Double Inlet

**55" Steel Plate Fan—Design 1**

Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M. H. P. Static Pressure 1" Water .0722 oza. per sq. inch | Volume C.F.M. H. P. Static Pressure 1½" Water .145 oza. per sq. inch | Volume C.F.M. H. P. Static Pressure 2" Water .217 oza. per sq. inch | Volume C.F.M. H. P. Static Pressure 2½" Water .289 oza. per sq. inch | Volume C.F.M. H. P. Static Pressure 3" Water .361 oza. per sq. inch | Volume C.F.M. H. P. Static Pressure 3½" Water .434 oza. per sq. inch | Volume C.F.M. H. P. Static Pressure 4" Water .506 oza. per sq. inch |
|--------|------------------|------------------|--|--|---|--|---|--|---|
| 162    | 1400             | 0.157            | 2,360 0.091  |  |   |  |   |  |   |
| 185    | 1600             | 0.205            | 3,460 0.165  |  |   |  |   |  |   |
| 208    | 1800             | 0.259            | 4,100 0.25   | 2,180 0.155  |   |  |   |  |   |
| 232    | 2000             | 0.320            | 5,260 0.35   | 3,460 0.25   |   |  |   |  |   |
| 255    | 2200             | 0.387            | 6,040 0.50   | 4,600 0.41   | 2,660 0.28  |  |   |  |   |
| 278    | 2400             | 0.460            | 6,760 0.66   | 5,560 0.57   | 3,940 0.46  |  |   |  |   |
| 301    | 2600             | 0.540            | 7,410 0.85   | 6,460 0.76   | 5,080 0.65  | 3,460 0.55   |   |  |   |
| 324    | 2800             | 0.626            | 8,120 1.10   | 7,340 0.98   | 6,120 0.87  | 4,720 0.73   |   |  |   |
| 347    | 3000             | 0.718            | 8,780 1.35   | 8,120 1.25   | 7,100 1.10  | 5,860 0.99   | 4,480 0.83  |  |   |
| 371    | 3200             | 0.816            | 9,400 1.65   | 8,880 1.55   | 7,980 1.40  | 6,920 1.30   | 5,680 1.15  | 4,300 0.93   |   |
| 394    | 3400             | 0.922            | 10,100 1.95  | 9,600 1.9  | 8,860 1.75  | 7,920 1.65   | 6,800 1.45  | 5,460 1.25   | 4,260 1.1   |
| 416    | 3600             | 1.03             | 10,700 2.4   | 10,200 2.3   | 9,620 2.1   | 8,800 1.95   | 7,840 1.8   | 6,660 1.65   | 5,600 1.5   |
| 440    | 3800             | 1.15             | 11,400 2.8   | 11,000 2.7   | 10,400 2.5  | 9,640 2.4  | 8,800 2.3   | 7,800 2.0  | 6,780 1.9   |
| 463    | 4000             | 1.28             | 12,000 3.3   |  | 11,200 3.1  | 10,500 2.8   | 9,760 2.8   | 8,960 2.5  | 7,960 2.1   |
| 486    | 4200             | 1.41             | 12,600 3.9   |  | 11,900 3.6  | 11,300 3.4   | 10,700 3.2  | 9,860 3.1  | 9,000 2.9   |
| 510    | 4400             | 1.54             | 13,300 4.4   |  | 12,500 4.1  | 12,100 3.9   | 11,500 3.8  | 10,800 3.6   | 9,940 3.5   |
| 532    | 4600             | 1.69             | 13,900 5.0   |  | 13,200 4.8  | 12,900 4.6   | 12,100 4.5  | 11,600 4.2   | 11,000 4.1  |
| 555    | 4800             | 1.81             | 14,500 5.7   |  | 13,900 5.5  | 13,500 5.3   | 13,000 5.1  | 12,500 4.9   | 11,800 4.7  |
| 579    | 5000             | 2.00             | 15,100 6.5   |  |   | 14,200 6.1   | 13,800 5.9  | 13,300 5.7   | 12,700 5.4  |
| 607    | 5250             | 2.20             | 15,900 7.6   |  |   | 15,100 7.1   | 14,700 6.9  | 14,300 6.7   | 13,740 6.4  |
| 636    | 5500             | 2.42             | 16,700 8.8   |  |   | 15,900 8.3   | 15,600 8.0  | 15,200 7.9   | 14,700 7.6  |
| 665    | 5750             | 2.54             | 17,400 9.6   |  |   |  | 16,340 8.9  | 16,000 8.7   | 15,600 8.4  |
| 695    | 6000             | 2.87             | 18,300 11.5  |  |   |  | 17,400 10.5   | 17,000 10.5  | 16,700 10.0   |
| 723    | 6250             | 3.12             | 19,000 13.0  |  |   |  |   | 18,000 12.0  | 17,400 11.5   |
| 753    | 6500             | 3.38             | 19,800 14.5  |  |   |  |   | 18,700 13.5  | 18,300 13.0   |
| 781    | 6750             | 3.63             | 20,600 16  |  |   |  |   |  | 19,300 15.0   |
| 810    | 7000             | 3.91             | 21,200 18  |  |   |  |   |  | 20,200 16.5   |
| 869    | 7500             | 4.50             | 22,800 22  |  |   |  |   |  |   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 oza. per sq. inch                      | Static Pressure 1½" Water .723 oza. per sq. inch                     | Static Pressure 2" Water .878 oza. per sq. inch                     | Static Pressure 2½" Water 1.01 oza. per sq. inch                     | Static Pressure 3" Water 1.16 oza. per sq. inch                     | Static Pressure 3½" Water 1.30 oza. per sq. inch                     | Static Pressure 4" Water 1.45 oza. per sq. inch                     |
| 116    | 3600             | 1.03             | 1,360 1.25   |  |   |  |   |  |   |
| 410    | 3800             | 1.15             | 5,660 1.65   |  |   |  |   |  |   |
| 463    | 4000             | 1.28             | 6,020 2.2  | 4,760 1.9  |   |  |   |  |   |
| 486    | 4200             | 1.41             | 8,020 2.7  | 6,060 2.2  |   |  |   |  |   |
| 510    | 4400             | 1.54             | 9,100 3.2  | 7,220 2.8  | 5,260 2.2   |  |   |  |   |
| 532    | 4600             | 1.69             | 10,200 3.8   | 8,420 3.5  | 6,600 2.9   |  |   |  |   |
| 555    | 4800             | 1.81             | 11,100 4.6   | 9,580 4.1  | 7,880 3.6   | 6,020 3.0  |   |  |   |
| 579    | 5000             | 2.00             | 12,100 5.3   | 10,600 4.8   | 9,060 4.4   | 7,340 3.8  |   |  |   |
| 607    | 5250             | 2.20             | 13,100 6.2   | 11,900 5.8   | 10,500 5.4  | 8,660 4.8  | 7,240 4.2   |  |   |
| 636    | 5500             | 2.42             | 14,200 7.3   | 13,100 7.0   | 11,800 6.5  | 10,300 6.0   | 8,840 5.4   | 7,280 4.8  |   |
| 665    | 5750             | 2.54             | 15,000 8.2   | 13,000 7.8   | 13,000 7.4  | 11,800 7.0   | 10,300 6.5  | 8,300 5.7  |   |
| 695    | 6000             | 2.87             | 16,200 9.9   | 15,300 9.3   | 14,200 9.0  | 13,000 8.5   | 11,700 7.9  | 10,100 7.3   | 8,900 6.6   |
| 723    | 6250             | 3.12             | 17,000 11.5  | 16,300 11  | 15,300 10.5   | 14,300 9.9   | 13,200 9.3  | 11,800 8.8   | 10,500 8.2  |
| 753    | 6500             | 3.38             | 18,100 13.0  | 17,300 12  | 16,400 12.0   | 15,500 11.5  | 14,400 11.0   | 13,200 10.5  | 12,000 9.8  |
| 781    | 6750             | 3.63             | 19,000 15.0  | 18,300 14  | 17,500 13.5   | 16,500 13  | 15,600 12.5   | 14,500 12  | 13,400 11.5   |
| 810    | 7000             | 3.91             | 19,800 16.5  | 19,200 16  | 18,400 15.5   | 17,600 15  | 16,700 14.5   | 15,700 14  | 14,600 13.0   |
| 869    | 7500             | 4.50             | 21,000 21  | 21,000 20  | 20,400 19.5   | 19,700 19  | 19,000 18   | 18,100 18  | 17,200 17.5   |
| 925    | 8000             | 5.11             |  | 22,800 25  | 22,400 24   | 21,800 24  | 21,000 23   | 20,200 22  | 19,500 22   |
| 981    | 8500             | 5.76             |  | 24,600 30  | 24,200 30   | 23,100 29  | 23,000 28   | 22,100 27  | 21,800 27   |
| 1040   | 9000             | 6.46             |  | 26,200 36  | 25,800 35   | 25,400 35  | 24,800 34   | 24,100 34  | 23,800 32   |
| 1100   | 9500             | 7.20             |  |  | 27,600 42   | 27,000 42  | 26,600 41   | 26,200 40  | 25,800 39   |
| 1158   | 10000            | 7.98             |  |  | 29,200 50   | 28,800 49  | 28,600 49   | 28,000 48  | 27,600 47   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 5" Water 2.15 oza. per sq. inch                      | Static Pressure 6" Water 2.73 oza. per sq. inch                      | Static Pressure 7" Water 3.22 oza. per sq. inch                     | Static Pressure 8" Water 3.71 oza. per sq. inch                      | Static Pressure 9" Water 4.20 oza. per sq. inch                     | Static Pressure 10" Water 4.69 oza. per sq. inch                     | Static Pressure 11" Water 5.18 oza. per sq. inch                    |
| 723    | 6250             | 3.12             | 8,700 7.1  |  |   |  |   |  |   |
| 753    | 6500             | 3.38             | 10,200 8.6   | 9,320 8.2  |   |  |   |  |   |
| 781    | 6750             | 3.63             | 11,500 10  | 10,900 9.9   |   |  |   |  |   |
| 810    | 7000             | 3.91             | 12,900 12  | 12,500 12  | 9,940 10.0  |  |   |  |   |
| 869    | 7500             | 4.50             | 15,500 16  | 15,200 16  | 13,000 11.5   | 10,800 12.5  |   |  |   |
| 925    | 8000             | 5.11             | 17,800 21  | 19,800 20  | 15,900 19   | 13,800 17.5  | 9,440 14.5  |  |   |
| 984    | 8500             | 5.76             | 21,000 26  | 20,200 25  | 18,400 24   | 16,500 23  | 12,600 19   |  |   |
| 1040   | 9000             | 6.46             | 23,200 32  | 22,400 31  | 21,000 30   | 19,200 28  | 15,700 24   | 11,900 21  |   |
| 1100   | 9500             | 7.20             | 25,200 39  | 24,600 38  | 23,400 36   | 21,800 35  | 18,600 32   | 15,100 28  | 11,400 23   |
| 1158   | 10000            | 7.98             | 27,200 46  | 26,600 46  | 25,400 44   | 24,000 42  | 21,200 39   | 18,100 35  | 14,600 30   |

Double Inlet

## 60" Steel Plate Fan—Design 1

Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances.

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.<br>Static Pressure<br>1/2" Water<br>.0722 ozs. per<br>sq. inch | H. P.  | Volume C.F.M.<br>Static Pressure<br>1/4" Water<br>.145 ozs. per<br>sq. inch | H. P.  | Volume C.F.M.<br>Static Pressure<br>3/8" Water<br>.217 ozs. per<br>sq. inch | H. P.  | Volume C.F.M.<br>Static Pressure<br>1/2" Water<br>.289 ozs. per<br>sq. inch | H. P.  | Volume C.F.M.<br>Static Pressure<br>5/8" Water<br>.361 ozs. per<br>sq. inch | H. P.  | Volume C.F.M.<br>Static Pressure<br>3/4" Water<br>.434 ozs. per<br>sq. inch | H. P.  | Volume C.F.M.<br>Static Pressure<br>7/8" Water<br>.506 ozs. per<br>sq. inch | H. P. |
|--------|------------------|------------------|--|--|---|--|---|--|---|--------|---|--------|---|--------|---|-------|
| 148    | 1100             | 0 157            | 3,000  | 0 115  |   |  |   |  |   |        |   |        |   |        |   |       |
| 170    | 1600             | 0 205            | 4,100  | 0 21   |   |  |   |  |   |        |   |        |   |        |   |       |
| 191    | 1800             | 0 259            | 5,600  | 0 32   | 2,780   | 0 20   |   |  |   |        |   |        |   |        |   |       |
| 212    | 2000             | 0 320            | 6,680  | 0 45   | 4,400   | 0 32   |   |  |   |        |   |        |   |        |   |       |
| 233    | 2200             | 0 387            | 7,680  | 0 63   | 5,840   | 0 52   | 3,380   | 0 35   |   |        |   |        |   |        |   |       |
| 251    | 2400             | 0 460            | 8,580  | 0 81   | 7,060   | 0 72   | 5,000   | 0 60   |   |        |   |        |   |        |   |       |
| 276    | 2600             | 0 540            | 9,460  | 1 1  | 8,200   | 0 96   | 6,440   | 0 82   | 4,400   | 0 70   |   |        |   |        |   |       |
| 297    | 2800             | 0 626            | 10,300   | 1 1  | 9,320   | 1 25   | 7,780   | 1 1  | 6,000   | 0 93   |   |        |   |        |   |       |
| 318    | 3000             | 0 718            | 11,200   | 1 7  | 10,300  | 1 6  | 9,020   | 1 4  | 7,410   | 1 25   | 5,680   | 1 05   |   |        |   |       |
| 339    | 3200             | 0 816            | 12,000   | 2 1  | 11,300  | 2 0  | 10,100  | 1 8  | 8,800   | 1 6    | 7,200   | 1 45   | 5,460   |        |   |       |
| 360    | 3400             | 0 922            | 12,800   | 2 5  | 12,200  | 2 4  | 11,300  | 2 2  | 10,100  | 2 1    | 8,620   | 1 85   | 6,940   | 1 6    | 5,420   | 1 35  |
| 382    | 3600             | 1 03             | 13,600   | 3 1  | 13,000  | 2 9  | 12,200  | 2 7  | 11,200  | 2 5    | 9,980   | 2 3    | 8,460   | 2 1    | 7,100   | 1 9   |
| 403    | 3800             | 1 15             | 14,400   | 3 6  | 13,900  | 3 4  | 13,300  | 3 2  | 12,300  | 3 0    | 11,200  | 2 9    | 9,900   | 2 6    | 8,600   | 2 4   |
| 425    | 4000             | 1 28             | 15,200   | 4 2  |   |  | 14,200  | 3 9  | 13,400  | 3 6    | 12,400  | 3 5    | 11,300  | 3 2    | 10,100  | 3 0   |
| 445    | 4200             | 1 41             | 16,000   | 4 9  |   |  | 15,100  | 4 6  | 14,400  | 4 3    | 13,600  | 4 1    | 12,500  | 3 9    | 11,500  | 3 7   |
| 466    | 4400             | 1 54             | 16,900   | 5 8  |   |  | 15,900  | 5 2  | 15,300  | 5 0    | 14,700  | 4 8    | 13,700  | 4 6    | 12,600  | 4 4   |
| 488    | 4600             | 1 69             | 17,600   | 6 4  |   |  | 16,800  | 6 1  |   | 5 9    | 15,700  | 5 7    | 14,800  | 5 4    | 14,000  | 5 2   |
| 509    | 4800             | 1 84             | 18,400   | 7 3  |   |  | 17,600  | 6 9  | 17,200  | 6 7    | 16,600  | 6 5    | 15,900  | 6 2    | 15,100  | 6 0   |
| 530    | 5000             | 2 00             | 19,200   | 8 3  |   |  | 18,400  | 7 7  | 18,100  | 7 7    | 17,500  | 7 5    | 16,900  | 7 2    | 16,100  | 6 9   |
| 556    | 5250             | 2 20             | 20,200   | 9 6  |   |  | 19,200  | 9 0  | 19,200  | 9 0    | 18,700  | 8 7    | 18,200  | 8 5    | 17,500  | 8 2   |
| 581    | 5500             | 2 42             | 21,200   | 11 0   |   |  |   |  | 20,200  | 10 5   | 19,800  | 10 0   | 19,300  | 10 0   | 18,700  | 9 7   |
| 610    | 5750             | 2 54             | 22,200   | 12 0   |   |  |   |  |   |        | 20,800  | 11 0   | 20,400  | 11 0   | 19,800  | 10 5  |
| 636    | 6000             | 2 87             | 23,200   | 14 5   |   |  |   |  |   |        | 21,800  | 13 5   | 21,600  | 13 0   | 21,200  | 13    |
| 662    | 6250             | 3 12             | 24,200   | 16 5   |   |  |   |  |   |        |   |        | 22,600  | 15 0   | 22,000  | 15    |
| 690    | 6500             | 3 38             | 25,200   | 18 5   |   |  |   |  |   |        |   |        | 23,800  | 17 5   | 23,400  | 17    |
| 715    | 6750             | 3 63             | 26,200   | 21   |   |  |   |  |   |        |   |        |   |        | 24,400  | 19    |
| 742    | 7000             | 3 91             | 27,000   | 23   |   |  |   |  |   |        |   |        |   |        | 25,600  | 21    |
| 795    | 7500             | 4 50             | 29,000   | 28   |   |  |   |  |   |        |   |        |   |        |   |       |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure<br>1" Water<br>.578 ozs. per<br>sq. inch                     | Static Pressure<br>1 1/4" Water<br>.723 ozs. per<br>sq. inch | Static Pressure<br>1 1/2" Water<br>.878 ozs. per<br>sq. inch                | Static Pressure<br>1 3/4" Water<br>1.01 ozs. per<br>sq. inch | Static Pressure<br>2" Water<br>1.16 ozs. per<br>sq. inch                    | Static Pressure<br>2 1/4" Water<br>1.30 ozs. per<br>sq. inch | Static Pressure<br>2 1/2" Water<br>1.45 ozs. per<br>sq. inch                |        |   |        |   |        |   |       |
| 382    | 3600             | 1 03             | 5,540  | 1 6  |   |  |   |  |   |        |   |        |   |        |   |       |
| 403    | 3800             | 1 15             | 7,200  | 2 1  |   |  |   |  |   |        |   |        |   |        |   |       |
| 425    | 4000             | 1 28             | 8,800  | 2 8  | 6,040   | 2 4  |   |  |   |        |   |        |   |        |   |       |
| 445    | 4200             | 1 41             | 10,200   | 3 4  | 7,700   | 2 8  |   |  |   |        |   |        |   |        |   |       |
| 466    | 4400             | 1 54             | 11,600   | 4 1  | 9,180   | 3 5  | 6,680   | 2 8  |   |        |   |        |   |        |   |       |
| 488    | 4600             | 1 69             | 13,000   | 4 8  | 10,700  | 4 4  | 8,380   | 3 7  |   |        |   |        |   |        |   |       |
| 509    | 4800             | 1 84             | 14,100   | 5 6  | 12,200  | 5 2  | 10,000  | 4 6  | 7,640   | 3 8    |   |        |   |        |   |       |
| 530    | 5000             | 2 00             | 15,300   | 6 7  | 13,500  | 6 1  | 11,500  | 5 6  | 9,320   | 4 8    |   |        |   |        |   |       |
| 556    | 5250             | 2 20             | 16,700   | 7 9  | 15,100  | 7 4  | 13,300  | 6 8  | 11,300  | 6 1    | 9,200   | 5 3    |   |        |   |       |
| 581    | 5500             | 2 42             | 18,000   | 9 3  | 16,700  | 8 9  | 14,900  | 8 3  | 13,100  | 7 6    | 11,200  | 6 8    | 9,240   | 6 0    |   |       |
| 610    | 5750             | 2 54             | 19,100   | 10 5   | 17,800  | 9 9  | 16,500  | 9 5  | 14,900  | 8 9    | 13,100  | 8 3    | 10,500  | 7 3    |   |       |
| 636    | 6000             | 2 87             | 20,600   | 12 5   | 19,400  | 12   | 18,000  | 11 5   | 16,500  | 11 0   | 14,900  | 10 0   | 13,200  | 9 3    | 11,300  | 8 4   |
| 662    | 6250             | 3 12             | 21,800   | 15 0   | 20,800  | 14   | 19,400  | 13 0   | 18,100  | 12 5   | 16,800  | 12 0   | 15,000  | 11 0   | 13,300  | 10 5  |
| 690    | 6500             | 3 38             | 24,000   | 16 5   | 22,000  | 16   | 20,800  | 15 0   | 19,700  | 14 5   | 18,300  | 13 5   | 16,800  | 13 0   | 15,200  | 12 5  |
| 715    | 6750             | 3 63             | 24,200   | 19   | 23,200  | 18   | 22,200  | 17 0   | 21,000  | 16 5   | 19,800  | 16     | 18,400  | 15 0   | 17,000  | 14 5  |
| 742    | 7000             | 3 91             | 25,200   | 21   | 24,400  | 20   | 23,400  | 19 5   | 22,400  | 19     | 21,200  | 18     | 20,000  | 17 5   | 18,600  | 16 5  |
| 795    | 7500             | 4 50             | 27,400   | 27   | 26,800  | 26   | 26,000  | 25   | 25,000  | 24     | 24,200  | 23     | 23,000  | 23     | 21,800  | 22    |
| 848    | 8000             | 5 11             |  | 29,000   | 32  | 28,400   | 31  | 27,600   | 30  | 26,800 | 29  | 25,800 | 28  | 24,800 | 28  |       |
| 900    | 8500             | 5 76             |  | 31,200   | 38  | 30,600   | 38  | 29,800   | 37  | 29,200 | 36  | 28,400 | 35  | 27,600 | 34  |       |
| 954    | 9000             | 6 46             |  | 33,200   | 46  | 32,800   | 45  | 32,200   | 44  | 31,600 | 43  | 31,000 | 43  | 30,200 | 41  |       |
| 1010   | 9500             | 7 20             |  |  | 35,000  | 54   | 34,400  | 54   | 33,800  | 52     | 33,200  | 52     | 32,800  | 50     |   |       |
| 1060   | 10000            | 7 98             |  |  | 37,200  | 64   | 36,600  | 62   | 36,200  | 62     | 35,600  | 60     | 35,000  | 60     |   |       |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure<br>2 1/2" Water<br>1.59 ozs. per<br>sq. inch                 | Static Pressure<br>3" Water<br>1.73 ozs. per<br>sq. inch     | Static Pressure<br>3 1/2" Water<br>2.02 ozs. per<br>sq. inch                | Static Pressure<br>4" Water<br>2.31 ozs. per<br>sq. inch     | Static Pressure<br>5" Water<br>2.89 ozs. per<br>sq. inch                    | Static Pressure<br>6" Water<br>3.47 ozs. per<br>sq. inch     | Static Pressure<br>7" Water<br>4.05 ozs. per<br>sq. inch                    |        |   |        |   |        |   |       |
| 662    | 6250             | 3 12             | 11,500   | 9 4  |   |  |   |  |   |        |   |        |   |        |   |       |
| 690    | 6500             | 3 38             | 13,500   | 11 5   | 11,800  | 10 5   |   |  |   |        |   |        |   |        |   |       |
| 715    | 6750             | 3 63             | 15,300   | 13 5   | 13,800  | 12 5   |   |  |   |        |   |        |   |        |   |       |
| 742    | 7000             | 3 91             | 17,200   | 16   | 15,800  | 15   | 12,000  | 13   |   |        |   |        |   |        |   |       |
| 795    | 7500             | 4 50             | 20,600   | 21   | 19,300  | 20   | 16,500  | 18   | 13,700  | 16     |   |        |   |        |   |       |
| 848    | 8000             | 5 11             | 23,800   | 27   | 22,600  | 26   | 20,200  | 24   | 17,500  | 22     | 12,000  | 17     |   |        |   |       |
| 900    | 8500             | 5 76             | 26,800   | 33   | 25,600  | 32   | 23,400  | 31   | 21,000  | 29     | 16,100  | 24     |   |        |   |       |
| 954    | 9000             | 6 46             | 29,400   | 41   | 28,400  | 40   | 26,000  | 38   | 24,400  | 36     | 20,000  | 31     | 15,200  | 26     |   |       |
| 1010   | 9500             | 7 20             | 32,000   | 49   | 31,200  | 48   | 29,600  | 46   | 27,600  | 44     | 23,600  | 40     | 19,200  | 35     | 14,500  | 29    |
| 1060   | 10000            | 7 98             | 34,600   | 58   | 33,800  | 58   | 32,200  | 56   | 30,600  | 54     | 27,000  | 49     | 23,000  | 44     | 18,600  | 38    |

| Double Inlet   |                  | 70" Steel Plate Fan—Design 1 |  |  |  |  |   |  |  |  |   | Double Width                                     |  |  |
|--|------------------|------------------------------|--|--|--|--|---|--|--|--|---|--|--|--|
| When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances |                  |                              |  |  |  |  |   |  |  |  |   |  |  |  |
| R.P.M.   | Tip Speed F.P.M. | S.N.D. in inches             | Volume C.F.M.                                    | H. P.  | Volume C.F.M.                                    | H. P.  | Volume C.F.M.                                   | H. P.  | Volume C.F.M.                                    | H. P.  | Volume C.F.M.                                   | H. P.  | Volume C.F.M.                                    | H. P.  |
|  |                  |                              | Static Pressure 1" Water .0722 oza. per sq. inch |  | Static Pressure 1½" Water .145 oza. per sq. inch |  | Static Pressure 2" Water .217 oza. per sq. inch |  | Static Pressure 2½" Water .289 oza. per sq. inch |  | Static Pressure 3" Water .361 oza. per sq. inch |  | Static Pressure 3½" Water .434 oza. per sq. inch |  |
| 127  | 1400             | 0 157                        | 3,810  | 0 15   |  |  |   |  |  |  |   |  |  |  |
| 115  | 1600             | 0 205                        | 5,490  | 0 26   |  |  |   |  |  |  |   |  |  |  |
| 164  | 1800             | 0 259                        | 7,200  | 0 40   | 3,560  | 0 25   |   |  |  |  |   |  |  |  |
| 182  | 2000             | 0 320                        | 8,550  | 0 58   | 5,640  | 0 42   |   |  |  |  |   |  |  |  |
| 200  | 2200             | 0 387                        | 9,860  | 0 81   | 7,480  | 0 67   | 4,340   | 0 46   |  |  |   |  |  |  |
| 218  | 2400             | 0 460                        | 11,100   | 1 11   | 9,060  | 0 92   | 6,420   | 0 71   |  |  |   |  |  |  |
| 236  | 2600             | 0 540                        | 12,400   | 1 4  | 10,500   | 1 2  | 8,280   | 1 05   | 5,640  | 0 9  |   |  |  |  |
| 251  | 2800             | 0 626                        | 13,200   | 1 8  | 12,000   | 1 6  | 10,000  | 1 4  | 7,680  | 1 2  |   |  |  |  |
| 272  | 3000             | 0 718                        | 14,300   | 2 2  | 13,300   | 2 0  | 11,600  | 1 8  | 9,520  | 1 6  | 7,300   | 1 35   |  |  |
| 291  | 3200             | 0 816                        | 15,300   | 2 7  | 14,500   | 2 5  | 13,000  | 2 3  | 11,300   | 2 1  | 9,240   | 1 85   | 7,000  | 1 5  |
| 309  | 3400             | 0 922                        | 16,400   | 3 3  | 15,600   | 3 1  | 14,500  | 2 8  | 12,900   | 2 6  | 11,100  | 2 1  | 8,900  | 2 0  |
| 327  | 3600             | 1 03                         | 17,500   | 3 9  | 16,600   | 3 7  | 15,700  | 3 5  | 14,400   | 3 2  | 12,800  | 3 0  | 10,900   | 2 7  |
| 346  | 3800             | 1 15                         | 18,500   | 4 6  | 17,900   | 4 4  | 17,000  | 4 2  | 15,700   | 3 9  | 14,100  | 3 7  | 12,700   | 3 4  |
| 364  | 4000             | 1 28                         | 19,600   | 5 1  |  |  | 18,200  | 5 0  | 17,200   | 4 7  | 15,900  | 4 4  | 14,500   | 4 2  |
| 382  | 4200             | 1 41                         | 20,600   | 6 3  |  |  | 19,400  | 5 8  | 18,500   | 5 6  | 17,100  | 5 3  | 16,100   | 5 0  |
| 400  | 4400             | 1 54                         | 21,600   | 7 2  |  |  | 20,400  | 6 7  | 19,700   | 6 5  | 18,800  | 6 2  | 17,600   | 5 9  |
| 418  | 4600             | 1 69                         | 22,600   | 8 2  |  |  | 21,600  | 7 8  | 21,000   | 7 7  | 20,200  | 7 3  | 19,000   | 6 9  |
| 436  | 4800             | 1 84                         | 23,600   | 9 1  |  |  | 22,600  | 8 9  | 22,000   | 8 6  | 21,200  | 8 4  | 20,400   | 8 0  |
| 455  | 5000             | 2 00                         | 24,600   | 10 5   |  |  |   |  | 23,200   | 10 0   | 22,600  | 9 6  | 21,800   | 9 2  |
| 477  | 5250             | 2 20                         | 26,000   | 12 5   |  |  |   |  | 24,600   | 11 5   | 24,000  | 11 0   | 23,400   | 11 0   |
| 500  | 5500             | 2 42                         | 27,200   | 14 0   |  |  |   |  | 26,000   | 13 5   | 25,400  | 13 0   | 24,800   | 13 0   |
| 523  | 5750             | 2 54                         | 28,400   | 15 5   |  |  |   |  |  |  | 26,600  | 14 5   | 26,200   | 14 0   |
| 545  | 6000             | 2 87                         | 29,800   | 18 5   |  |  |   |  |  |  | 28,000  | 17   | 27,800   | 17 0   |
| 569  | 6250             | 3 12                         | 31,000   | 21   |  |  |   |  |  |  | 29,200  | 19 5   | 29,200   | 19 5   |
| 590  | 6500             | 3 38                         | 32,200   | 24   |  |  |   |  |  |  |   |  | 30,600   | 22   |
| 614  | 6750             | 3 63                         | 33,600   | 27   |  |  |   |  |  |  |   |  | 31,400   | 24   |
| 636  | 7000             | 3 91                         | 34,800   | 29   |  |  |   |  |  |  |   |  | 32,800   | 27   |
| 682  | 7500             | 4 50                         | 37,200   | 36   |  |  |   |  |  |  |   |  |  |  |
| R.P.M.   | Tip Speed F.P.M. | S.N.D. in inches             | Static Pressure 1" Water .0722 oza. per sq. inch | Static Pressure 1½" Water .145 oza. per sq. inch | Static Pressure 2" Water .217 oza. per sq. inch  | Static Pressure 2½" Water .289 oza. per sq. inch | Static Pressure 3" Water .361 oza. per sq. inch | Static Pressure 3½" Water .434 oza. per sq. inch | Static Pressure 4" Water .506 oza. per sq. inch  | Static Pressure 4½" Water .578 oza. per sq. inch | Static Pressure 5" Water .649 oza. per sq. inch | Static Pressure 5½" Water .720 oza. per sq. inch | Static Pressure 6" Water .791 oza. per sq. inch  | Static Pressure 6½" Water .862 oza. per sq. inch |
| 327  | 3600             | 1 03                         | 7,120  | 2 0  |  |  |   |  |  |  |   |  |  |  |
| 346  | 3800             | 1 15                         | 9,220  | 2 7  |  |  |   |  |  |  |   |  |  |  |
| 364  | 4000             | 1 28                         | 11,300   | 3 5  | 7,760  | 3 0  |   |  |  |  |   |  |  |  |
| 382  | 4200             | 1 41                         | 13,100   | 4 4  | 9,880  | 3 6  |   |  |  |  |   |  |  |  |
| 400  | 4400             | 1 54                         | 14,800   | 5 3  | 11,800   | 4 5  | 8,580   | 3 7  |  |  |   |  |  |  |
| 418  | 4600             | 1 69                         | 16,600   | 6 2  | 13,700   | 5 6  | 10,800  | 4 7  |  |  |   |  |  |  |
| 436  | 4800             | 1 84                         | 18,100   | 7 4  | 15,600   | 6 7  | 12,900  | 5 9  | 9,800  | 4 8  |   |  |  |  |
| 455  | 5000             | 2 00                         | 19,700   | 8 6  | 17,400   | 7 9  | 14,800  | 7 1  | 12,000   | 6 2  |   |  |  |  |
| 477  | 5250             | 2 20                         | 21,400   | 10 0   | 19,400   | 9 5  | 17,100  | 8 8  | 14,400   | 7 9  | 11,800  | 6 8  |  |  |
| 500  | 5500             | 2 42                         | 23,200   | 12 0   | 21,400   | 11 5   | 19,200  | 10 5   | 16,800   | 9 7  | 14,400  | 8 8  | 11,900   | 7 8  |
| 523  | 5750             | 2 54                         | 24,000   | 13 5   | 22,800   | 13   | 21,200  | 12 0   | 19,200   | 11 5   | 16,900  | 10 5   | 13,500   | 9 3  |
| 545  | 6000             | 2 87                         | 26,400   | 16   | 25,000   | 15   | 23,200  | 14 5   | 21,200   | 14   | 19,200  | 13 0   | 18,900   | 12 0   |
| 569  | 6250             | 3 12                         | 28,000   | 19   | 26,800   | 18   | 25,000  | 17 0   | 23,200   | 16   | 21,600  | 15 0   | 19,300   | 11 5   |
| 590  | 6500             | 3 38                         | 29,600   | 21   | 28,400   | 20   | 26,600  | 19 5   | 25,200   | 19   | 23,600  | 17 5   | 21,600   | 17 0   |
| 614  | 6750             | 3 63                         | 31,000   | 24   | 29,800   | 23   | 28,400  | 22   | 27,000   | 21   | 25,400  | 21   | 23,600   | 19 5   |
| 636  | 7000             | 3 91                         | 32,400   | 27   | 31,400   | 26   | 30,200  | 25   | 28,800   | 24   | 27,400  | 23   | 25,800   | 22   |
| 682  | 7500             | 4 50                         | 35,200   | 35   | 34,400   | 33   | 33,200  | 32   | 32,200   | 31   | 31,000  | 30   | 29,600   | 29   |
| 726  | 8000             | 5 11                         |  |  | 37,200   | 41   | 36,400  | 40   | 35,400   | 39   | 34,400  | 37   | 33,000   | 36   |
| 773  | 8500             | 5 76                         |  |  | 40,000   | 49   | 39,400  | 48   | 38,200   | 47   | 37,400  | 46   | 36,400   | 45   |
| 819  | 9000             | 6 46                         |  |  | 42,800   | 60   | 42,000  | 58   | 41,400   | 58   | 40,600  | 56   | 39,800   | 54   |
| 864  | 9500             | 7 20                         |  |  |  |  | 44,800  | 70   | 44,200   | 68   | 43,400  | 66   | 42,800   | 66   |
| 910  | 10000            | 7 98                         |  |  |  |  | 47,800  | 82   | 47,000   | 80   | 46,400  | 78   | 45,600   | 78   |
| R.P.M.   | Tip Speed F.P.M. | S.N.D. in inches             | Static Pressure 2½" Water 1.59 oza. per sq. inch | Static Pressure 3" Water 1.73 oza. per sq. inch  | Static Pressure 3½" Water 2.03 oza. per sq. inch | Static Pressure 4" Water 2.31 oza. per sq. inch  | Static Pressure 5" Water 2.89 oza. per sq. inch | Static Pressure 6" Water 3.47 oza. per sq. inch  | Static Pressure 7" Water 4.05 oza. per sq. inch  | Static Pressure 8" Water 4.63 oza. per sq. inch  | Static Pressure 9" Water 5.20 oza. per sq. inch | Static Pressure 10" Water 5.78 oza. per sq. inch | Static Pressure 11" Water 6.35 oza. per sq. inch | Static Pressure 12" Water 6.93 oza. per sq. inch |
| 500  | 6250             | 3 12                         | 14,800   | 12 0   |  |  |   |  |  |  |   |  |  |  |
| 590  | 6500             | 3 38                         | 17,100   | 14 5   | 15,200   | 13   |   |  |  |  |   |  |  |  |
| 614  | 6750             | 3 63                         | 19,700   | 17   | 17,700   | 16   |   |  |  |  |   |  |  |  |
| 636  | 7000             | 3 91                         | 22,000   | 20   | 20,400   | 19   | 16,200  | 16 5   |  |  |   |  |  |  |
| 682  | 7500             | 4 50                         | 26,600   | 27   | 24,800   | 26   | 21,200  | 23   | 17,500   | 21   |   |  |  |  |
| 726  | 8000             | 5 11                         | 30,600   | 35   | 29,000   | 33   | 26,000  | 31   | 22,600   | 28   | 15,400  | 22   |  |  |
| 773  | 8500             | 5 76                         | 34,400   | 43   | 33,000   | 41   | 30,200  | 39   | 27,000   | 37   | 20,600  | 31   |  |  |
| 819  | 9000             | 6 46                         | 37,800   | 52   | 36,400   | 50   | 34,200  | 49   | 31,400   | 46   | 25,600  | 40   | 19,500   | 34   |
| 864  | 9500             | 7 20                         | 41,000   | 64   | 40,000   | 62   | 38,000  | 60   | 35,400   | 58   | 30,200  | 52   | 24,600   | 45   |
| 910  | 10000            | 7 98                         | 44,200   | 76   | 43,400   | 74   | 41,400  | 70   | 39,400   | 68   | 34,800  | 64   | 29,400   | 56   |
|  |                  |                              |  |  |  |  |   |  |  |  |   |  |  | 37   |
|  |                  |                              |  |  |  |  |   |  |  |  |   |  |  | 49   |

Double Inlet

## 80" Steel Plate Fan—Design 1

Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. |
|--------|------------------|------------------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|
|        |                  |                  | Static Pressure 1/2" Water .0722 ozs. per sq. inch  |       | Static Pressure 1" Water .145 ozs. per sq. inch     |       | Static Pressure 1 1/2" Water .217 ozs. per sq. inch |       | Static Pressure 2" Water .289 ozs. per sq. inch     |       | Static Pressure 2 1/2" Water .361 ozs. per sq. inch |       | Static Pressure 3" Water .434 ozs. per sq. inch     |       | Static Pressure 3 1/2" Water .506 ozs. per sq. inch |       |
| 111    | 1100             | 0 157            | 5,200   | 0 20  |   |       |   |       |   |       |   |       |   |       |   |       |
| 127    | 1600             | 0 205            | 7,640   | 0 36  |   |       |   |       |   |       |   |       |   |       |   |       |
| 143    | 1800             | 0 259            | 9,740   | 0 55  | 4,840   | 0 35  |   |       |   |       |   |       |   |       |   |       |
| 159    | 2000             | 0 320            | 11,500  | 0 79  | 7,640   | 0 56  |   |       |   |       |   |       |   |       |   |       |
| 175    | 2200             | 0 387            | 13,400  | 1 10  | 10,100  | 0 99  | 5,860   | 0 63  |   |       |   |       |   |       |   |       |
| 191    | 2400             | 0 460            | 14,900  | 1 45  | 12,300  | 1 25  | 8,700   | 1 0   |   |       |   |       |   |       |   |       |
| 206    | 2600             | 0 540            | 16,300  | 1 9   | 13,300  | 1 65  | 11,200  | 1 4   | 7,640   | 1 2   |   |       |   |       |   |       |
| 222    | 2800             | 0 626            | 17,900  | 2 4   | 16,200  | 2 2   | 13,500  | 1 9   | 10,400  | 1 6   |   |       |   |       |   |       |
| 238    | 3000             | 0 718            | 19,400  | 3 0   | 17,900  | 2 7   | 15,700  | 2 5   | 12,900  | 2 2   | 9,880   | 1 85  |   |       |   |       |
| 255    | 3200             | 0 816            | 20,800  | 3 7   | 19,600  | 3 4   | 17,600  | 3 1   | 15,300  | 2 8   | 12,500  | 2 5   | 9,500   | 2 1   |   |       |
| 271    | 3400             | 0 922            | 22,200  | 4 1   | 21,200  | 4 2   | 19,500  | 3 9   | 17,500  | 3 6   | 15,000  | 3 2   | 12,100  | 2 8   | 9,420   | 2 4   |
| 286    | 3600             | 1 03             | 23,600  | 5 3   | 22,600  | 5     | 21,200  | 4 7   | 19,500  | 4 4   | 17,300  | 4 1   | 14,700  | 3 6   | 12,300  | 3 3   |
| 302    | 3800             | 1 15             | 25,000  | 6 3   | 24,200  | 6     | 23,000  | 5 6   | 21,400  | 5 2   | 19,400  | 5 0   | 17,200  | 4 6   | 14,900  | 4 2   |
| 318    | 4000             | 1 28             | 26,400  | 7 3   |   |       | 24,600  | 6 7   | 23,200  | 6 3   | 21,600  | 6 0   | 19,700  | 5 6   | 17,500  | 5 2   |
| 334    | 4200             | 1 41             | 28,000  | 8 5   |   |       | 26,200  | 7 9   | 25,000  | 7 5   | 23,600  | 7 2   | 21,800  | 6 8   | 19,900  | 6 4   |
| 350    | 4400             | 1 54             | 29,400  | 9 7   |   |       | 27,600  | 9 1   | 26,600  | 8 8   | 25,400  | 8 4   | 23,800  | 8 0   | 22,000  | 7 6   |
| 366    | 4600             | 1 69             | 30,600  | 11 0  |   |       | 29,200  | 10 5  | 28,400  | 10 5  | 27,400  | 9 9   | 25,600  | 9 4   | 24,200  | 9 0   |
| 382    | 4800             | 1 84             | 32,000  | 13 0  |   |       | 30,600  | 12    | 30,000  | 11 5  | 28,800  | 11 5  | 27,600  | 11 0  | 26,200  | 10 5  |
| 398    | 5000             | 2 00             | 33,400  | 14 5  |   |       |   |       | 31,400  | 13 5  | 30,400  | 13    | 29,400  | 12 5  | 28,000  | 12 0  |
| 417    | 5200             | 2 20             | 35,000  | 17 0  |   |       |   |       | 33,400  | 15 5  | 32,400  | 15    | 31,600  | 15 0  | 30,400  | 14 0  |
| 437    | 5500             | 2 42             | 36,800  | 19 5  |   |       |   |       | 35,200  | 18    | 34,600  | 18    | 33,600  | 17 5  | 32,600  | 17 0  |
| 457    | 5750             | 2 54             | 38,400  | 21    |   |       |   |       |   |       | 36,000  | 19    | 35,400  | 19    | 34,400  | 18 5  |
| 477    | 6000             | 2 87             | 40,400  | 25    |   |       |   |       |   |       | 37,800  | 23    | 37,600  | 23    | 36,800  | 22    |
| 497    | 6250             | 3 12             | 41,800  | 28    |   |       |   |       |   |       |   | 23    | 39,400  | 26    | 38,400  | 26    |
| 516    | 6500             | 3 38             | 43,600  | 32    |   |       |   |       |   |       |   |       | 40,600  | 30    | 40,600  | 29    |
| 536    | 6750             | 3 63             | 45,400  | 36    |   |       |   |       |   |       |   |       | 42,600  | 33    | 42,600  | 33    |
| 556    | 7000             | 3 91             | 47,000  | 40    |   |       |   |       |   |       |   |       | 44,400  | 37    | 44,400  | 37    |
| 596    | 7500             | 4 50             | 50,400  | 50    |   |       |   |       |   |       |   |       |   |       |   |       |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 ozs. per sq. inch     |       | Static Pressure 1 1/2" Water .723 ozs. per sq. inch |       | Static Pressure 2" Water .878 ozs. per sq. inch     |       | Static Pressure 2 1/2" Water 1.01 ozs. per sq. inch |       | Static Pressure 3" Water 1.16 ozs. per sq. inch     |       | Static Pressure 3 1/2" Water 1.30 ozs. per sq. inch |       | Static Pressure 4" Water 1.45 ozs. per sq. inch     |       |
| 286    | 3600             | 1 03             | 9,620   | 2 8   |   |       |   |       |   |       |   |       |   |       |   |       |
| 302    | 3800             | 1 15             | 12,500  | 3 7   |   |       |   |       |   |       |   |       |   |       |   |       |
| 318    | 4000             | 1 28             | 15,300  | 4 8   | 10,500  | 4 1   |   |       |   |       |   |       |   |       |   |       |
| 334    | 4200             | 1 41             | 17,700  | 5 9   | 13,400  | 4 9   |   |       |   |       |   |       |   |       |   |       |
| 350    | 4400             | 1 54             | 20,200  | 7 1   | 16,000  | 6 1   | 11,600  | 5 0   |   |       |   |       |   |       |   |       |
| 366    | 4600             | 1 69             | 22,600  | 8 4   | 18,600  | 7 0   | 14,600  | 6 4   |   |       |   |       |   |       |   |       |
| 382    | 4800             | 1 84             | 24,600  | 10 0  | 21,200  | 9 0   | 17,400  | 8 0   | 13,300  | 6 5   |   |       |   |       |   |       |
| 398    | 5000             | 2 00             | 26,600  | 11 5  | 23,600  | 10 5  | 20,000  | 9 7   | 16,200  | 8 4   |   |       |   |       |   |       |
| 417    | 5200             | 2 20             | 29,000  | 13 5  | 26,200  | 13 0  | 23,200  | 12 0  | 19,600  | 10 5  | 16,000  | 9 3   |   |       |   |       |
| 437    | 5500             | 2 42             | 31,400  | 16    | 29,000  | 15 5  | 26,000  | 14 5  | 22,800  | 13 0  | 19,500  | 12 0  | 16,100  | 10 5  |   |       |
| 457    | 5750             | 2 54             | 33,200  | 18    | 31,000  | 17    | 28,600  | 16 5  | 26,000  | 15 5  | 22,800  | 14 5  | 18,300  | 12 5  |   |       |
| 477    | 6000             | 2 87             | 35,800  | 22    | 33,800  | 21    | 31,400  | 20    | 28,600  | 18 5  | 25,800  | 17 5  | 22,800  | 16 0  | 19,700  | 11 5  |
| 497    | 6250             | 3 12             | 38,000  | 26    | 36,000  | 24    | 33,800  | 23    | 31,400  | 22    | 29,200  | 21    | 26,000  | 19 5  | 23,200  | 18    |
| 516    | 6500             | 3 38             | 40,000  | 29    | 38,400  | 28    | 36,000  | 26    | 34,200  | 25    | 31,800  | 24    | 29,200  | 23    | 26,400  | 21    |
| 536    | 6750             | 3 63             | 42,000  | 33    | 40,400  | 31    | 38,600  | 30    | 36,600  | 29    | 34,400  | 28    | 32,000  | 26    | 29,600  | 25    |
| 556    | 7000             | 3 91             | 44,000  | 37    | 42,600  | 35    | 40,800  | 34    | 39,000  | 33    | 37,000  | 32    | 34,800  | 30    | 32,400  | 29    |
| 596    | 7500             | 4 50             | 47,600  | 46    | 46,600  | 45    | 45,000  | 43    | 43,600  | 42    | 42,000  | 41    | 40,000  | 39    | 38,000  | 38    |
| 636    | 8000             | 5 11             |   |       | 50,400  | 56    | 49,200  | 54    | 47,800  | 52    | 46,400  | 50    | 44,800  | 49    | 43,200  | 48    |
| 676    | 8500             | 5 76             |   |       | 54,200  | 66    | 53,200  | 66    | 51,800  | 64    | 50,800  | 62    | 49,400  | 60    | 47,800  | 60    |
| 716    | 9000             | 6 46             |   |       | 57,800  | 80    | 56,800  | 78    | 56,000  | 78    | 54,800  | 76    | 53,800  | 74    | 52,400  | 72    |
| 756    | 9500             | 7 20             |   |       |   |       | 60,800  | 94    | 59,800  | 92    | 58,800  | 90    | 57,800  | 88    | 56,800  | 88    |
| 796    | 10000            | 7 98             |   |       |   |       | 64,800  | 110   | 63,600  | 110   | 62,800  | 110   | 61,800  | 105   | 61,000  | 105   |
| L.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 2 1/2" Water 1.59 ozs. per sq. inch |       | Static Pressure 3" Water 1.73 ozs. per sq. inch     |       | Static Pressure 3 1/2" Water 2.02 ozs. per sq. inch |       | Static Pressure 4" Water 2.31 ozs. per sq. inch     |       | Static Pressure 5" Water 2.89 ozs. per sq. inch     |       | Static Pressure 6" Water 3.47 ozs. per sq. inch     |       | Static Pressure 7" Water 4.05 ozs. per sq. inch     |       |
| 497    | 6250             | 3 12             | 20,200  | 16 5  |   |       |   |       |   |       |   |       |   |       |   |       |
| 516    | 6500             | 3 38             | 23,600  | 20 0  | 20,600  | 18    |   |       |   |       |   |       |   |       |   |       |
| 536    | 6750             | 3 63             | 26,600  | 23 0  | 24,000  | 22    |   |       |   |       |   |       |   |       |   |       |
| 556    | 7000             | 3 91             | 30,000  | 27 2  | 27,600  | 26    | 22,000  | 22    |   |       |   |       |   |       |   |       |
| 596    | 7500             | 5 50             | 35,800  | 37    | 33,600  | 35    | 28,600  | 32    | 23,800  | 28    |   |       |   |       |   |       |
| 636    | 8000             | 5 11             | 41,200  | 47    | 39,400  | 45    | 35,000  | 42    | 30,400  | 38    | 20,800  | 30    |   |       |   |       |
| 676    | 8500             | 5 76             | 46,400  | 58    | 44,600  | 56    | 40,800  | 54    | 36,600  | 50    | 28,000  | 42    |   |       |   |       |
| 716    | 9000             | 6 46             | 51,200  | 70    | 49,400  | 68    | 46,200  | 66    | 42,600  | 62    | 34,800  | 54    | 26,400  | 46    |   |       |
| 756    | 9500             | 7 20             | 55,600  | 86    | 54,200  | 84    | 51,400  | 80    | 48,000  | 76    | 41,000  | 70    | 33,400  | 60    | 25,200  | 50    |
| 796    | 10000            | 7 98             | 60,000  | 100   | 58,600  | 100   | 56,000  | 96    | 53,400  | 92    | 47,000  | 86    | 40,000  | 76    | 32,400  | 66    |



Double Inlet

## 100" Steel Plate Fan—Design 1

Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances.

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M. H. P. Static Pressure 1/2" Water .0722 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 3/4" Water .145 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1" Water .217 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1 1/4" Water .289 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1 1/2" Water .361 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1 3/4" Water .434 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 2" Water .506 ozs. per sq. inch |
|--------|------------------|------------------|--|---|---|---|---|---|---|
| 89     | 1400             | 0 157            | 7,840 0 31   |   |   |   |   |   |   |
| 102    | 1600             | 0 205            | 11,500 0 54  |   |   |   |   |   |   |
| 114    | 1800             | 0 259            | 14,700 0 83  | 7,280 0 52  |   |   |   |   |   |
| 127    | 2000             | 0 320            | 17,500 1 2   | 11,500 0 85   |   |   |   |   |   |
| 140    | 2200             | 0 387            | 20,200 1 7   | 15,300 1 35   | 8,840 0 95  |   |   |   |   |
| 153    | 2400             | 0 460            | 22,400 2 2   | 18,500 2 0  | 13,100 1 5  |   |   |   |   |
| 165    | 2600             | 0 510            | 24,800 2 9   | 21,600 2 5  | 17,900 2 1  | 11,520 1 85   |   |   |   |
| 178    | 2800             | 0 626            | 27,000 3 6   | 24,400 3 3  | 20,400 2 9  | 15,700 2 4  |   |   |   |
| 191    | 3000             | 0 718            | 29,200 4 5   | 27,000 4 1  | 23,600 3 7  | 19,500 3 3  | 14,900 2 8  |   |   |
| 204    | 3200             | 0 816            | 31,400 5 5   | 29,600 5 1  | 26,600 4 7  | 23,000 4 3  | 18,900 3 8  | 14,300 3 1  |   |
| 217    | 3400             | 0 922            | 33,600 6 6   | 32,000 6 3  | 29,600 5 8  | 26,400 5 4  | 22,600 4 8  | 18,200 4 2  | 14,200 3 6  |
| 229    | 3600             | 1 03             | 35,600 8 1   | 34,000 7 5  | 32,000 7 0  | 29,400 6 6  | 26,200 6 1  | 22,200 5 5  | 18,600 4 9  |
| 242    | 3800             | 1 15             | 37,800 9 5   | 36,600 9 0  | 34,800 8 5  | 32,200 7 9  | 29,400 7 5  | 26,000 6 9  | 22,600 6 3  |
| 254    | 4000             | 1 28             | 39,800 11 0  |   | 37,200 10   | 35,000 9 5  | 32,600 9 0  | 29,600 8 5  | 26,400 7 9  |
| 268    | 4200             | 1 41             | 42,000 13 0  |   | 39,600 12   | 37,600 11 5   | 35,600 11 0   | 32,800 10 0   | 30,000 9 6  |
| 280    | 4400             | 1 54             | 44,200 14 5  |   | 41,800 14   | 40,200 13 0   | 38,400 12 5   | 35,800 12 0   | 33,000 11 5   |
| 293    | 4600             | 1 69             | 46,200 16 5  |   | 44,200 16   | 42,800 15 5   | 41,200 15 0   | 38,800 14 0   | 36,600 13 5   |
| 306    | 4800             | 1 84             | 48,200 19  |   | 46,200 18   | 45,000 17 5   | 43,400 17 0   | 41,600 16 5   | 39,400 15 5   |
| 318    | 5000             | 2 00             | 50,400 22  |   |   | 47,200 20   | 46,000 19 5   | 44,400 19   | 42,200 18   |
| 334    | 5250             | 2 20             | 52,800 25  |   |   | 50,200 21   | 48,800 23   | 47,600 22   | 45,600 21   |
| 350    | 5500             | 2 42             | 55,600 29  |   |   | 53,000 27   | 52,000 27   | 50,600 26   | 49,000 25   |
| 366    | 5750             | 2 54             | 58,000 32  |   |   |   | 54,400 30   | 53,200 29   | 51,800 28   |
| 382    | 6000             | 2 87             | 60,800 38  |   |   |   | 57,000 35   | 56,600 35   | 55,400 34   |
| 393    | 6250             | 3 12             | 63,200 43  |   |   |   | 59,400 40   | 59,400 40   | 57,800 39   |
| 414    | 6500             | 3 38             | 65,800 48  |   |   |   | 62,400 45   |   | 61,200 44   |
| 430    | 6750             | 3 63             | 68,400 54  |   |   |   |   |   | 64,000 50   |
| 446    | 7000             | 3 91             | 71,000 60  |   |   |   |   |   | 67,000 56   |
| 477    | 7500             | 4 50             | 76,000 74  |   |   |   |   |   |   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 ozs. per sq. inch                        | Static Pressure 1 1/4" Water .723 ozs. per sq. inch                   | Static Pressure 1 1/2" Water .878 ozs. per sq. inch                 | Static Pressure 1 3/4" Water 1.01 ozs. per sq. inch                     | Static Pressure 2" Water 1.16 ozs. per sq. inch                         | Static Pressure 2 1/4" Water 1.30 ozs. per sq. inch                     | Static Pressure 2 1/2" Water 1.45 ozs. per sq. inch                 |
| 229    | 3600             | 1 03             | 14,500 4 2   |   |   |   |   |   |   |
| 242    | 3800             | 1 15             | 18,800 5 6   |   |   |   |   |   |   |
| 254    | 4000             | 1 28             | 23,000 7 2   | 15,800 6 2  |   |   |   |   |   |
| 268    | 4200             | 1 41             | 26,800 8 9   | 20,200 7 4  |   |   |   |   |   |
| 280    | 4400             | 1 54             | 30,200 11 0  | 24,000 9 3  | 17,500 7 5  |   |   |   |   |
| 293    | 4600             | 1 69             | 31,000 12 5  | 28,000 11 5   | 22,000 9 7  |   |   |   |   |
| 306    | 4800             | 1 84             | 37,000 15 0  | 32,000 13 5   | 26,200 12 0   | 20,000 9 9  |   |   |   |
| 318    | 5000             | 2 00             | 40,200 17 5  | 35,400 16 0   | 30,200 14 5   | 24,400 12 5   |   |   |   |
| 334    | 5250             | 2 20             | 43,600 21  | 39,600 19 5   | 34,800 18   | 29,400 16   | 24,000 14   |   |   |
| 350    | 5500             | 2 42             | 47,200 24  | 43,600 23   | 39,200 22   | 34,200 20   | 29,400 18   | 24,200 16   |   |
| 366    | 5750             | 2 54             | 50,000 27  | 46,600 26   | 43,200 25   | 39,200 23   | 34,400 22   | 27,600 19   |   |
| 382    | 6000             | 2 87             | 54,000 33  | 50,800 31   | 47,200 30   | 43,200 28   | 39,000 26   | 34,400 24   | 29,600 22   |
| 393    | 6250             | 3 12             | 57,200 39  | 54,400 36   | 51,000 35   | 47,400 33   | 43,800 31   | 39,200 29   | 34,800 27   |
| 414    | 6500             | 3 38             | 60,200 44  | 57,800 42   | 54,400 41   | 51,600 38   | 48,000 36   | 43,800 34   | 39,800 32   |
| 430    | 6750             | 3 63             | 63,200 49  | 61,000 48   | 58,000 45   | 55,200 44   | 51,800 42   | 48,200 40   | 44,600 38   |
| 446    | 7000             | 3 91             | 66,200 56  | 64,000 54   | 61,600 52   | 58,600 49   | 55,800 48   | 52,400 46   | 48,800 44   |
| 477    | 7500             | 4 50             | 71,800 70  | 70,200 68   | 68,000 66   | 65,600 62   | 63,200 62   | 60,200 60   | 57,400 58   |
| 510    | 8000             | 5 11             |  | 75,800 84   | 74,400 82   | 72,200 78   | 70,000 76   | 67,400 74   | 65,000 72   |
| 541    | 8500             | 5 76             |  | 81,600 100  | 80,200 98   | 78,000 96   | 76,400 94   | 74,400 92   | 72,000 90   |
| 574    | 9000             | 6 46             |  | 87,200 120  | 85,800 120  | 84,400 115  | 82,800 110  | 81,000 110  | 78,800 110  |
| 605    | 9500             | 7 20             |  |   | 91,600 140  | 90,000 140  | 88,600 135  | 87,000 130  | 85,800 130  |
| 637    | 10000            | 7 98             |  |   | 97,600 170  | 96,000 165  | 94,600 160  | 93,200 160  | 91,800 155  |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 2 1/2" Water 1.59 ozs. per sq. inch                    | Static Pressure 3" Water 1.73 ozs. per sq. inch                       | Static Pressure 3 1/4" Water 2.02 ozs. per sq. inch                 | Static Pressure 4" Water 2.31 ozs. per sq. inch                         | Static Pressure 5" Water 2.89 ozs. per sq. inch                         | Static Pressure 6" Water 3.47 ozs. per sq. inch                         | Static Pressure 7" Water 4.05 ozs. per sq. inch                     |
| 393    | 6250             | 3 12             | 30,400 25  |   |   |   |   |   |   |
| 414    | 6500             | 3 38             | 35,400 30  | 31,000 27   |   |   |   |   |   |
| 430    | 6750             | 3 63             | 40,200 35  | 36,200 33   |   |   |   |   |   |
| 446    | 7000             | 3 91             | 45,200 42  | 41,600 40   | 33,000 34   |   |   |   |   |
| 477    | 7500             | 4 50             | 54,200 56  | 50,600 52   | 43,200 48   | 35,800 42   |   |   |   |
| 510    | 8000             | 5 11             | 62,200 70  | 59,200 68   | 52,800 64   | 46,000 58   | 31,400 45   |   |   |
| 541    | 8500             | 5 76             | 70,000 88  | 67,200 84   | 61,000 80   | 55,200 74   | 42,000 62   |   |   |
| 574    | 9000             | 6 46             | 77,000 110   | 74,400 105  | 69,600 100  | 64,000 94   | 52,400 82   | 39,800 70   |   |
| 605    | 9500             | 7 20             | 83,000 130   | 81,600 125  | 77,400 120  | 72,400 115  | 61,600 105  | 50,200 92   | 38,000 76   |
| 637    | 10000            | 7 98             | 90,200 150   | 88,400 150  | 84,400 145  | 80,200 140  | 71,000 130  | 60,200 115  | 48,800 100  |

Double Inlet

## 110" Steel Plate Fan—Design 1

Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.                                       | H.P. | Volume C.F.M.                                       | H.P. | Volume C.F.M.                                       | H.P. | Volume C.F.M.                                       | H.P. | Volume C.F.M.                                   | H.P. | Volume C.F.M.                                       | H.P. | Volume C.F.M.                                   | H.P. |
|--------|------------------|------------------|---|------|---|------|---|------|---|------|---|------|---|------|---|------|
|        |                  |                  | Static Pressure 1/2" Water .0722 ozs. per sq. inch  |      | Static Pressure 1/2" Water .145 ozs. per sq. inch   |      | Static Pressure 3/4" Water .217 ozs. per sq. inch   |      | Static Pressure 1 1/2" Water .289 ozs. per sq. inch |      | Static Pressure 2" Water .361 ozs. per sq. inch |      | Static Pressure 3" Water .434 ozs. per sq. inch     |      | Static Pressure 4" Water .506 ozs. per sq. inch |      |
| 81     | 1400             | 0 157            | 9,900   | 0 4  |   |      |   |      |   |      |   |      |   |      |   |      |
| 93     | 1600             | 0 205            | 14,500  | 0 7  |   |      |   |      |   |      |   |      |   |      |   |      |
| 104    | 1800             | 0 259            | 18,500  | 1 1  | 9,200   | 0 7  |   |      |   |      |   |      |   |      |   |      |
| 116    | 2000             | 0 320            | 22,000  | 1 5  | 14,500  | 1 1  |   |      |   |      |   |      |   |      |   |      |
| 128    | 2200             | 0 387            | 25,400  | 2 1  | 19,300  | 1 7  | 11,200  | 1 2  |   |      |   |      |   |      |   |      |
| 139    | 2400             | 0 460            | 28,400  | 2 8  | 23,400  | 2 4  | 17,600  | 1 9  |   |      |   |      |   |      |   |      |
| 150    | 2600             | 0 540            | 31,200  | 3 6  | 27,200  | 3 2  | 21,400  | 2 7  | 14,500  | 2 3  |   |      |   |      |   |      |
| 162    | 2800             | 0 626            | 34,200  | 4 6  | 30,800  | 4 1  | 25,800  | 3 7  | 19,700  | 3 1  |   |      |   |      |   |      |
| 174    | 3000             | 0 718            | 37,000  | 5 7  | 34,200  | 5 2  | 29,800  | 4 7  | 24,600  | 4 1  | 19,800  | 3 5  |   |      |   |      |
| 185    | 3200             | 0 816            | 39,600  | 7 0  | 37,200  | 6 5  | 33,600  | 5 9  | 29,000  | 5 4  | 23,800  | 4 7  | 18,100  | 3 9  |   |      |
| 197    | 3400             | 0 922            | 42,100  | 8 4  | 40,200  | 7 9  | 37,200  | 7 3  | 33,200  | 6 8  | 28,600  | 6 1  | 23,000  | 5 3  | 18,000  | 4 5  |
| 208    | 3600             | 1 03             | 45,000  | 10 0 | 42,800  | 9 5  | 40,400  | 8 9  | 37,000  | 8 3  | 33,000  | 7 1  | 28,000  | 6 9  | 21,600  | 6 2  |
| 220    | 3800             | 1 15             | 47,800  | 12 0 | 46,000  | 11 5 | 43,800  | 11 0 | 40,600  | 10 0 | 37,000  | 9 4  | 34,800  | 8 7  | 28,400  | 8 0  |
| 232    | 4000             | 1 28             | 50,400  | 14 0 |   |      | 47,000  | 13 0 | 44,200  | 12 0 | 41,000  | 11 5 | 37,400  | 11   | 33,400  | 10 0 |
| 243    | 4200             | 1 41             | 53,000  | 16 0 |   |      | 50,000  | 15 0 | 47,600  | 14 0 | 45,000  | 13 5 | 41,400  | 13   | 37,800  | 12 0 |
| 254    | 4400             | 1 54             | 55,800  | 18 5 |   |      | 52,800  | 16 5 | 50,800  | 16 5 | 48,400  | 16   | 45,200  | 15   | 41,800  | 14 5 |
| 266    | 4600             | 1 69             | 58,400  | 21   |   |      | 55,600  | 20   | 54,000  | 20   | 52,000  | 19   | 48,800  | 18   | 46,200  | 17   |
| 278    | 4800             | 1 84             | 60,800  | 24   |   |      | 58,400  | 23   | 56,800  | 22   | 54,800  | 21   | 52,400  | 21   | 49,800  | 20   |
| 290    | 5000             | 2 00             | 63,600  | 27   |   |      |   |      | 59,600  | 26   | 58,000  | 25   | 56,000  | 24   | 53,400  | 23   |
| 304    | 5250             | 2 20             | 66,800  | 32   |   |      |   |      | 63,400  | 30   | 61,600  | 29   | 60,000  | 28   | 57,600  | 27   |
| 318    | 5500             | 2 42             | 70,000  | 37   |   |      |   |      | 67,000  | 35   | 65,600  | 34   | 63,800  | 33   | 62,000  | 32   |
| 332    | 5750             | 2 54             | 73,200  | 40   |   |      |   |      |   |      | 68,600  | 37   | 66,800  | 36   | 65,400  | 35   |
| 348    | 6000             | 2 87             | 76,600  | 48   |   |      |   |      |   |      | 72,000  | 44   | 71,400  | 44   | 70,000  | 43   |
| 361    | 6250             | 3 12             | 79,600  | 54   |   |      |   |      |   |      |   |      | 74,800  | 50   | 72,800  | 49   |
| 376    | 6500             | 3 38             | 83,000  | 60   |   |      |   |      |   |      |   |      | 78,800  | 58   | 77,400  | 56   |
| 390    | 6750             | 3 63             | 86,200  | 68   |   |      |   |      |   |      |   |      |   |      | 80,800  | 62   |
| 405    | 7000             | 3 91             | 89,400  | 76   |   |      |   |      |   |      |   |      |   |      | 81,600  | 70   |
| 435    | 7500             | 4 5              | 96,000  | 94   |   |      |   |      |   |      |   |      |   |      |   |      |
| L.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 ozs. per sq. inch     |      | Static Pressure 1 1/2" Water .723 ozs. per sq. inch |      | Static Pressure 2" Water .878 ozs. per sq. inch     |      | Static Pressure 2 1/2" Water 1.01 ozs. per sq. inch |      | Static Pressure 3" Water 1.16 ozs. per sq. inch |      | Static Pressure 3 1/2" Water 1.30 ozs. per sq. inch |      | Static Pressure 4" Water 1.45 ozs. per sq. inch |      |
| 208    | 3600             | 1 03             | 18,300  | 5 2  |   |      |   |      |   |      |   |      |   |      |   |      |
| 220    | 3800             | 1 15             | 23,800  | 7 0  |   |      |   |      |   |      |   |      |   |      |   |      |
| 232    | 4000             | 1 28             | 29,000  | 9 4  | 20,000  | 8    |   |      |   |      |   |      |   |      |   |      |
| 243    | 4200             | 1 41             | 33,800  | 11 0 | 25,400  | 9    |   |      |   |      |   |      |   |      |   |      |
| 254    | 4400             | 1 54             | 38,200  | 13 5 | 30,400  | 12   | 22,000  | 9    |   |      |   |      |   |      |   |      |
| 266    | 4600             | 1 69             | 42,800  | 16   | 35,400  | 15   | 27,800  | 12   |   |      |   |      |   |      |   |      |
| 278    | 4800             | 1 84             | 46,800  | 19   | 40,200  | 17   | 33,200  | 15   | 25,200  | 13   |   |      |   |      |   |      |
| 290    | 5000             | 2 00             | 50,800  | 22   | 44,800  | 20   | 38,000  | 19   | 30,800  | 16   |   |      |   |      |   |      |
| 304    | 5250             | 2 20             | 55,200  | 26   | 50,000  | 25   | 44,000  | 23   | 37,200  | 20   | 30,400  | 18   |   |      |   |      |
| 318    | 5500             | 2 42             | 59,600  | 31   | 55,000  | 29   | 49,400  | 27   | 43,200  | 25   | 37,200  | 23   | 30,600  | 20   |   |      |
| 332    | 5750             | 2 54             | 63,200  | 34   | 58,800  | 33   | 54,400  | 31   | 49,400  | 29   | 43,400  | 27   | 34,800  | 24   |   |      |
| 348    | 6000             | 2 87             | 68,200  | 42   | 64,200  | 39   | 59,600  | 38   | 54,600  | 36   | 49,200  | 33   | 43,100  | 31   | 37,400  | 28   |
| 361    | 6250             | 3 12             | 72,400  | 48   | 68,600  | 46   | 64,400  | 44   | 59,800  | 41   | 55,400  | 39   | 49,600  | 37   | 44,000  | 35   |
| 376    | 6500             | 3 38             | 76,000  | 54   | 72,800  | 52   | 68,600  | 50   | 65,000  | 48   | 60,600  | 45   | 55,400  | 43   | 50,400  | 41   |
| 390    | 6750             | 3 63             | 79,800  | 62   | 77,000  | 60   | 73,200  | 58   | 69,600  | 56   | 65,400  | 52   | 60,800  | 50   | 56,400  | 48   |
| 405    | 7000             | 3 91             | 83,600  | 70   | 80,800  | 68   | 77,600  | 64   | 74,000  | 62   | 70,400  | 60   | 66,200  | 58   | 61,600  | 56   |
| 435    | 7500             | 4 50             | 90,600  | 88   | 88,600  | 84   | 85,800  | 82   | 82,800  | 80   | 79,600  | 78   | 76,000  | 76   | 72,400  | 72   |
| 464    | 8000             | 5 11             |   |      | 95,800  | 105  | 93,600  | 105  | 91,200  | 100  | 88,400  | 96   | 85,000  | 94   | 82,000  | 92   |
| 491    | 8500             | 5 76             |   |      | 103,000   | 130  | 101,000   | 125  | 98,400  | 120  | 96,600  | 120  | 94,000  | 115  | 91,000  | 110  |
| 520    | 9000             | 6 46             |   |      | 110,000   | 150  | 108,000   | 150  | 107,000   | 150  | 104,000   | 145  | 102,000   | 140  | 99,600  | 135  |
| 550    | 9500             | 7 20             |   |      |   |      | 116,000   | 180  | 114,000   | 175  | 112,000   | 170  | 110,000   | 170  | 108,000   | 165  |
| 578    | 10000            | 7 98             |   |      |   |      | 133,000   | 210  | 131,000   | 210  | 129,000   | 200  | 128,000   | 200  | 126,000   | 195  |
| P.M.   | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 2 1/2" Water 1.59 ozs. per sq. inch |      | Static Pressure 3" Water 1.73 ozs. per sq. inch     |      | Static Pressure 3 1/2" Water 2.02 ozs. per sq. inch |      | Static Pressure 4" Water 2.31 ozs. per sq. inch     |      | Static Pressure 5" Water 2.89 ozs. per sq. inch |      | Static Pressure 6" Water 3.47 ozs. per sq. inch     |      | Static Pressure 7" Water 4.05 ozs. per sq. inch |      |
| 61     | 6250             | 3 12             | 38,200  | 31   |   |      |   |      |   |      |   |      |   |      |   |      |
| 76     | 6500             | 3 38             | 44,800  | 38   | 39,200  | 35   |   |      |   |      |   |      |   |      |   |      |
| 90     | 6750             | 3 63             | 50,800  | 44   | 45,600  | 42   |   |      |   |      |   |      |   |      |   |      |
| 105    | 7000             | 3 91             | 56,800  | 52   | 52,400  | 50   | 41,800  | 43   |   |      |   |      |   |      |   |      |
| 135    | 7500             | 4 50             | 68,200  | 70   | 64,000  | 66   | 54,600  | 60   | 45,200  | 54   |   |      |   |      |   |      |
| 164    | 8000             | 5 11             | 78,600  | 88   | 74,800  | 86   | 66,800  | 80   | 58,000  | 72   | 39,800  | 56   |   |      |   |      |
| 191    | 8500             | 5 76             | 88,200  | 110  | 84,800  | 110  | 77,600  | 100  | 69,800  | 94   | 53,200  | 80   |   |      |   |      |
| 210    | 9000             | 6 46             | 97,200  | 135  | 94,000  | 130  | 88,000  | 125  | 81,000  | 120  | 66,000  | 105  | 50,200  | 88   |   |      |
| 250    | 9500             | 7 20             | 116,000   | 165  | 103,000   | 160  | 97,800  | 150  | 91,200  | 145  | 78,000  | 130  | 63,400  | 115  | 47,800  | 96   |
| 278    | 10000            | 7 98             | 114,000   | 190  | 112,000   | 190  | 107,000   | 185  | 101,000   | 175  | 89,600  | 165  | 76,000  | 150  | 61,600  | 130  |

Double Inlet

## 120" Steel Plate Fan—Design 1

Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M. H. P. Static Pressure 1/2" Water .0722 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1/4" Water .145 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 3/8" Water .217 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1/2" Water .289 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 5/8" Water .361 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 3/4" Water .434 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 7/8" Water .506 ozs. per sq. inch |
|--------|------------------|------------------|--|---|---|---|---|---|---|
| 74     | 1400             | 0 157            | 13,500 0 52  |   |   |   |   |   |   |
| 85     | 1600             | 0 205            | 19,800 0 92  |   |   |   |   |   |   |
| 95     | 1800             | 0 259            | 25,200 1 4   | 12,500 0 89   |   |   |   |   |   |
| 100    | 2000             | 0 320            | 30,000 2 0   | 19,800 1 45   |   |   |   |   |   |
| 117    | 2200             | 0 387            | 34,600 2 9   | 26,200 2 3  | 15,200 1 6  |   |   |   |   |
| 127    | 2400             | 0 460            | 38,600 3 8   | 31,800 3 2  | 22,600 2 6  |   |   |   |   |
| 138    | 2600             | 0 540            | 42,600 4 9   | 37,000 4 3  | 29,000 3 7  | 19,780 3 2  |   |   |   |
| 149    | 2800             | 0 626            | 46,400 6 2   | 41,800 5 6  | 35,000 5 0  | 27,000 4 2  |   |   |   |
| 159    | 3000             | 0 718            | 50,200 7 7   | 46,400 7 1  | 40,600 6 4  | 33,400 5 6  | 25,600 4 7  |   |   |
| 170    | 3200             | 0 816            | 53,800 9 5   | 50,800 8 8  | 45,600 8 0  | 39,600 7 3  | 32,400 6 4  | 24,600 5 1  |   |
| 180    | 3400             | 0 922            | 57,600 11 5  | 54,800 11 0   | 50,600 10 0   | 45,200 9 2  | 38,800 8 4  | 31,200 7 2  | 21,200 6 1  |
| 191    | 3600             | 1 03             | 61,200 11  | 58,400 13 0   | 55,000 12 0   | 50,400 11 0   | 44,800 10 5   | 38,000 9 4  | 21,200 8 4  |
| 202    | 3800             | 1 15             | 63,000 16  | 62,600 15 5   | 59,600 14 5   | 55,200 13 5   | 50,400 13 0   | 44,600 12   | 38,600 11 0   |
| 212    | 4000             | 1 28             | 68,400 19  |   | 64,000 17 5   | 60,000 16 5   | 55,800 15 5   | 50,800 15   | 45,400 13 5   |
| 223    | 4200             | 1 41             | 72,200 22  |   | 68,000 20   | 64,600 19 5   | 61,200 18 5   | 56,400 18   | 51,600 15 5   |
| 233    | 4400             | 1 54             | 75,800 25  |   | 71,600 24   | 69,000 23   | 66,000 22   | 61,600 21   | 56,800 19 5   |
| 244    | 4600             | 1 69             | 79,400 29  |   | 75,600 27   | 73,600 27   | 70,800 26   | 66,400 24   | 62,800 23   |
| 255    | 4800             | 1 84             | 82,600 33  |   | 79,400 31   | 77,100 30   | 74,600 29   | 71,200 28   | 67,600 27   |
| 266    | 5000             | 2 00             | 86,400 37  |   |   | 81,200 35   | 78,800 34   | 76,000 32   | 72,600 31   |
| 278    | 5250             | 2 20             | 91,800 43  |   |   | 86,200 40   | 84,000 39   | 81,600 38   | 78,400 37   |
| 292    | 5500             | 2 42             | 95,200 50  |   |   | 91,000 47   | 89,200 46   | 86,800 45   | 84,200 44   |
| 305    | 5750             | 2 54             | 99,400 54  |   |   |   | 93,400 50   | 91,600 50   | 89,000 48   |
| 318    | 6000             | 2 87             | 101,600 64   |   |   |   | 97,800 60   | 97,000 60   | 95,000 58   |
| 332    | 6250             | 3 12             | 108,000 71   |   |   |   |   | 102,000 68  | 99,200 66   |
| 345    | 6500             | 3 38             | 113,000 82   |   |   |   |   | 117,000 78  | 105,000 76  |
| 358    | 6750             | 3 63             | 117,000 92   |   |   |   |   |   | 110,000 86  |
| 372    | 7000             | 3 91             | 122,000 105  |   |   |   |   |   | 115,200 96  |
| 398    | 7500             | 4 50             | 132,000 130  |   |   |   |   |   |   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 ozs. per sq. inch                        | Static Pressure 1 1/4" Water .723 ozs. per sq. inch                   | Static Pressure 1 1/2" Water .878 ozs. per sq. inch                   | Static Pressure 1 3/4" Water 1.01 ozs. per sq. inch                   | Static Pressure 2" Water 1.16 ozs. per sq. inch                       | Static Pressure 2 1/2" Water 1.30 ozs. per sq. inch                   | Static Pressure 2 3/4" Water 1.43 ozs. per sq. inch                   |
| 191    | 3600             | 1 03             | 25,000 7 1   |   |   |   |   |   |   |
| 202    | 3800             | 1 15             | 32,400 9 6   |   |   |   |   |   |   |
| 212    | 4000             | 1 28             | 39,600 12 5  | 27,200 10 5   |   |   |   |   |   |
| 223    | 4200             | 1 41             | 46,600 15 0  | 35,000 13   |   |   |   |   |   |
| 233    | 4400             | 1 54             | 52,000 18 5  | 41,200 16   | 30,000 13 0   |   |   |   |   |
| 244    | 4600             | 1 69             | 58,100 22  | 48,000 19   | 37,600 16 5   |   |   |   |   |
| 255    | 4800             | 1 84             | 63,600 26  | 54,800 23   | 45,000 21   | 34,400 17   |   |   |   |
| 266    | 5000             | 2 00             | 69,000 30  | 60,800 28   | 51,800 25   | 42,000 22   |   |   |   |
| 278    | 5250             | 2 20             | 75,000 35  | 68,000 33   | 60,000 31   | 50,600 28   | 47,200 24   |   |   |
| 292    | 5500             | 2 42             | 81,200 42  | 74,800 40   | 67,200 37   | 58,800 34   | 50,400 31   | 41,000 27   |   |
| 305    | 5750             | 2 54             | 86,000 47  | 80,000 45   | 74,000 42   | 67,200 40   | 59,000 37   | 47,400 33   |   |
| 318    | 6000             | 2 87             | 92,600 56  | 87,200 54   | 81,000 52   | 74,200 48   | 66,800 45   | 59,200 42   | 57,000 38   |
| 332    | 6250             | 3 12             | 98,400 66  | 93,200 62   | 87,600 60   | 81,400 56   | 75,200 54   | 67,600 50   | 59,800 46   |
| 345    | 6500             | 3 38             | 103,000 74   | 98,200 72   | 93,200 68   | 88,400 66   | 82,400 62   | 75,400 60   | 68,400 56   |
| 358    | 6750             | 3 63             | 109,000 84   | 105,000 80  | 99,800 78   | 94,600 74   | 89,000 72   | 82,800 68   | 76,600 66   |
| 372    | 7000             | 3 91             | 114,000 96   | 110,000 92  | 106,000 88  | 101,000 84  | 95,800 82   | 90,000 78   | 83,800 76   |
| 398    | 7500             | 4 50             | 123,000 120  | 120,000 115   | 117,000 110   | 113,000 110   | 108,000 105   | 103,000 105   | 98,400 98   |
| 425    | 8000             | 5 11             |  | 130,000 145   | 127,000 140   | 124,000 135   | 120,000 130   | 116,000 130   | 112,000 125   |
| 451    | 8500             | 5 76             |  | 140,000 170   | 138,000 170   | 134,000 165   | 131,000 160   | 128,000 155   | 124,000 150   |
| 478    | 9000             | 6 46             |  | 150,000 210   | 147,000 200   | 145,000 200   | 142,000 195   | 139,000 190   | 135,000 190   |
| 504    | 9500             | 7 20             |  |   | 157,000 240   | 155,000 240   | 152,000 230   | 150,000 230   | 147,000 230   |
| 530    | 10000            | 7 98             |  |   | 167,000 290   | 165,000 280   | 162,000 280   | 160,000 270   | 158,000 270   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 2 1/2" Water 1.59 ozs. per sq. inch                    | Static Pressure 3" Water 1.73 ozs. per sq. inch                       | Static Pressure 3 1/2" Water 2.02 ozs. per sq. inch                   | Static Pressure 4" Water 2.31 ozs. per sq. inch                       | Static Pressure 5" Water 2.89 ozs. per sq. inch                       | Static Pressure 6" Water 3.47 ozs. per sq. inch                       | Static Pressure 7" Water 4.05 ozs. per sq. inch                       |
| 332    | 6250             | 3 12             | 52,000 12  |   |   |   |   |   |   |
| 345    | 6500             | 3 38             | 67,000 52  | 53,200 47   |   |   |   |   |   |
| 358    | 6750             | 3 63             | 69,000 60  | 62,200 56   |   |   |   |   |   |
| 372    | 7000             | 3 91             | 77,400 72  | 71,200 68   | 56,800 58   |   |   |   |   |
| 398    | 7500             | 4 50             | 93,000 91  | 87,000 90   | 74,200 82   | 61,400 72   |   |   |   |
| 425    | 8000             | 5 11             | 107,000 120  | 102,000 115   | 90,800 110  | 78,800 100  | 54,000 78   |   |   |
| 451    | 8500             | 5 76             | 120,000 150  | 115,000 145   | 106,000 135   | 94,800 130  | 72,200 110  |   |   |
| 478    | 9000             | 6 46             | 132,000 185  | 128,000 180   | 119,000 170   | 110,000 160   | 89,800 140  | 68,200 120  |   |
| 501    | 9500             | 7 20             | 144,000 220  | 140,000 220   | 133,000 210   | 124,000 195   | 106,000 180   | 86,200 155  | 65,000 130  |
| 530    | 10000            | 7 98             | 155,000 260  | 152,000 260   | 145,000 250   | 138,000 240   | 122,000 220   | 103,000 200   | 83,600 170  |



Double Inlet

## 140" Steel Plate Fan—Design 1

Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances.

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                     | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                     | H. P. | Volume C.F.M.                                     | H. P. | Volume C.F.M.                                     | H. P. | Volume C.F.M.                                     | H. P. |
|--------|------------------|------------------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|
|        |                  |                  | Static Pressure 1/2" Water .0722 ozs. per sq. inch  |       | Static Pressure 1/2" Water .145 ozs. per sq. inch |       | Static Pressure 1/2" Water .217 ozs. per sq. inch   |       | Static Pressure 1/2" Water .289 ozs. per sq. inch |       | Static Pressure 1/2" Water .361 ozs. per sq. inch |       | Static Pressure 1/2" Water .434 ozs. per sq. inch |       | Static Pressure 1/2" Water .506 ozs. per sq. inch |       |
| 63     | 1100             | 0 157            | 17,500  | 0 68  |   |       |   |       |   |       |   |       |   |       |   |       |
| 73     | 1600             | 0 205            | 25,800  | 1 20  |   |       |   |       |   |       |   |       |   |       |   |       |
| 82     | 1800             | 0 259            | 32,800  | 1 85  | 16,300  | 1 15  |   |       |   |       |   |       |   |       |   |       |
| 91     | 2000             | 0 320            | 39,000  | 1 7   | 25,800  | 1 9   |   |       |   |       |   |       |   |       |   |       |
| 100    | 2200             | 0 387            | 45,000  | 3 7   | 34,200  | 3 0   | 19,700  | 2 1   |   |       |   |       |   |       |   |       |
| 109    | 2400             | 0 460            | 50,200  | 4 9   | 41,100  | 4 2   | 20,800  | 3 4   |   |       |   |       |   |       |   |       |
| 118    | 2600             | 0 540            | 55,400  | 6 4   | 48,000  | 5 6   | 37,800  | 4 8   | 25,800  | 4 1   |   |       |   |       |   |       |
| 127    | 2800             | 0 626            | 60,400  | 8 1   | 51,600  | 7 3   | 45,600  | 6 5   | 35,000  | 5 4   |   |       |   |       |   |       |
| 136    | 3000             | 0 718            | 65,100  | 10 0  | 60,400  | 9 2   | 52,800  | 8 3   | 43,400  | 7 3   | 33,200  | 6 2   |   |       |   |       |
| 145    | 3200             | 0 816            | 70,000  | 12 5  | 66,000  | 11 5  | 59,400  | 10 5  | 51,100  | 9 4   | 42,200  | 8 4   | 32,000  | 7 0   | 31,800  | 8 0   |
| 155    | 3400             | 0 922            | 75,000  | 15    | 71,200  | 14    | 65,800  | 13    | 59,000  | 12 0  | 50,400  | 11 0  | 40,600  | 9 3   | 41,600  | 11 0  |
| 164    | 3600             | 1 03             | 79,600  | 18    | 76,000  | 17    | 71,600  | 16    | 65,600  | 14 5  | 58,400  | 13 5  | 49,400  | 12 0  |   |       |
| 173    | 3800             | 1 15             | 84,400  | 21    | 81,600  | 20    | 77,600  | 19    | 71,600  | 17 5  | 65,100  | 16 5  | 58,000  | 15 5  | 50,400  | 14 0  |
| 182    | 4000             | 1 28             | 89,000  | 25    |   |       | 83,000  | 23    | 78,200  | 21    | 72,600  | 20    | 66,200  | 19    | 59,000  | 17 5  |
| 191    | 4200             | 1 41             | 94,000  | 29    |   |       | 88,400  | 27    | 84,000  | 25    | 79,600  | 24    | 73,200  | 23    | 67,000  | 22    |
| 200    | 4400             | 1 54             | 98,800  | 33    |   |       | 93,200  | 31    | 89,800  | 30    | 85,800  | 28    | 80,000  | 27    | 73,800  | 25    |
| 209    | 4600             | 1 69             | 103,000   | 37    |   |       | 98,400  | 36    | 94,600  | 35    | 92,000  | 33    | 86,400  | 31    | 81,600  | 30    |
| 218    | 4800             | 1 84             | 108,000   | 43    |   |       | 103,000   | 41    | 101,000   | 39    | 97,000  | 38    | 92,600  | 37    | 88,000  | 35    |
| 228    | 5000             | 2 00             | 113,000   | 48    |   |       |   |       | 106,000   | 45    | 103,000   | 44    | 99,000  | 42    | 94,400  | 40    |
| 239    | 5250             | 2 20             | 118,000   | 56    |   |       |   |       | 112,000   | 52    | 109,000   | 52    | 106,000   | 50    | 102,000   | 48    |
| 250    | 5500             | 2 42             | 124,000   | 64    |   |       |   |       | 118,000   | 62    | 116,000   | 60    | 113,000   | 58    | 109,000   | 56    |
| 261    | 5750             | 2 54             | 129,000   | 72    |   |       |   |       |   |       | 121,000   | 66    | 119,000   | 64    | 116,000   | 62    |
| 273    | 6000             | 2 87             | 136,000   | 84    |   |       |   |       |   |       | 127,000   | 78    | 126,000   | 78    | 124,000   | 76    |
| 284    | 6250             | 3 12             | 141,000   | 96    |   |       |   |       |   |       |   |       | 133,000   | 88    | 129,000   | 86    |
| 296    | 6500             | 3 38             | 147,000   | 110   |   |       |   |       |   |       |   |       | 139,000   | 100   | 137,000   | 100   |
| 307    | 6750             | 3 63             | 153,000   | 120   |   |       |   |       |   |       |   |       |   |       | 143,000   | 110   |
| 318    | 7000             | 3 91             | 158,000   | 130   |   |       |   |       |   |       |   |       |   |       | 150,000   | 125   |
| 311    | 7500             | 4 50             | 170,000   | 170   |   |       |   |       |   |       |   |       |   |       |   |       |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1/2" Water .078 ozs. per sq. inch   |       | Static Pressure 1/2" Water .156 ozs. per sq. inch |       | Static Pressure 1/2" Water .234 ozs. per sq. inch   |       | Static Pressure 1/2" Water .312 ozs. per sq. inch |       | Static Pressure 1/2" Water .390 ozs. per sq. inch |       | Static Pressure 1/2" Water .468 ozs. per sq. inch |       | Static Pressure 1/2" Water .546 ozs. per sq. inch |       |
| 161    | 3600             | 1 03             | 32,400  | 9 3   |   |       |   |       |   |       |   |       |   |       |   |       |
| 173    | 3800             | 1 15             | 42,000  | 12 5  |   |       |   |       |   |       |   |       |   |       |   |       |
| 182    | 4000             | 1 28             | 51,400  | 16    | 35,400  | 14 0  |   |       |   |       |   |       |   |       |   |       |
| 191    | 4200             | 1 41             | 59,800  | 20    | 45,000  | 16 5  |   |       |   |       |   |       |   |       |   |       |
| 200    | 4400             | 1 54             | 67,600  | 24    | 53,800  | 21    | 39,000  | 16 5  |   |       |   |       |   |       |   |       |
| 209    | 4600             | 1 69             | 76,000  | 28    | 62,600  | 26    | 49,000  | 22    |   |       |   |       |   |       |   |       |
| 218    | 4800             | 1 84             | 82,600  | 34    | 71,200  | 30    | 58,600  | 27    | 44,600  | 22    |   |       |   |       |   |       |
| 228    | 5000             | 2 00             | 89,800  | 39    | 79,200  | 36    | 67,400  | 33    | 54,600  | 28    |   |       |   |       |   |       |
| 239    | 5250             | 2 20             | 97,600  | 46    | 88,400  | 43    | 77,800  | 40    | 65,800  | 36    | 53,800  | 31    |   |       |   |       |
| 250    | 5500             | 2 42             | 106,000   | 54    | 97,400  | 52    | 87,400  | 48    | 76,600  | 44    | 65,600  | 40    | 54,200  | 35    |   |       |
| 261    | 5750             | 2 54             | 112,000   | 60    | 104,000   | 58    | 96,200  | 56    | 87,400  | 52    | 77,000  | 48    | 61,800  | 42    |   |       |
| 273    | 6000             | 2 87             | 121,000   | 74    | 113,000   | 70    | 105,000   | 66    | 96,600  | 62    | 86,800  | 58    | 77,000  | 54    | 66,400  | 49    |
| 284    | 6250             | 3 12             | 128,000   | 86    | 121,000   | 80    | 114,000   | 78    | 106,000   | 74    | 98,000  | 70    | 87,800  | 66    | 77,800  | 60    |
| 296    | 6500             | 3 38             | 135,000   | 98    | 129,000   | 94    | 121,000   | 88    | 115,000   | 86    | 106,000   | 80    | 98,000  | 78    | 89,000  | 72    |
| 307    | 6750             | 3 63             | 142,000   | 110   | 136,000   | 105   | 130,000   | 100   | 123,000   | 98    | 116,000   | 94    | 108,000   | 88    | 99,600  | 84    |
| 318    | 7000             | 3 91             | 148,000   | 125   | 143,000   | 120   | 137,000   | 116   | 131,000   | 110   | 124,000   | 110   | 117,000   | 106   | 109,000   | 98    |
| 311    | 7500             | 4 50             | 160,000   | 155   | 157,000   | 150   | 152,000   | 145   | 146,000   | 140   | 141,000   | 135   | 135,000   | 130   | 128,000   | 130   |
| 361    | 8000             | 5 11             |   |       | 169,000   | 185   | 166,000   | 180   | 161,000   | 175   | 156,000   | 170   | 151,800   | 165   | 145,000   | 160   |
| 386    | 8500             | 5 76             |   |       | 182,000   | 220   | 179,000   | 220   | 174,000   | 210   | 171,000   | 210   | 166,000   | 200   | 161,000   | 200   |
| 409    | 9000             | 6 46             |   |       | 195,000   | 270   | 191,000   | 260   | 189,000   | 260   | 185,000   | 250   | 181,000   | 250   | 176,000   | 240   |
| 432    | 9500             | 7 20             |   |       |   |       | 204,000   | 320   | 202,000   | 310   | 198,000   | 300   | 195,000   | 300   | 191,000   | 290   |
| 455    | 10000            | 7 98             |   |       |   |       | 218,000   | 370   | 214,000   | 360   | 212,000   | 360   | 208,000   | 350   | 206,000   | 350   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 2 1/2" Water 1.59 ozs. per sq. inch |       | Static Pressure 3" Water 1.73 ozs. per sq. inch   |       | Static Pressure 3 1/2" Water 2.02 ozs. per sq. inch |       | Static Pressure 4" Water 2.31 ozs. per sq. inch   |       | Static Pressure 5" Water 2.89 ozs. per sq. inch   |       | Static Pressure 6" Water 3.47 ozs. per sq. inch   |       | Static Pressure 7" Water 4.05 ozs. per sq. inch   |       |
| 284    | 6250             | 3 12             | 67,800  | 54    |   |       |   |       |   |       |   |       |   |       |   |       |
| 296    | 6500             | 3 38             | 79,200  | 68    | 60,200  | 62    |   |       |   |       |   |       |   |       |   |       |
| 307    | 6750             | 3 63             | 89,800  | 78    | 80,800  | 74    |   |       |   |       |   |       |   |       |   |       |
| 318    | 7000             | 3 91             | 101,000   | 92    | 92,800  | 88    | 74,000  | 76    |   |       |   |       |   |       |   |       |
| 311    | 7500             | 4 50             | 121,000   | 125   | 113,000   | 120   | 96,600  | 110   | 80,000  | 94    |   |       |   |       |   |       |
| 364    | 8000             | 5 11             | 139,000   | 160   | 132,000   | 150   | 118,000   | 140   | 103,000   | 130   | 70,400  | 100   |   |       |   |       |
| 386    | 8500             | 5 76             | 156,000   | 195   | 150,000   | 190   | 137,000   | 180   | 123,000   | 170   | 94,000  | 140   |   |       |   |       |
| 409    | 9000             | 6 46             | 172,000   | 240   | 166,000   | 230   | 155,000   | 220   | 143,000   | 210   | 117,000   | 185   | 88,800  | 155   | 84,600  | 170   |
| 432    | 9500             | 7 20             | 187,000   | 290   | 182,000   | 280   | 173,000   | 270   | 162,000   | 260   | 138,000   | 230   | 112,000   | 200   |   |       |
| 455    | 10000            | 7 98             | 202,000   | 340   | 198,000   | 330   | 188,000   | 320   | 179,000   | 310   | 158,000   | 290   | 134,000   | 260   | 109,000   | 230   |

Double Inlet

## 160" Steel Plate Fan—Design 1

Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances.

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.<br>Static Pressure<br>1/2" Water<br>.0722 ozs. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure<br>3/4" Water<br>.145 ozs. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure<br>1" Water<br>.217 ozs. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure<br>1 1/4" Water<br>.289 ozs. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure<br>1 1/2" Water<br>.361 ozs. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure<br>2" Water<br>.434 ozs. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure<br>2 1/2" Water<br>.506 ozs. per sq. inch | H. P. |
|--------|------------------|------------------|---|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|
| 56     | 1400             | 0.157            | 19,700  | 0.77  |  |       |  |       |  |       |  |       |  |       |  |       |
| 64     | 1600             | 0.205            | 29,000  | 1.35  |  |       |  |       |  |       |  |       |  |       |  |       |
| 72     | 1800             | 0.259            | 36,800  | 2.1   | 18,300   | 1.3   |  |       |  |       |  |       |  |       |  |       |
| 79     | 2000             | 0.320            | 44,000  | 3.0   | 29,000   | 2.1   |  |       |  |       |  |       |  |       |  |       |
| 87     | 2200             | 0.387            | 50,600  | 4.2   | 38,400   | 3.4   | 22,200   | 2.4   |  |       |  |       |  |       |  |       |
| 95     | 2400             | 0.460            | 56,400  | 5.5   | 46,400   | 4.7   | 33,000   | 3.8   |  |       |  |       |  |       |  |       |
| 103    | 2600             | 0.510            | 62,200  | 7.2   | 54,000   | 6.3   | 42,400   | 5.4   | 29,000   | 4.6   |  |       |  |       |  |       |
| 110    | 2800             | 0.626            | 67,800  | 9.1   | 61,200   | 8.2   | 51,200   | 7.3   | 38,400   | 6.1   |  |       |  |       |  |       |
| 119    | 3000             | 0.718            | 73,400  | 11.0  | 68,000   | 10.5  | 59,400   | 9.3   | 48,800   | 8.2   | 37,400   | 6.9   |  |       |  |       |
| 127    | 3200             | 0.816            | 78,600  | 13.0  | 71,200   | 13    | 66,600   | 12.0  | 57,800   | 10.5  | 47,100   | 9.4   | 36,000   | 7.8   |  |       |
| 135    | 3400             | 0.922            | 84,200  | 16.5  | 80,000   | 16    | 74,000   | 15.0  | 66,200   | 13.5  | 56,800   | 12.0  | 45,000   | 10.5  | 35,600   | 9.0   |
| 143    | 3600             | 1.03             | 89,600  | 20    | 85,200   | 19    | 80,400   | 17.5  | 73,600   | 16.5  | 64,600   | 15.5  | 55,600   | 14    | 46,800   | 12.5  |
| 151    | 3800             | 1.15             | 95,000  | 24    | 91,600   | 23    | 87,000   | 21    | 80,600   | 20    | 73,600   | 19    | 65,200   | 17    | 56,600   | 16    |
| 159    | 4000             | 1.28             | 100,000   | 28    |  |       | 93,400   | 25    | 88,000   | 24    | 81,600   | 23    | 74,400   | 21    | 66,400   | 20    |
| 167    | 4200             | 1.41             | 106,000   | 32    |  |       | 98,200   | 30    | 94,600   | 28    | 89,400   | 26    | 82,200   | 26    | 75,200   | 24    |
| 175    | 4400             | 1.54             | 111,000   | 37    |  |       | 105,000  | 34    | 101,000  | 33    | 96,400   | 32    | 90,000   | 30    | 83,000   | 29    |
| 183    | 4600             | 1.69             | 116,000   | 42    |  |       | 111,000  | 40    | 108,000  | 39    | 103,000  | 37    | 97,000   | 35    | 90,800   | 34    |
| 191    | 4800             | 1.84             | 121,000   | 48    |  |       | 116,000  | 46    | 113,000  | 44    | 109,000  | 43    | 104,000  | 41    | 99,000   | 39    |
| 199    | 5000             | 2.00             | 126,000   | 51    |  |       |  |       | 119,000  | 50    | 115,200  | 49    | 111,000  | 47    | 106,000  | 45    |
| 209    | 5250             | 2.20             | 133,000   | 64    |  |       |  |       | 126,000  | 58    | 123,000  | 58    | 119,000  | 56    | 115,000  | 51    |
| 219    | 5500             | 2.42             | 139,000   | 74    |  |       |  |       | 133,000  | 68    | 131,000  | 68    | 127,000  | 66    | 123,000  | 64    |
| 229    | 5750             | 2.54             | 145,000   | 80    |  |       |  |       |  |       | 137,000  | 74    | 134,000  | 72    | 130,000  | 70    |
| 239    | 6000             | 2.87             | 153,000   | 91    |  |       |  |       |  |       | 143,000  | 88    | 142,000  | 88    | 139,000  | 84    |
| 249    | 6250             | 3.12             | 159,000   | 110   |  |       |  |       |  |       |  |       | 149,000  | 100   | 145,000  | 98    |
| 258    | 6500             | 3.38             | 165,000   | 120   |  |       |  |       |  |       |  |       | 157,000  | 114   | 154,000  | 110   |
| 268    | 6750             | 3.63             | 171,000   | 135   |  |       |  |       |  |       |  |       |  |       | 161,000  | 125   |
| 278    | 7000             | 3.91             | 178,000   | 150   |  |       |  |       |  |       |  |       |  |       | 168,000  | 140   |
| 298    | 7500             | 4.50             | 190,000   | 190   |  |       |  |       |  |       |  |       |  |       |  |       |
| 143    | 3600             | 1.03             | 36,400  | 10.5  |  |       |  |       |  |       |  |       |  |       |  |       |
| 151    | 3800             | 1.15             | 47,200  | 14    |  |       |  |       |  |       |  |       |  |       |  |       |
| 159    | 4000             | 1.28             | 57,800  | 18    | 39,800   | 15.5  |  |       |  |       |  |       |  |       |  |       |
| 167    | 4200             | 1.41             | 67,200  | 22    | 50,600   | 18.5  |  |       |  |       |  |       |  |       |  |       |
| 175    | 4400             | 1.54             | 76,000  | 27    | 60,400   | 23    | 43,800   | 19    |  |       |  |       |  |       |  |       |
| 183    | 4600             | 1.69             | 85,200  | 32    | 70,400   | 29    | 55,200   | 24    |  |       |  |       |  |       |  |       |
| 191    | 4800             | 1.84             | 93,000  | 38    | 80,000   | 34    | 65,800   | 30    | 50,200   | 25    |  |       |  |       |  |       |
| 199    | 5000             | 2.00             | 101,000   | 44    | 89,000   | 40    | 75,600   | 37    | 61,200   | 32    |  |       |  |       |  |       |
| 209    | 5250             | 2.20             | 110,000   | 52    | 99,400   | 49    | 87,400   | 45    | 74,000   | 40    | 60,400   | 35    |  |       |  |       |
| 219    | 5500             | 2.42             | 119,000   | 62    | 109,000  | 58    | 98,200   | 54    | 86,000   | 50    | 73,800   | 45    | 60,800   | 40    |  |       |
| 229    | 5750             | 2.54             | 126,000   | 68    | 117,000  | 66    | 108,000  | 62    | 98,200   | 58    | 86,400   | 54    | 69,400   | 48    |  |       |
| 239    | 6000             | 2.87             | 135,000   | 82    | 128,000  | 78    | 118,000  | 74    | 108,000  | 70    | 97,800   | 66    | 86,400   | 62    | 74,000   | 56    |
| 249    | 6250             | 3.12             | 144,000   | 96    | 136,000  | 90    | 128,000  | 86    | 118,000  | 82    | 110,000  | 78    | 98,800   | 74    | 87,000   | 68    |
| 258    | 6500             | 3.38             | 151,000   | 110   | 145,000  | 105   | 136,000  | 100   | 129,000  | 96    | 121,000  | 90    | 110,000  | 86    | 100,000  | 82    |
| 268    | 6750             | 3.63             | 159,000   | 125   | 153,000  | 120   | 146,000  | 110   | 138,000  | 110   | 130,000  | 105   | 121,000  | 100   | 112,000  | 96    |
| 278    | 7000             | 3.91             | 168,000   | 140   | 161,000  | 130   | 154,000  | 120   | 147,000  | 125   | 140,000  | 120   | 132,000  | 115   | 122,000  | 110   |
| 298    | 7500             | 4.50             | 180,200   | 175   | 178,000  | 170   | 171,000  | 165   | 167,000  | 160   | 158,000  | 150   | 151,000  | 150   | 141,000  | 145   |
| 318    | 8000             | 5.11             |   |       | 190,800  | 210   | 186,000  | 200   | 181,000  | 195   | 176,000  | 190   | 169,000  | 185   | 173,000  | 180   |
| 338    | 8500             | 5.76             |   |       | 204,000  | 250   | 202,000  | 250   | 196,000  | 240   | 192,000  | 240   | 187,000  | 230   | 181,000  | 220   |
| 358    | 9000             | 6.46             |   |       | 220,000  | 300   | 216,000  | 300   | 212,000  | 290   | 208,000  | 290   | 204,000  | 280   | 198,000  | 270   |
| 378    | 9500             | 7.20             |   |       |  |       | 230,000  | 350   | 226,000  | 350   | 222,000  | 340   | 218,000  | 340   | 216,000  | 330   |
| 398    | 10000            | 7.98             |   |       |  |       | 244,000  | 420   | 242,000  | 410   | 238,000  | 400   | 234,000  | 400   | 230,000  | 390   |
| 249    | 6250             | 3.12             | 76,000  | 62    |  |       |  |       |  |       |  |       |  |       |  |       |
| 258    | 6500             | 3.38             | 89,000  | 76    | 78,000   | 68    |  |       |  |       |  |       |  |       |  |       |
| 268    | 6750             | 3.63             | 101,000   | 88    | 91,000   | 84    |  |       |  |       |  |       |  |       |  |       |
| 278    | 7000             | 3.91             | 113,000   | 105   | 104,000  | 100   | 83,000   | 84    |  |       |  |       |  |       |  |       |
| 298    | 7500             | 4.50             | 136,000   | 140   | 127,000  | 135   | 108,000  | 120   | 88,800   | 105   |  |       |  |       |  |       |
| 318    | 8000             | 5.11             | 157,000   | 175   | 149,000  | 170   | 133,000  | 160   | 115,000  | 145   | 79,000   | 110   |  |       |  |       |
| 338    | 8500             | 5.76             | 175,000   | 220   | 169,000  | 210   | 154,000  | 200   | 139,000  | 190   | 106,000  | 155   |  |       |  |       |
| 358    | 9000             | 6.46             | 193,000   | 270   | 187,000  | 260   | 175,000  | 250   | 161,000  | 240   | 131,000  | 210   | 99,800   | 170   |  |       |
| 378    | 9500             | 7.20             | 210,000   | 320   | 204,000  | 320   | 195,000  | 300   | 182,000  | 290   | 155,000  | 260   | 126,000  | 230   | 95,200   | 190   |
| 398    | 10000            | 7.98             | 226,000   | 390   | 222,000  | 380   | 212,000  | 360   | 202,000  | 350   | 178,000  | 320   | 151,000  | 280   | 122,000  | 250   |

Double Inlet

**180" Steel Plate Fan—Design 1**

Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. |
|--------|------------------|------------------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|
|        |                  |                  | Static Pressure 1/2" Water .0722 ozs. per sq. inch  |       | Static Pressure 1/2" Water .145 ozs. per sq. inch   |       | Static Pressure 3/4" Water .217 ozs. per sq. inch   |       | Static Pressure 1" Water .289 ozs. per sq. inch     |       | Static Pressure 1 1/4" Water .361 ozs. per sq. inch |       | Static Pressure 1 1/2" Water .434 ozs. per sq. inch |       | Static Pressure 1 3/4" Water .506 ozs. per sq. inch |       |
| 50     | 1400             | 0.157            | 24,600  | 0.96  |   |       |   |       |   |       |   |       |   |       |   |       |
| 57     | 1600             | 0.205            | 36,200  | 1.7   |   |       |   |       |   |       |   |       |   |       |   |       |
| 64     | 1800             | 0.259            | 46,000  | 2.6   | 22,800  | 1.6   |   |       |   |       |   |       |   |       |   |       |
| 71     | 2000             | 0.329            | 55,000  | 3.7   | 36,200  | 2.7   |   |       |   |       |   |       |   |       |   |       |
| 78     | 2200             | 0.387            | 63,200  | 5.2   | 48,000  | 4.3   | 27,800  | 3.0   |   |       |   |       |   |       |   |       |
| 85     | 2400             | 0.460            | 70,600  | 6.9   | 58,000  | 5.9   | 41,200  | 4.7   |   |       |   |       |   |       |   |       |
| 92     | 2600             | 0.540            | 77,800  | 9.0   | 67,600  | 7.9   | 53,200  | 6.7   | 36,200  | 5.8   |   |       |   |       |   |       |
| 99     | 2800             | 0.626            | 85,000  | 11.5  | 76,600  | 10.0  | 64,000  | 9.1   | 49,200  | 7.6   |   |       |   |       |   |       |
| 106    | 3000             | 0.718            | 91,800  | 14.0  | 85,000  | 13.0  | 74,200  | 11.5  | 61,200  | 10.0  | 46,800  | 8.7   |   |       |   |       |
| 113    | 3200             | 0.816            | 98,200  | 17.5  | 92,800  | 16.0  | 83,400  | 15    | 72,400  | 13.5  | 59,200  | 12    | 45,000  | 9.8   |   |       |
| 120    | 3400             | 0.922            | 105,000   | 21    | 100,000   | 19.5  | 92,600  | 18    | 82,800  | 17    | 71,000  | 15    | 57,000  | 13    | 44,600  | 11.0  |
| 127    | 3600             | 1.03             | 112,000   | 25    | 107,000   | 24    | 101,000   | 22    | 92,000  | 21    | 82,000  | 19    | 69,600  | 17    | 58,100  | 15.5  |
| 135    | 3800             | 1.15             | 119,000   | 30    | 115,000   | 28    | 109,000   | 27    | 101,000   | 25    | 92,000  | 23    | 81,600  | 22    | 70,800  | 20    |
| 141    | 4000             | 1.28             | 125,000   | 35    |   |       | 117,000   | 32    | 110,000   | 30    | 102,000   | 28    | 93,000  | 27    | 83,000  | 25    |
| 149    | 4200             | 1.41             | 132,000   | 40    |   |       | 124,000   | 37    | 118,000   | 36    | 112,000   | 31    | 103,000   | 32    | 94,200  | 30    |
| 156    | 4400             | 1.54             | 134,000   | 46    |   |       | 131,000   | 43    | 126,000   | 42    | 121,000   | 40    | 112,000   | 38    | 104,000   | 36    |
| 163    | 4600             | 1.69             | 145,000   | 52    |   |       | 138,000   | 50    | 135,000   | 49    | 130,000   | 47    | 122,000   | 44    | 115,000   | 42    |
| 170    | 4800             | 1.84             | 151,000   | 60    |   |       | 145,000   | 56    | 141,000   | 56    | 136,000   | 52    | 130,000   | 52    | 124,000   | 50    |
| 177    | 5000             | 2.00             | 158,000   | 68    |   |       |   |       | 148,000   | 64    | 144,000   | 62    | 139,000   | 60    | 133,000   | 56    |
| 186    | 5250             | 2.20             | 166,000   | 80    |   |       |   |       | 158,000   | 74    | 151,000   | 72    | 149,000   | 70    | 144,000   | 68    |
| 191    | 5500             | 2.42             | 174,000   | 92    |   |       |   |       | 167,000   | 86    |   |       | 163,000   | 84    | 159,000   | 80    |
| 201    | 5750             | 2.54             | 182,000   | 100   |   |       |   |       |   |       | 171,000   | 92    | 167,000   | 90    | 163,000   | 88    |
| 212    | 6000             | 2.87             | 191,000   | 120   |   |       |   |       |   |       | 179,000   | 110   | 178,000   | 110   | 174,000   | 110   |
| 221    | 6250             | 3.12             | 198,000   | 135   |   |       |   |       |   |       |   |       | 187,000   | 125   | 181,000   | 120   |
| 230    | 6500             | 3.38             | 206,000   | 150   |   |       |   |       |   |       |   |       | 196,000   | 145   | 193,000   | 140   |
| 239    | 6750             | 3.63             | 211,000   | 170   |   |       |   |       |   |       |   |       |   |       | 202,000   | 155   |
| 248    | 7000             | 3.91             | 220,000   | 190   |   |       |   |       |   |       |   |       |   |       | 210,000   | 175   |
| 266    | 7500             | 4.50             | 238,000   | 230   |   |       |   |       |   |       |   |       |   |       |   |       |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 ozs. per sq. inch     |       | Static Pressure 1 1/4" Water .723 ozs. per sq. inch |       | Static Pressure 1 1/2" Water .878 ozs. per sq. inch |       | Static Pressure 1 3/4" Water 1.01 ozs. per sq. inch |       | Static Pressure 2" Water 1.16 ozs. per sq. inch     |       | Static Pressure 2 1/4" Water 1.30 ozs. per sq. inch |       | Static Pressure 2 1/2" Water 1.45 ozs. per sq. inch |       |
| 127    | 3600             | 1.03             | 45,600  | 13.0  |   |       |   |       |   |       |   |       |   |       |   |       |
| 135    | 3800             | 1.15             | 59,200  | 17.5  |   |       |   |       |   |       |   |       |   |       |   |       |
| 141    | 4000             | 1.28             | 72,400  | 23    | 49,800  | 19    |   |       |   |       |   |       |   |       |   |       |
| 149    | 4200             | 1.41             | 84,000  | 28    | 63,400  | 23    |   |       |   |       |   |       |   |       |   |       |
| 156    | 4400             | 1.54             | 95,000  | 34    | 75,600  | 29    | 55,000  | 23    |   |       |   |       |   |       |   |       |
| 163    | 4600             | 1.69             | 107,000   | 40    | 88,000  | 36    | 68,800  | 30    |   |       |   |       |   |       |   |       |
| 170    | 4800             | 1.84             | 116,000   | 48    | 100,000   | 43    | 82,400  | 38    | 62,800  | 31    |   |       |   |       |   |       |
| 177    | 5000             | 2.00             | 126,000   | 56    | 111,000   | 50    | 94,600  | 46    | 76,800  | 40    |   |       |   |       |   |       |
| 186    | 5250             | 2.20             | 137,000   | 64    | 124,000   | 60    | 110,000   | 56    | 92,600  | 50    | 75,600  | 44    |   |       |   |       |
| 191    | 5500             | 2.42             | 148,000   | 76    | 137,000   | 72    | 123,000   | 68    | 108,000   | 62    | 92,200  | 56    | 76,200  | 50    |   |       |
| 201    | 5750             | 2.54             | 157,000   | 88    | 146,000   | 82    | 136,000   | 78    | 123,000   | 72    | 108,000   | 68    | 87,000  | 60    |   |       |
| 212    | 6000             | 2.87             | 169,000   | 105   | 160,000   | 98    | 148,000   | 94    | 124,000   | 88    | 112,000   | 82    | 108,000   | 76    | 93,200  | 70    |
| 221    | 6250             | 3.12             | 180,000   | 120   | 172,000   | 110   | 160,000   | 110   | 149,000   | 105   | 138,000   | 98    | 124,000   | 92    | 110,000   | 84    |
| 230    | 6500             | 3.38             | 189,000   | 135   | 181,000   | 130   | 171,000   | 125   | 162,000   | 120   | 151,000   | 110   | 138,000   | 110   | 125,000   | 100   |
| 239    | 6750             | 3.63             | 198,000   | 150   | 191,000   | 150   | 182,000   | 140   | 173,000   | 135   | 163,000   | 130   | 151,000   | 125   | 140,000   | 120   |
| 248    | 7000             | 3.91             | 208,000   | 170   | 202,000   | 170   | 193,000   | 160   | 184,000   | 155   | 175,000   | 150   | 165,000   | 145   | 153,000   | 135   |
| 266    | 7500             | 4.50             | 226,000   | 220   | 220,000   | 210   | 214,000   | 200   | 206,000   | 195   | 198,000   | 190   | 189,000   | 190   | 180,000   | 180   |
| 283    | 8000             | 5.11             |   |       | 238,000   | 260   | 234,000   | 250   | 226,000   | 250   | 220,000   | 240   | 212,000   | 230   | 204,000   | 230   |
| 301    | 8500             | 5.76             |   |       | 250,000   | 320   | 252,000   | 310   | 244,000   | 300   | 240,000   | 290   | 234,000   | 290   | 226,000   | 280   |
| 319    | 9000             | 6.46             |   |       | 274,000   | 380   | 270,000   | 370   | 266,000   | 370   | 260,000   | 360   | 254,000   | 350   | 248,000   | 340   |
| 336    | 9500             | 7.20             |   |       |   |       | 288,000   | 440   | 284,000   | 440   | 278,000   | 430   | 274,000   | 420   | 270,000   | 410   |
| 354    | 10000            | 7.98             |   |       |   |       | 306,000   | 520   | 302,000   | 510   | 296,000   | 500   | 292,000   | 500   | 288,000   | 490   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 2 3/4" Water 1.59 ozs. per sq. inch |       | Static Pressure 3" Water 1.73 ozs. per sq. inch     |       | Static Pressure 3 1/2" Water 2.02 ozs. per sq. inch |       | Static Pressure 4" Water 2.31 ozs. per sq. inch     |       | Static Pressure 5" Water 2.89 ozs. per sq. inch     |       | Static Pressure 6" Water 3.47 ozs. per sq. inch     |       | Static Pressure 7" Water 4.05 ozs. per sq. inch     |       |
| 221    | 6250             | 3.12             | 95,200  | 78    |   |       |   |       |   |       |   |       |   |       |   |       |
| 230    | 6500             | 3.38             | 111,000   | 94    | 97,400  | 86    |   |       |   |       |   |       |   |       |   |       |
| 239    | 6700             | 3.63             | 127,000   | 110   | 114,000   | 105   |   |       |   |       |   |       |   |       |   |       |
| 248    | 7000             | 3.91             | 142,000   | 130   | 131,000   | 125   | 104,000   | 110   |   |       |   |       |   |       |   |       |
| 266    | 7500             | 4.50             | 170,000   | 170   | 159,000   | 170   | 136,000   | 150   | 112,000   | 130   |   |       |   |       |   |       |
| 283    | 8000             | 5.11             | 195,000   | 220   | 186,000   | 210   | 166,000   | 200   | 144,000   | 180   | 98,800  | 140   |   |       |   |       |
| 301    | 8500             | 5.76             | 220,000   | 270   | 212,000   | 270   | 193,000   | 250   | 170,000   | 230   | 132,000   | 195   |   |       |   |       |
| 319    | 9000             | 6.46             | 242,000   | 330   | 234,000   | 330   | 218,000   | 310   | 202,000   | 300   | 164,000   | 260   | 125,000   | 220   |   |       |
| 336    | 9500             | 7.20             | 264,000   | 400   | 256,000   | 400   | 244,000   | 380   | 228,000   | 360   | 194,000   | 330   | 158,000   | 290   | 119,000   | 240   |
| 354    | 10000            | 7.98             | 284,000   | 480   | 278,000   | 470   | 266,000   | 460   | 252,000   | 440   | 222,000   | 400   | 189,000   | 360   | 153,000   | 320   |

Double Inlet

## 160" Steel Plate Fan—Design 1

Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances.

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.<br>Static Pressure<br>1/2" Water<br>.0722 ozs. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure<br>3/4" Water<br>.145 ozs. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure<br>1" Water<br>.217 ozs. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure<br>1 1/4" Water<br>.289 ozs. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure<br>1 1/2" Water<br>.361 ozs. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure<br>2" Water<br>.434 ozs. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure<br>2 1/2" Water<br>.506 ozs. per sq. inch | H. P. |
|--------|------------------|------------------|---|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|
| 56     | 1400             | 0.157            | 19,700  | 0.77  |  |       |  |       |  |       |  |       |  |       |  |       |
| 64     | 1600             | 0.205            | 29,000  | 1.35  |  |       |  |       |  |       |  |       |  |       |  |       |
| 72     | 1800             | 0.259            | 36,800  | 2.1   | 18,300   | 1.3   |  |       |  |       |  |       |  |       |  |       |
| 79     | 2000             | 0.320            | 44,000  | 3.0   | 29,000   | 2.1   |  |       |  |       |  |       |  |       |  |       |
| 87     | 2200             | 0.387            | 50,600  | 4.2   | 38,400   | 3.4   | 22,200   | 2.4   |  |       |  |       |  |       |  |       |
| 95     | 2400             | 0.460            | 56,400  | 5.5   | 46,400   | 4.7   | 33,000   | 3.8   |  |       |  |       |  |       |  |       |
| 103    | 2600             | 0.510            | 62,200  | 7.2   | 54,000   | 6.3   | 42,400   | 5.4   | 29,000   | 4.6   |  |       |  |       |  |       |
| 110    | 2800             | 0.626            | 67,800  | 9.1   | 61,200   | 8.2   | 51,200   | 7.3   | 38,400   | 6.1   |  |       |  |       |  |       |
| 119    | 3000             | 0.718            | 73,400  | 11.0  | 68,000   | 10.5  | 59,400   | 9.3   | 48,800   | 8.2   | 37,400   | 6.9   |  |       |  |       |
| 127    | 3200             | 0.816            | 78,600  | 13.0  | 71,200   | 13    | 66,600   | 12.0  | 57,800   | 10.5  | 47,100   | 9.4   | 36,000   | 7.8   |  |       |
| 135    | 3400             | 0.922            | 84,200  | 16.5  | 80,000   | 16    | 74,000   | 15.0  | 66,200   | 13.5  | 56,800   | 12.0  | 45,000   | 10.5  | 35,600   | 9.0   |
| 143    | 3600             | 1.03             | 89,600  | 20    | 85,200   | 19    | 80,400   | 17.5  | 73,600   | 16.5  | 64,600   | 15.5  | 55,600   | 14    | 46,800   | 12.5  |
| 151    | 3800             | 1.15             | 95,000  | 24    | 91,600   | 23    | 87,000   | 21    | 80,600   | 20    | 73,600   | 19    | 65,200   | 17    | 56,600   | 16    |
| 159    | 4000             | 1.28             | 100,000   | 28    |  |       | 93,400   | 25    | 88,000   | 24    | 81,600   | 23    | 74,400   | 21    | 66,400   | 20    |
| 167    | 4200             | 1.41             | 106,000   | 32    |  |       | 98,200   | 30    | 94,600   | 28    | 89,400   | 26    | 82,200   | 26    | 75,200   | 24    |
| 175    | 4400             | 1.54             | 111,000   | 37    |  |       | 105,000  | 34    | 101,000  | 33    | 96,400   | 32    | 90,000   | 30    | 83,000   | 29    |
| 183    | 4600             | 1.69             | 116,000   | 42    |  |       | 111,000  | 40    | 108,000  | 39    | 103,000  | 37    | 97,000   | 35    | 90,800   | 34    |
| 191    | 4800             | 1.84             | 121,000   | 48    |  |       | 116,000  | 46    | 113,000  | 44    | 109,000  | 43    | 104,000  | 41    | 99,000   | 39    |
| 199    | 5000             | 2.00             | 126,000   | 54    |  |       |  |       | 119,000  | 50    | 115,200  | 49    | 111,000  | 47    | 106,000  | 45    |
| 209    | 5250             | 2.20             | 133,000   | 64    |  |       |  |       | 126,000  | 58    | 123,000  | 58    | 119,000  | 56    | 115,000  | 51    |
| 219    | 5500             | 2.42             | 139,000   | 74    |  |       |  |       | 133,000  | 68    | 131,000  | 68    | 127,000  | 66    | 123,000  | 64    |
| 229    | 5750             | 2.54             | 145,000   | 80    |  |       |  |       |  |       | 137,000  | 74    | 134,000  | 72    | 130,000  | 70    |
| 239    | 6000             | 2.87             | 153,000   | 94    |  |       |  |       |  |       | 143,000  | 88    | 142,000  | 88    | 139,000  | 84    |
| 249    | 6250             | 3.12             | 159,000   | 110   |  |       |  |       |  |       |  |       | 149,000  | 100   | 145,000  | 98    |
| 258    | 6500             | 3.38             | 165,000   | 120   |  |       |  |       |  |       |  |       | 157,000  | 114   | 154,000  | 110   |
| 268    | 6750             | 3.63             | 171,000   | 135   |  |       |  |       |  |       |  |       |  |       | 161,000  | 125   |
| 278    | 7000             | 3.91             | 178,000   | 150   |  |       |  |       |  |       |  |       |  |       | 168,000  | 140   |
| 298    | 7500             | 4.50             | 190,000   | 190   |  |       |  |       |  |       |  |       |  |       |  |       |

| R.P.M. | Tip Speed<br>F.P.M. | S.N.D.<br>in<br>inches | Static Pressure<br>1" Water<br>.578 ozs. per<br>sq. inch |      | Static Pressure<br>1 1/4" Water<br>.723 ozs. per<br>sq. inch |      | Static Pressure<br>1 1/2" Water<br>.878 ozs. per<br>sq. inch |     | Static Pressure<br>1 3/4" Water<br>1.01 ozs. per<br>sq. inch |     | Static Pressure<br>2" Water<br>1.16 ozs. per<br>sq. inch |     | Static Pressure<br>2 1/4" Water<br>1.30 ozs. per<br>sq. inch |     | Static Pressure<br>2 1/2" Water<br>1.45 ozs. per<br>sq. inch |     |
|--------|---------------------|------------------------|--|------|--|------|--|-----|--|-----|--|-----|--|-----|--|-----|
| 143    | 3600                | 1.03                   | 36,400   | 10.5 |  |      |  |     |  |     |  |     |  |     |  |     |
| 151    | 3800                | 1.15                   | 47,200   | 14   |  |      |  |     |  |     |  |     |  |     |  |     |
| 159    | 4000                | 1.28                   | 57,800   | 18   | 39,800   | 15.5 |  |     |  |     |  |     |  |     |  |     |
| 167    | 4200                | 1.41                   | 67,200   | 22   | 50,600   | 18.5 |  |     |  |     |  |     |  |     |  |     |
| 175    | 4400                | 1.54                   | 76,000   | 27   | 60,400   | 23   | 43,800   | 19  |  |     |  |     |  |     |  |     |
| 183    | 4600                | 1.69                   | 85,200   | 32   | 70,400   | 29   | 55,200   | 24  |  |     |  |     |  |     |  |     |
| 191    | 4800                | 1.84                   | 93,000   | 38   | 80,000   | 34   | 65,800   | 30  | 50,200   | 25  |  |     |  |     |  |     |
| 199    | 5000                | 2.00                   | 101,000  | 44   | 89,000   | 40   | 75,600   | 37  | 61,200   | 32  |  |     |  |     |  |     |
| 209    | 5250                | 2.20                   | 110,000  | 52   | 99,400   | 49   | 87,400   | 45  | 74,000   | 40  | 60,400   | 35  |  |     |  |     |
| 219    | 5500                | 2.42                   | 119,000  | 62   | 109,000  | 58   | 98,200   | 54  | 86,000   | 50  | 73,800   | 45  | 60,800   | 40  |  |     |
| 229    | 5750                | 2.54                   | 126,000  | 68   | 117,000  | 66   | 108,000  | 62  | 98,200   | 58  | 86,400   | 54  | 69,400   | 48  |  |     |
| 239    | 6000                | 2.87                   | 135,000  | 82   | 128,000  | 78   | 118,000  | 74  | 108,000  | 70  | 97,800   | 66  | 86,400   | 62  | 74,000   | 56  |
| 249    | 6250                | 3.12                   | 144,000  | 96   | 136,000  | 90   | 128,000  | 86  | 118,000  | 82  | 110,000  | 78  | 98,800   | 74  | 87,000   | 68  |
| 258    | 6500                | 3.38                   | 151,000  | 110  | 145,000  | 105  | 136,000  | 100 | 129,000  | 96  | 121,000  | 90  | 110,000  | 86  | 100,000  | 82  |
| 268    | 6750                | 3.63                   | 159,000  | 125  | 153,000  | 120  | 146,000  | 110 | 138,000  | 110 | 130,000  | 105 | 121,000  | 100 | 112,000  | 96  |
| 278    | 7000                | 3.91                   | 168,000  | 140  | 161,000  | 130  | 154,000  | 125 | 147,000  | 125 | 140,000  | 120 | 132,000  | 115 | 122,000  | 110 |
| 298    | 7500                | 4.50                   | 180,200  | 175  | 178,000  | 170  | 171,000  | 165 | 167,000  | 160 | 158,000  | 150 | 151,000  | 150 | 141,000  | 145 |
| 318    | 8000                | 5.11                   |  |      | 190,800  | 210  | 186,000  | 200 | 181,000  | 195 | 176,000  | 190 | 169,000  | 185 | 173,000  | 180 |
| 338    | 8500                | 5.76                   |  |      | 204,000  | 250  | 202,000  | 250 | 196,000  | 240 | 192,000  | 240 | 189,000  | 230 | 181,000  | 220 |
| 358    | 9000                | 6.46                   |  |      | 220,000  | 300  | 216,000  | 300 | 212,000  | 290 | 208,000  | 290 | 204,000  | 280 | 198,000  | 270 |
| 378    | 9500                | 7.20                   |  |      |  |      | 230,000  | 350 | 226,000  | 350 | 222,000  | 340 | 218,000  | 340 | 216,000  | 330 |
| 398    | 10000               | 7.98                   |  |      |  |      | 244,000  | 420 | 242,000  | 410 | 238,000  | 400 | 234,000  | 400 | 230,000  | 390 |

| R.P.M. | Tip<br>Speed<br>F.P.M. | S.N.D.<br>in<br>inches | Static Pressure<br>2 3/4" Water<br>1.59 ozs. per<br>sq. inch |     | Static Pressure<br>3" Water<br>1.73 ozs. per<br>sq. inch |     | Static Pressure<br>3 1/4" Water<br>2.02 ozs. per<br>sq. inch |     | Static Pressure<br>3 1/2" Water<br>2.31 ozs. per<br>sq. inch |     | Static Pressure<br>4" Water<br>2.69 ozs. per<br>sq. inch |     | Static Pressure<br>4 1/4" Water<br>3.47 ozs. per<br>sq. inch |     | Static Pressure<br>4 1/2" Water<br>4.05 ozs. per<br>sq. inch |     |
|--------|------------------------|------------------------|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|
| 249    | 6250                   | 3 12                   | 76,000   | 62  |  |     |  |     |  |     |  |     |  |     |  |     |
| 258    | 6500                   | 3 38                   | 89,000   | 76  | 78,000   | 68  |  |     |  |     |  |     |  |     |  |     |
| 268    | 6750                   | 3 63                   | 101,000  | 88  | 91,000   | 84  |  |     |  |     |  |     |  |     |  |     |
| 278    | 7000                   | 3 91                   | 113,000  | 105 | 104,000  | 100 | 83,000   | 84  |  |     |  |     |  |     |  |     |
| 298    | 7500                   | 4 50                   | 136,000  | 140 | 127,000  | 135 | 108,000  | 120 | 88,800   | 105 |  |     |  |     |  |     |
| 318    | 8000                   | 5 11                   | 157,000  | 175 | 149,000  | 170 | 133,000  | 160 | 115,000  | 145 | 79,000   | 110 |  |     |  |     |
| 338    | 8500                   | 5 76                   | 175,000  | 220 | 169,000  | 210 | 154,000  | 200 | 139,000  | 190 | 106,000  | 155 |  |     |  |     |
| 358    | 9000                   | 6 46                   | 193,000  | 270 | 187,000  | 260 | 175,000  | 250 | 161,000  | 240 | 131,000  | 210 |  |     |  |     |
| 378    | 9500                   | 7 20                   | 210,000  | 320 | 204,000  | 320 | 195,000  | 300 | 182,000  | 290 | 155,000  | 260 | 99,800   | 170 |  |     |
| 398    | 10000                  | 7 98                   | 226,000  | 390 | 222,000  | 380 | 212,000  | 360 | 202,000  | 350 | 178,000  | 320 | 126,000  | 230 | 95,200   | 190 |
|        |                        |                        |  |     |  |     |  |     |  |     |  |     | 151,000  | 280 | 122,000  | 250 |

Double Inlet

**220" Steel Plate Fan—Design 1**

Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                     | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. |
|--------|------------------|------------------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|
|        |                  |                  | Static Pressure 1/2" Water .0722 ozs. per sq. inch  |       | Static Pressure 1/2" Water .145 ozs. per sq. inch   |       | Static Pressure 1/2" Water .217 ozs. per sq. inch   |       | Static Pressure 1/2" Water .289 ozs. per sq. inch   |       | Static Pressure 1/2" Water .361 ozs. per sq. inch |       | Static Pressure 1/2" Water .434 ozs. per sq. inch   |       | Static Pressure 1/2" Water .506 ozs. per sq. inch   |       |
| 40     | 1400             | 0 157            | 40,800  | 1 6   |   |       |   |       |   |       |   |       |   |       |   |       |
| 46     | 1600             | 0 205            | 60,000  | 2 8   |   |       |   |       |   |       |   |       |   |       |   |       |
| 52     | 1800             | 0 259            | 76,400  | 4 3   | 38,000  | 2 7   |   |       |   |       |   |       |   |       |   |       |
| 58     | 2000             | 0 320            | 91,200  | 6 2   | 60,000  | 4 1   |   |       |   |       |   |       |   |       |   |       |
| 64     | 2200             | 0 387            | 105,000   | 8 7   | 79,600  | 7 1   | 46,000  | 4 9   |   |       |   |       |   |       |   |       |
| 69     | 2400             | 0 460            | 117,000   | 11 5  | 96,400  | 9 8   | 68,400  | 6 9   |   |       |   |       |   |       |   |       |
| 75     | 2600             | 0 510            | 129,000   | 15    | 112,000   | 13    | 88,000  | 11 0  | 60,000  | 9 6   |   |       |   |       |   |       |
| 81     | 2800             | 0 626            | 141,000   | 19    | 127,000   | 17    | 106,000   | 15 0  | 81,800  | 12 5  |   |       |   |       |   |       |
| 87     | 3000             | 0 718            | 152,000   | 23    | 141,000   | 22    | 123,000   | 19 5  | 101,000   | 17    | 77,600  | 14 5  |   |       |   |       |
| 93     | 3200             | 0 816            | 163,000   | 29    | 154,000   | 27    | 138,000   | 24    | 120,000   | 22    | 98,200  | 19 5  | 74,600  | 16    |   |       |
| 98     | 3400             | 0 922            | 175,000   | 35    | 166,000   | 33    | 154,000   | 30    | 137,000   | 28    | 118,000   | 25    | 94,600  | 22    | 74,200  | 18 5  |
| 104    | 3600             | 1 03             | 186,000   | 45    | 177,000   | 39    | 177,000   | 37    | 153,000   | 34    | 136,000   | 32    | 115,000   | 28    | 97,000  | 26    |
| 110    | 3800             | 1 15             | 197,000   | 49    | 190,000   | 47    | 181,000   | 44    | 167,000   | 41    | 153,000   | 39    | 135,000   | 36    | 117,000   | 33    |
| 116    | 4000             | 1 28             | 208,000   | 58    |   |       | 194,000   | 52    | 183,000   | 50    | 169,000   | 47    | 155,600   | 44    | 138,000   | 41    |
| 121    | 4200             | 1 41             | 220,000   | 68    |   |       | 206,000   | 62    | 197,000   | 60    | 186,000   | 56    | 171,000   | 54    | 156,000   | 50    |
| 127    | 4400             | 1 54             | 230,000   | 76    |   |       | 218,000   | 72    | 210,000   | 68    | 200,000   | 66    | 187,000   | 62    | 172,000   | 60    |
| 133    | 4600             | 1 69             | 242,000   | 88    |   |       | 230,000   | 82    | 224,000   | 82    | 214,000   | 78    | 202,000   | 74    | 191,000   | 70    |
| 139    | 4800             | 1 81             | 252,000   | 100   |   |       | 242,000   | 94    | 236,000   | 92    | 226,000   | 88    | 216,000   | 86    | 206,000   | 82    |
| 145    | 5000             | 2 00             | 262,000   | 110   |   |       |   |       | 246,000   | 105   | 240,000   | 105   | 232,000   | 98    | 220,000   | 94    |
| 152    | 5250             | 2 20             | 276,000   | 130   |   |       |   |       | 262,000   | 125   | 254,000   | 120   | 248,000   | 115   | 238,000   | 100   |
| 159    | 5500             | 2 42             | 290,000   | 150   |   |       |   |       | 276,000   | 145   | 272,000   | 140   | 264,000   | 135   | 256,000   | 130   |
| 166    | 5750             | 2 54             | 302,000   | 165   |   |       |   |       |   |       | 284,000   | 155   | 278,000   | 150   | 270,000   | 145   |
| 174    | 6000             | 2 87             | 316,000   | 195   |   |       |   |       |   |       | 298,000   | 185   | 294,000   | 180   | 288,000   | 175   |
| 181    | 6250             | 3 12             | 330,000   | 220   |   |       |   |       |   |       |   |       | 310,000   | 210   | 302,000   | 200   |
| 188    | 6500             | 3 38             | 342,000   | 250   |   |       |   |       |   |       |   |       | 326,000   | 210   | 320,000   | 230   |
| 195    | 6750             | 3 63             | 356,000   | 340   |   |       |   |       |   |       |   |       |   |       | 334,000   | 260   |
| 202    | 7000             | 3 91             | 370,000   | 310   |   |       |   |       |   |       |   |       |   |       | 350,000   | 290   |
| 217    | 7500             | 4 50             | 396,000   | 390   |   |       |   |       |   |       |   |       |   |       |   |       |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 ozs. per sq. inch     |       | Static Pressure 1 1/2" Water .723 ozs. per sq. inch |       | Static Pressure 1 1/2" Water .878 ozs. per sq. inch |       | Static Pressure 1 3/4" Water 1.01 ozs. per sq. inch |       | Static Pressure 2" Water 1.16 ozs. per sq. inch   |       | Static Pressure 2 1/2" Water 1.30 ozs. per sq. inch |       | Static Pressure 2 1/2" Water 1.45 ozs. per sq. inch |       |
| 104    | 3600             | 1 03             | 75,600  | 22    |   |       |   |       |   |       |   |       |   |       |   |       |
| 110    | 3800             | 1 15             | 98,200  | 29    |   |       |   |       |   |       |   |       |   |       |   |       |
| 116    | 4000             | 1 28             | 120,000   | 38    | 82,000  | 32    |   |       |   |       |   |       |   |       |   |       |
| 121    | 4200             | 1 41             | 139,000   | 46    | 105,000   | 39    |   |       |   |       |   |       |   |       |   |       |
| 127    | 4400             | 1 54             | 158,000   | 56    | 125,000   | 48    | 91,200  | 39    |   |       |   |       |   |       |   |       |
| 133    | 4600             | 1 69             | 177,000   | 66    | 140,000   | 60    | 114,000   | 53    |   |       |   |       |   |       |   |       |
| 139    | 4800             | 1 81             | 193,000   | 78    | 166,000   | 72    | 137,000   | 64    | 104,000   | 52    |   |       |   |       |   |       |
| 145    | 5000             | 2 00             | 210,000   | 92    | 185,000   | 84    | 157,000   | 76    | 127,000   | 66    |   |       |   |       |   |       |
| 152    | 5250             | 2 20             | 228,000   | 110   | 206,000   | 100   | 182,000   | 94    | 154,000   | 84    | 125,000   | 72    |   |       |   |       |
| 159    | 5500             | 2 42             | 246,000   | 130   | 228,000   | 120   | 204,000   | 110   | 179,000   | 105   | 153,000   | 94    | 126,000   | 82    |   |       |
| 166    | 5750             | 2 54             | 262,000   | 140   | 244,000   | 135   | 224,000   | 130   | 204,000   | 120   | 179,000   | 110   | 144,000   | 100   |   |       |
| 174    | 6000             | 2 87             | 282,000   | 170   | 264,000   | 165   | 246,000   | 155   | 226,000   | 150   | 202,000   | 135   | 179,000   | 130   |   |       |
| 181    | 6250             | 3 12             | 298,000   | 200   | 284,000   | 190   | 266,000   | 180   | 248,000   | 170   | 228,000   | 160   | 204,000   | 150   | 155,000   | 115   |
| 188    | 6500             | 3 38             | 314,000   | 230   | 302,000   | 220   | 284,000   | 210   | 270,000   | 200   | 250,000   | 190   | 228,000   | 180   | 182,000   | 140   |
| 195    | 6750             | 3 63             | 330,000   | 260   | 318,000   | 250   | 302,000   | 230   | 288,000   | 230   | 270,000   | 220   | 252,000   | 210   | 208,000   | 170   |
| 202    | 7000             | 3 91             | 346,000   | 290   | 334,000   | 280   | 320,000   | 270   | 306,000   | 260   | 290,000   | 250   | 274,000   | 240   | 232,000   | 195   |
| 217    | 7500             | 4 50             | 374,000   | 360   | 366,000   | 350   | 354,000   | 340   | 342,000   | 330   | 330,000   | 320   | 314,000   | 310   | 254,000   | 230   |
| 231    | 8000             | 5 11             |   |       | 396,000   | 430   | 388,000   | 420   | 376,000   | 410   | 366,000   | 400   | 352,000   | 390   | 300,000   | 300   |
| 246    | 8500             | 5 76             |   |       | 426,000   | 520   | 418,000   | 510   | 406,000   | 500   | 400,000   | 490   | 388,000   | 480   | 340,000   | 380   |
| 260    | 9000             | 6 46             |   |       | 454,000   | 630   | 446,000   | 620   | 440,000   | 610   | 432,000   | 590   | 422,000   | 580   | 376,000   | 460   |
| 274    | 9500             | 7 20             |   |       |   |       | 478,000   | 740   | 470,000   | 720   | 462,000   | 710   | 454,000   | 700   | 412,000   | 570   |
| 289    | 10000            | 7 98             |   |       |   |       | 508,000   | 870   | 500,000   | 850   | 492,000   | 840   | 486,000   | 830   | 446,000   | 680   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 2 3/4" Water 1.59 ozs. per sq. inch |       | Static Pressure 3" Water 1.73 ozs. per sq. inch     |       | Static Pressure 3 1/2" Water 2.02 ozs. per sq. inch |       | Static Pressure 4" Water 2.31 ozs. per sq. inch     |       | Static Pressure 5" Water 2.89 ozs. per sq. inch   |       | Static Pressure 6" Water 3.47 ozs. per sq. inch     |       | Static Pressure 7" Water 4.05 ozs. per sq. inch     |       |
| 181    | 6250             | 3 12             | 158,000   | 130   |   |       |   |       |   |       |   |       |   |       |   |       |
| 188    | 6500             | 3 38             | 195,000   | 155   | 162,000   | 145   |   |       |   |       |   |       |   |       |   |       |
| 195    | 6750             | 3 63             | 210,000   | 185   | 189,000   | 170   |   |       |   |       |   |       |   |       |   |       |
| 202    | 7000             | 3 91             | 236,000   | 220   | 216,000   | 210   | 173,000   | 175   |   |       |   |       |   |       |   |       |
| 217    | 7500             | 4 50             | 282,000   | 290   | 264,000   | 280   | 226,000   | 250   | 186,000   | 220   |   |       |   |       |   |       |
| 231    | 8000             | 5 11             | 324,000   | 370   | 308,000   | 360   | 276,000   | 330   | 240,000   | 300   | 164,000   | 230   |   |       |   |       |
| 246    | 8500             | 5 76             | 366,000   | 450   | 350,000   | 440   | 320,000   | 420   | 288,000   | 390   | 220,000   | 330   |   |       |   |       |
| 260    | 9000             | 6 46             | 402,000   | 560   | 388,000   | 540   | 364,000   | 520   | 334,000   | 490   | 272,000   | 430   | 208,000   | 360   |   |       |
| 274    | 9500             | 7 20             | 436,000   | 670   | 424,000   | 660   | 404,000   | 630   | 378,000   | 600   | 322,000   | 540   | 262,000   | 480   | 198,000   | 390   |
| 289    | 10000            | 7 98             | 470,000   | 800   | 460,000   | 780   | 440,000   | 750   | 418,000   | 730   | 370,000   | 670   | 314,000   | 600   | 254,000   | 530   |

Double Inlet

## 160" Steel Plate Fan—Design 1

Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances.

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.<br>Static Pressure<br>1/2" Water<br>.0722 ozs. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure<br>3/4" Water<br>.145 ozs. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure<br>1" Water<br>.217 ozs. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure<br>1 1/4" Water<br>.289 ozs. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure<br>1 1/2" Water<br>.361 ozs. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure<br>2" Water<br>.434 ozs. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure<br>2 1/2" Water<br>.506 ozs. per sq. inch | H. P. |
|--------|------------------|------------------|---|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|
| 56     | 1400             | 0.157            | 19,700  | 0.77  |  |       |  |       |  |       |  |       |  |       |  |       |
| 64     | 1600             | 0.205            | 29,000  | 1.35  |  |       |  |       |  |       |  |       |  |       |  |       |
| 72     | 1800             | 0.259            | 36,800  | 2.1   | 18,300   | 1.3   |  |       |  |       |  |       |  |       |  |       |
| 79     | 2000             | 0.320            | 44,000  | 3.0   | 29,000   | 2.1   |  |       |  |       |  |       |  |       |  |       |
| 87     | 2200             | 0.387            | 50,600  | 4.2   | 38,400   | 3.4   | 22,200   | 2.4   |  |       |  |       |  |       |  |       |
| 95     | 2400             | 0.460            | 56,400  | 5.5   | 46,400   | 4.7   | 33,000   | 3.8   |  |       |  |       |  |       |  |       |
| 103    | 2600             | 0.510            | 62,200  | 7.2   | 54,000   | 6.3   | 42,400   | 5.4   | 29,000   | 4.6   |  |       |  |       |  |       |
| 110    | 2800             | 0.626            | 67,800  | 9.1   | 61,200   | 8.2   | 51,200   | 7.3   | 38,400   | 6.1   |  |       |  |       |  |       |
| 119    | 3000             | 0.718            | 73,400  | 11.0  | 68,000   | 10.5  | 59,400   | 9.3   | 48,800   | 8.2   | 37,400   | 6.9   |  |       |  |       |
| 127    | 3200             | 0.816            | 78,600  | 13.0  | 71,200   | 13    | 66,600   | 12.0  | 57,800   | 10.5  | 47,100   | 9.4   | 36,000   | 7.8   |  |       |
| 135    | 3400             | 0.922            | 84,200  | 16.5  | 80,000   | 16    | 74,000   | 15.0  | 66,200   | 13.5  | 56,800   | 12.0  | 45,000   | 10.5  | 35,600   | 9.0   |
| 143    | 3600             | 1.03             | 89,600  | 20    | 85,200   | 19    | 80,400   | 17.5  | 73,600   | 16.5  | 64,600   | 15.5  | 55,600   | 14    | 46,800   | 12.5  |
| 151    | 3800             | 1.15             | 95,000  | 24    | 91,600   | 23    | 87,000   | 21    | 80,600   | 20    | 73,600   | 19    | 65,200   | 17    | 56,600   | 16    |
| 159    | 4000             | 1.28             | 100,000   | 28    |  |       | 93,400   | 25    | 88,000   | 24    | 81,600   | 23    | 74,400   | 21    | 66,400   | 20    |
| 167    | 4200             | 1.41             | 106,000   | 32    |  |       | 98,200   | 30    | 94,600   | 28    | 89,400   | 26    | 82,200   | 26    | 75,200   | 24    |
| 175    | 4400             | 1.54             | 111,000   | 37    |  |       | 105,000  | 34    | 101,000  | 33    | 96,400   | 32    | 90,000   | 30    | 83,000   | 29    |
| 183    | 4600             | 1.69             | 116,000   | 42    |  |       | 111,000  | 40    | 108,000  | 39    | 103,000  | 37    | 97,000   | 35    | 90,800   | 34    |
| 191    | 4800             | 1.84             | 121,000   | 48    |  |       | 116,000  | 46    | 113,000  | 44    | 109,000  | 43    | 104,000  | 41    | 99,000   | 39    |
| 199    | 5000             | 2.00             | 126,000   | 51    |  |       |  |       | 119,000  | 50    | 115,200  | 49    | 111,000  | 47    | 106,000  | 45    |
| 209    | 5250             | 2.20             | 133,000   | 64    |  |       |  |       | 126,000  | 58    | 123,000  | 58    | 119,000  | 56    | 115,000  | 51    |
| 219    | 5500             | 2.42             | 139,000   | 74    |  |       |  |       | 133,000  | 68    | 131,000  | 68    | 127,000  | 66    | 123,000  | 64    |
| 229    | 5750             | 2.54             | 145,000   | 80    |  |       |  |       |  |       | 137,000  | 74    | 134,000  | 72    | 130,000  | 70    |
| 239    | 6000             | 2.87             | 153,000   | 91    |  |       |  |       |  |       | 143,000  | 88    | 142,000  | 88    | 139,000  | 84    |
| 249    | 6250             | 3.12             | 159,000   | 110   |  |       |  |       |  |       |  |       | 149,000  | 100   | 145,000  | 98    |
| 258    | 6500             | 3.38             | 165,000   | 120   |  |       |  |       |  |       |  |       | 157,000  | 114   | 154,000  | 110   |
| 268    | 6750             | 3.63             | 171,000   | 135   |  |       |  |       |  |       |  |       |  |       | 161,000  | 125   |
| 278    | 7000             | 3.91             | 178,000   | 150   |  |       |  |       |  |       |  |       |  |       | 168,000  | 140   |
| 298    | 7500             | 4.50             | 190,000   | 190   |  |       |  |       |  |       |  |       |  |       |  |       |

| R.P.M. | Tip Speed<br>F.P.M. | S.N.D.<br>in<br>inches | Static Pressure<br>1" Water<br>.578 ozs. per<br>sq. inch |      | Static Pressure<br>1 1/4" Water<br>.723 ozs. per<br>sq. inch |      | Static Pressure<br>1 1/2" Water<br>.878 ozs. per<br>sq. inch |     | Static Pressure<br>1 3/4" Water<br>1.01 ozs. per<br>sq. inch |     | Static Pressure<br>2" Water<br>1.16 ozs. per<br>sq. inch |     | Static Pressure<br>2 1/4" Water<br>1.30 ozs. per<br>sq. inch |     | Static Pressure<br>2 1/2" Water<br>1.45 ozs. per<br>sq. inch |     |
|--------|---------------------|------------------------|--|------|--|------|--|-----|--|-----|--|-----|--|-----|--|-----|
| 143    | 3600                | 1 03                   | 36,400   | 10.5 |  |      |  |     |  |     |  |     |  |     |  |     |
| 151    | 3800                | 1 15                   | 47,200   | 14   |  |      |  |     |  |     |  |     |  |     |  |     |
| 159    | 4000                | 1 28                   | 57,800   | 18   | 39,800   | 15.5 |  |     |  |     |  |     |  |     |  |     |
| 167    | 4200                | 1 41                   | 67,200   | 22   | 50,600   | 18.5 |  |     |  |     |  |     |  |     |  |     |
| 175    | 4400                | 1 54                   | 76,000   | 27   | 60,400   | 23   | 43,800   | 19  |  |     |  |     |  |     |  |     |
| 183    | 4600                | 1 69                   | 85,200   | 32   | 70,400   | 29   | 55,200   | 24  |  |     |  |     |  |     |  |     |
| 191    | 4800                | 1 84                   | 93,000   | 38   | 80,000   | 34   | 65,800   | 30  | 50,200   | 25  |  |     |  |     |  |     |
| 199    | 5000                | 2 00                   | 101,000  | 44   | 89,000   | 40   | 75,600   | 37  | 61,200   | 32  |  |     |  |     |  |     |
| 209    | 5250                | 2 20                   | 110,000  | 52   | 99,400   | 49   | 87,400   | 45  | 74,000   | 40  | 60,400   | 35  |  |     |  |     |
| 219    | 5500                | 2 42                   | 119,000  | 62   | 109,000  | 58   | 98,200   | 54  | 86,000   | 50  | 73,800   | 45  | 60,800   | 40  |  |     |
| 229    | 5750                | 2 54                   | 126,000  | 68   | 117,000  | 66   | 108,000  | 62  | 98,200   | 58  | 86,400   | 54  | 69,400   | 48  |  |     |
| 239    | 6000                | 2 87                   | 135,000  | 82   | 128,000  | 78   | 118,000  | 74  | 108,000  | 70  | 97,800   | 66  | 86,400   | 62  | 74,000   | 56  |
| 249    | 6250                | 3 12                   | 144,000  | 96   | 136,000  | 90   | 128,000  | 86  | 118,000  | 82  | 110,000  | 78  | 98,800   | 74  | 87,000   | 68  |
| 258    | 6500                | 3 38                   | 151,000  | 110  | 145,000  | 105  | 136,000  | 100 | 129,000  | 96  | 121,000  | 90  | 110,000  | 86  | 100,000  | 82  |
| 268    | 6750                | 3 63                   | 159,000  | 125  | 153,000  | 120  | 146,000  | 110 | 138,000  | 110 | 130,000  | 105 | 121,000  | 100 | 112,000  | 96  |
| 278    | 7000                | 3 91                   | 168,000  | 140  | 161,000  | 130  | 154,000  | 120 | 147,000  | 125 | 140,000  | 120 | 132,000  | 115 | 122,000  | 110 |
| 298    | 7500                | 4 50                   | 180,200  | 175  | 178,000  | 170  | 171,000  | 165 | 167,000  | 160 | 158,000  | 150 | 151,000  | 150 | 141,000  | 145 |
| 318    | 8000                | 5 11                   |  |      | 190,800  | 210  | 186,000  | 200 | 181,000  | 195 | 176,000  | 190 | 169,000  | 185 | 173,000  | 180 |
| 338    | 8500                | 5 76                   |  |      | 204,000  | 250  | 202,000  | 250 | 196,000  | 240 | 192,000  | 240 | 189,000  | 230 | 181,000  | 220 |
| 358    | 9000                | 6 16                   |  |      | 220,000  | 300  | 216,000  | 300 | 212,000  | 290 | 208,000  | 290 | 204,000  | 280 | 198,000  | 270 |
| 378    | 9500                | 7 20                   |  |      |  |      | 230,000  | 350 | 226,000  | 350 | 222,000  | 340 | 218,000  | 340 | 216,000  | 330 |
| 398    | 10000               | 7 98                   |  |      |  |      | 244,000  | 420 | 242,000  | 410 | 238,000  | 400 | 234,000  | 400 | 230,000  | 390 |

| R.P.M. | Tip<br>Speed<br>F.P.M. | S.N.D.<br>in<br>inches | Static Pressure<br>2 3/4" Water<br>1.59 ozs. per<br>sq. inch |     | Static Pressure<br>3" Water<br>1.73 ozs. per<br>sq. inch |     | Static Pressure<br>3 1/4" Water<br>2.02 ozs. per<br>sq. inch |     | Static Pressure<br>3 1/2" Water<br>2.31 ozs. per<br>sq. inch |     | Static Pressure<br>4" Water<br>2.69 ozs. per<br>sq. inch |     | Static Pressure<br>4 1/4" Water<br>3.47 ozs. per<br>sq. inch |     | Static Pressure<br>4 1/2" Water<br>4.05 ozs. per<br>sq. inch |     |
|--------|------------------------|------------------------|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|
| 249    | 6250                   | 3 12                   | 76,000   | 62  |  |     |  |     |  |     |  |     |  |     |  |     |
| 258    | 6500                   | 3 38                   | 89,000   | 76  | 78,000   | 68  |  |     |  |     |  |     |  |     |  |     |
| 268    | 6750                   | 3 63                   | 101,000  | 88  | 91,000   | 84  |  |     |  |     |  |     |  |     |  |     |
| 278    | 7000                   | 3 91                   | 113,000  | 105 | 104,000  | 100 | 83,000   | 84  |  |     |  |     |  |     |  |     |
| 298    | 7500                   | 4 50                   | 136,000  | 140 | 127,000  | 135 | 108,000  | 120 | 88,800   | 105 |  |     |  |     |  |     |
| 318    | 8000                   | 5 11                   | 157,000  | 175 | 149,000  | 170 | 133,000  | 160 | 115,000  | 145 | 79,000   | 110 |  |     |  |     |
| 338    | 8500                   | 5 76                   | 175,000  | 220 | 169,000  | 210 | 154,000  | 200 | 139,000  | 190 | 106,000  | 155 |  |     |  |     |
| 358    | 9000                   | 6 46                   | 193,000  | 270 | 187,000  | 260 | 175,000  | 250 | 161,000  | 240 | 131,000  | 210 |  |     |  |     |
| 378    | 9500                   | 7 20                   | 210,000  | 320 | 204,000  | 320 | 195,000  | 300 | 182,000  | 290 | 155,000  | 260 | 99,800   | 170 |  |     |
| 398    | 10000                  | 7 98                   | 226,000  | 390 | 222,000  | 380 | 212,000  | 360 | 202,000  | 350 | 178,000  | 320 | 126,000  | 230 | 95,200   | 190 |
|        |                        |                        |  |     |  |     |  |     |  |     |  |     | 151,000  | 280 | 122,000  | 250 |

Double Inlet

**260" Steel Plate Fan—Design 1**

Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances.

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M. H. P. Static Pressure 1/4" Water .0722 oza. per sq. inch | Volume C.F.M. H. P. Static Pressure 1/4" Water .145 oza. per sq. inch | Volume C.F.M. H. P. Static Pressure 3/8" Water .217 oza. per sq. inch | Volume C.F.M. H. P. Static Pressure 1/2" Water .289 oza. per sq. inch | Volume C.F.M. H. P. Static Pressure 5/8" Water .361 oza. per sq. inch | Volume C.F.M. H. P. Static Pressure 3/4" Water .434 oza. per sq. inch | Volume C.F.M. H. P. Static Pressure 7/8" Water .506 oza. per sq. inch |
|--------|------------------|------------------|--|---|---|---|---|---|---|
| 34     | 1400             | 0 157            | 52,800 2 1   |   |   |   |   |   |   |
| 39     | 1600             | 0 205            | 77,600 3 6   |   |   |   |   |   |   |
| 44     | 1800             | 0 259            | 98,800 5 6   | 49,000 3 5  |   |   |   |   |   |
| 49     | 2000             | 0 320            | 118,000 8  | 77,600 4 7  |   |   |   |   |   |
| 54     | 2200             | 0 387            | 136,000 11   | 103,000 9 2   | 57,600 6 4  |   |   |   |   |
| 59     | 2400             | 0 460            | 151,000 15   | 125,000 12 5  | 88,200 10 0   |   |   |   |   |
| 64     | 2600             | 0 540            | 167,000 19   | 145,000 17  | 114,000 14 5  | 77,600 12 5   |   |   |   |
| 69     | 2800             | 0 626            | 182,000 24   | 164,000 22  | 137,000 19 5  | 106,000 16 5  |   |   |   |
| 73     | 3000             | 0 718            | 197,000 30   | 182,000 28  | 159,000 25  | 131,000 22  | 103,000 18 5  |   |   |
| 78     | 3200             | 0 816            | 210,000 37   | 199,000 35  | 179,000 32  | 155,000 29  | 127,000 25  | 96,200 21   |   |
| 83     | 3400             | 0 922            | 226,000 45   | 214,000 42  | 199,000 39  | 178,000 36  | 152,000 33  | 122,000 29  | 95,800 24   |
| 88     | 3600             | 1 03             | 240,000 54   | 228,000 50  | 216,000 48  | 197,000 44  | 176,000 41  | 149,000 37  | 125,000 33  |
| 93     | 3800             | 1 15             | 254,000 64   | 246,000 60  | 231,000 58  | 216,000 54  | 197,000 50  | 175,000 46  | 151,800 42  |
| 98     | 4000             | 1 28             | 268,000 74   |   | 250,000 68  | 236,000 64  | 218,000 60  | 199,000 58  | 178,000 54  |
| 103    | 4200             | 1 41             | 284,000 86   |   | 266,000 80  | 254,000 76  | 240,000 72  | 220,000 70  | 202,000 64  |
| 108    | 4400             | 1 54             | 298,000 98   |   | 282,000 92  | 270,000 90  | 258,000 84  | 242,000 80  | 222,000 76  |
| 113    | 4600             | 1 69             | 312,000 110  |   | 298,000 110   | 288,000 105   | 278,000 100   | 260,000 94  | 246,000 92  |
| 117    | 4800             | 1 84             | 324,000 130  |   | 312,000 125   | 304,000 120   | 292,000 116   | 280,000 110   | 266,000 105   |
| 122    | 5000             | 2 00             | 340,000 145  |   |   | 318,000 136   | 310,000 132   | 298,000 130   | 284,000 120   |
| 129    | 5250             | 2 20             | 356,000 170  |   |   | 338,000 160   | 330,000 155   | 320,000 150   | 308,000 115   |
| 135    | 5500             | 2 42             | 371,000 195  |   |   | 358,000 185   | 350,000 180   | 340,000 175   | 330,000 170   |
| 141    | 5750             | 2 54             | 390,000 210  |   |   |   | 366,000 200   | 360,000 195   | 350,000 190   |
| 147    | 6000             | 2 87             | 408,000 250  |   |   |   | 381,000 240   | 382,000 230   | 374,000 230   |
| 153    | 6250             | 3 12             | 426,000 290  |   |   |   |   | 400,000 270   | 390,000 260   |
| 159    | 6500             | 3 38             | 442,000 320  |   |   |   |   | 420,000 310   | 412,000 300   |
| 165    | 6750             | 3 63             | 460,000 360  |   |   |   |   |   | 432,000 330   |
| 171    | 7000             | 3 91             | 478,000 403  |   |   |   |   |   | 452,000 380   |
| 184    | 7500             | 4 50             | 512,000 500  |   |   |   |   |   |   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 oza. per sq. inch                        | Static Pressure 1 1/4" Water .723 oza. per sq. inch                   | Static Pressure 1 1/2" Water .878 oza. per sq. inch                   | Static Pressure 1 3/4" Water 1.01 oza. per sq. inch                   | Static Pressure 2" Water 1.16 oza. per sq. inch                       | Static Pressure 2 1/4" Water 1.30 oza. per sq. inch                   | Static Pressure 2 1/2" Water 1.45 oza. per sq. inch                   |
| 88     | 3600             | 1 03             | 97,800 28  |   |   |   |   |   |   |
| 93     | 3800             | 1 15             | 127,000 38   |   |   |   |   |   |   |
| 98     | 4000             | 1 28             | 155,000 49   | 107,000 42  |   |   |   |   |   |
| 103    | 4200             | 1 41             | 180,000 60   | 136,000 50  |   |   |   |   |   |
| 108    | 4400             | 1 54             | 204,000 72   | 162,000 62  | 118,000 50  |   |   |   |   |
| 113    | 4600             | 1 69             | 228,000 86   | 180,000 70  | 148,000 66  |   |   |   |   |
| 117    | 4800             | 1 84             | 250,000 100  | 216,000 92  | 177,000 82  | 135,000 66  |   |   |   |
| 122    | 5000             | 2 00             | 270,000 120  | 238,000 110   | 204,000 98  | 165,000 86  |   |   |   |
| 129    | 5250             | 2 20             | 294,000 140  | 266,000 130   | 231,000 120   | 199,000 110   | 162,000 94  |   |   |
| 135    | 5500             | 2 42             | 318,000 165  | 294,000 155   | 264,000 145   | 230,000 130   | 198,000 120   | 163,000 110   |   |
| 141    | 5750             | 2 54             | 338,000 184  | 314,000 175   | 290,000 170   | 264,000 155   | 232,000 145   | 186,000 130   |   |
| 147    | 6000             | 2 87             | 364,000 220  | 342,000 210   | 318,000 200   | 292,000 190   | 262,000 175   | 232,000 165   | 200,000 150   |
| 153    | 6250             | 3 12             | 386,000 260  | 366,000 240   | 344,000 230   | 320,000 220   | 296,000 210   | 264,000 195   | 234,000 180   |
| 159    | 6500             | 3 38             | 406,000 290  | 390,000 280   | 366,000 270   | 348,000 260   | 324,000 240   | 296,000 230   | 268,000 220   |
| 165    | 6750             | 3 63             | 426,000 330  | 410,000 320   | 392,000 300   | 372,000 290   | 350,000 280   | 324,000 270   | 300,000 260   |
| 171    | 7000             | 3 91             | 446,000 370  | 432,000 360   | 414,000 350   | 394,000 330   | 376,000 320   | 354,000 310   | 328,000 290   |
| 184    | 7500             | 4 50             | 484,000 470  | 472,000 450   | 458,000 440   | 442,000 420   | 424,000 410   | 406,000 400   | 386,000 390   |
| 196    | 8000             | 5 11             |  | 512,000 560   | 500,000 550   | 486,000 530   | 472,000 510   | 454,000 500   | 438,000 490   |
| 208    | 8500             | 5 76             |  | 550,000 680   | 540,000 660   | 526,000 650   | 516,000 630   | 500,000 610   | 486,000 600   |
| 220    | 9000             | 6 46             |  | 588,000 820   | 578,000 800   | 568,000 780   | 558,000 770   | 546,000 750   | 532,000 730   |
| 233    | 9500             | 7 20             |  |   | 616,000 950   | 606,000 940   | 596,000 920   | 588,000 900   | 576,000 880   |
| 245    | 10000            | 7 98             |  |   | 656,000 1120  | 646,000 1090  | 636,000 1080  | 628,000 1060  | 618,000 1040  |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 2 3/4" Water 1.59 oza. per sq. inch                    | Static Pressure 3" Water 1.73 oza. per sq. inch                       | Static Pressure 3 1/2" Water 2.02 oza. per sq. inch                   | Static Pressure 4" Water 2.31 oza. per sq. inch                       | Static Pressure 5" Water 2.89 oza. per sq. inch                       | Static Pressure 6" Water 3.47 oza. per sq. inch                       | Static Pressure 7" Water 4.05 oza. per sq. inch                       |
| 153    | 6250             | 3 12             | 204,000 165  |   |   |   |   |   |   |
| 159    | 6500             | 3 38             | 238,000 200  | 208,000 185   |   |   |   |   |   |
| 165    | 6750             | 3 63             | 270,000 240  | 244,000 220   |   |   |   |   |   |
| 171    | 7000             | 3 91             | 304,000 280  | 280,000 270   | 222,000 230   |   |   |   |   |
| 184    | 7500             | 4 50             | 344,000 370  | 342,000 360   | 292,000 320   | 240,000 280   |   |   |   |
| 196    | 8000             | 5 11             | 420,000 470  | 400,000 460   | 356,000 430   | 310,000 390   | 272,000 300   |   |   |
| 208    | 8500             | 5 76             | 472,000 590  | 452,000 570   | 414,000 510   | 372,000 500   | 284,000 420   |   |   |
| 220    | 9000             | 6 46             | 518,000 720  | 502,000 700   | 468,000 670   | 432,000 630   | 352,000 560   | 268,000 470   |   |
| 233    | 9500             | 7 20             | 564,000 870  | 550,000 850   | 522,000 810   | 488,000 770   | 416,000 700   | 338,000 620   | 256,000 510   |
| 245    | 10000            | 7 98             | 608,000 1030   | 596,000 1010  | 568,000 970   | 540,000 940   | 478,000 870   | 406,000 780   | 328,000 680   |

### Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| Per 100 feet of length of pipe against continuously maintained resistances |                  |                  |  |       |   |       |   |       |   |       |   |       |   |       |   |       |
|--|------------------|------------------|--|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|
| R.P.M.   | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M. Static Pressure 1" Water .0722 ozs. per sq. inch | H. P. | Volume C.F.M. Static Pressure 1 1/2" Water .145 ozs. per sq. inch | H. P. | Volume C.F.M. Static Pressure 2" Water .217 ozs. per sq. inch | H. P. | Volume C.F.M. Static Pressure 2 1/2" Water .289 ozs. per sq. inch | H. P. | Volume C.F.M. Static Pressure 3" Water .361 ozs. per sq. inch | H. P. | Volume C.F.M. Static Pressure 3 1/2" Water .434 ozs. per sq. inch | H. P. | Volume C.F.M. Static Pressure 4" Water .506 ozs. per sq. inch | H. P. |
| 32   | 1100             | 0 157            | 61,600   | 2 1   |   |       |   |       |   |       |   |       |   |       |   |       |
| 36   | 1600             | 0 205            | 90,600   | 4 2   |   |       |   |       |   |       |   |       |   |       |   |       |
| 41   | 1800             | 0 259            | 115,000  | 6 5   |   |       |   |       |   |       |   |       |   |       |   |       |
| 45   | 2000             | 0 320            | 147,000  | 9 1   | 57,200  | 4 1   |   |       |   |       |   |       |   |       |   |       |
| 50   | 2200             | 0 387            | 158,000  | 13    | 90,600  | 6 7   |   |       |   |       |   |       |   |       |   |       |
| 55   | 2400             | 0 460            | 176,000  | 17    | 120,000   | 10 5  | 69,000  | 7 5   |   |       |   |       |   |       |   |       |
| 59   | 2600             | 0 510            | 185,000  | 22    | 145,000   | 15 0  | 103,000   | 12    |   |       |   |       |   |       |   |       |
| 64   | 2800             | 0 626            | 212,000  | 28    | 169,000   | 19 5  | 133,000   | 17    | 90,400  | 14 5  |   |       |   |       |   |       |
| 68   | 3000             | 0 718            | 230,000  | 35    | 192,000   | 26    | 160,000   | 23    | 123,000   | 19    |   |       |   |       |   |       |
| 73   | 3200             | 0 816            | 246,000  | 43    | 212,000   | 32    | 186,000   | 29    | 154,000   | 26    | 117,000   | 22    |   |       |   |       |
| 77   | 3400             | 0 922            | 264,000  | 52    | 232,000   | 40    | 208,000   | 37    | 181,000   | 33    | 148,000   | 29    | 112,000   | 24    |   |       |
| 82   | 3600             | 1 03             | 280,000  | 64    | 250,000   | 49    | 232,000   | 46    | 208,000   | 42    | 178,000   | 38    | 143,000   | 33    | 116,000   | 30    |
| 86   | 3800             | 1 15             | 296,000  | 74    | 266,000   | 60    | 252,000   | 56    | 230,000   | 52    | 206,000   | 48    | 171,000   | 43    | 146,000   | 39    |
| 90   | 4000             | 1 28             | 311,000  | 86    | 286,000   | 70    | 272,000   | 66    | 252,000   | 62    | 230,000   | 58    | 204,000   | 54    | 177,000   | 50    |
| 95   | 4200             | 1 41             | 330,000  | 100   |   |       | 292,000   | 80    | 276,000   | 74    | 256,000   | 72    | 232,000   | 66    | 208,000   | 62    |
| 100  | 4400             | 1 54             | 346,000  | 115   |   |       | 310,000   | 94    | 296,000   | 88    | 280,000   | 84    | 258,000   | 80    | 236,000   | 76    |
| 105  | 4600             | 1 69             | 364,000  | 130   |   |       | 328,000   | 110   | 316,000   | 105   | 302,000   | 98    | 282,000   | 94    | 260,000   | 90    |
| 109  | 4800             | 1 84             | 378,000  | 150   |   |       | 346,000   | 125   | 336,000   | 125   | 334,000   | 115   | 304,000   | 110   | 288,000   | 110   |
| 114  | 5000             | 2 00             | 396,000  | 170   |   |       | 364,000   | 145   | 354,000   | 140   | 342,000   | 135   | 326,000   | 130   | 310,000   | 125   |
| 119  | 5250             | 2 20             | 416,000  | 200   |   |       |   |       | 372,000   | 160   | 362,000   | 150   | 348,000   | 150   | 332,000   | 145   |
| 125  | 5500             | 2 42             | 436,000  | 230   |   |       |   |       | 394,000   | 185   | 384,000   | 180   | 374,000   | 180   | 360,000   | 170   |
| 131  | 5750             | 2 54             | 454,000  | 250   |   |       |   |       | 416,000   | 220   | 408,000   | 210   | 396,000   | 210   | 386,000   | 200   |
| 136  | 6000             | 2 87             | 478,000  | 300   |   |       |   |       |   |       | 428,000   | 230   | 420,000   | 230   | 408,000   | 220   |
| 142  | 6250             | 3 12             | 496,000  | 340   |   |       |   |       |   |       | 448,000   | 280   | 444,000   | 270   | 436,000   | 270   |
| 148  | 6500             | 3 38             | 516,000  | 380   |   |       |   |       |   |       | 468,000   | 310   | 468,000   | 310   | 454,000   | 320   |
| 153  | 6750             | 3 63             | 538,000  | 420   |   |       |   |       |   |       | 488,000   | 360   | 488,000   | 360   | 482,000   | 350   |
| 159  | 7000             | 3 91             | 556,000  | 470   |   |       |   |       |   |       | 508,000   | 410   | 508,000   | 410   | 504,000   | 400   |
| 170  | 7500             | 4 50             | 598,000  |       |   |       |   |       |   |       |   |       |   |       |   |       |



Double Inlet

## 300" Steel Plate Fan—Design 1

Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M. H. P. Static Pressure 1/8" Water .0722 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1/4" Water .145 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 3/8" Water .217 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1/2" Water .289 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 5/8" Water .361 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 3/4" Water .434 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 7/8" Water .506 ozs. per sq. inch |
|--------|------------------|------------------|--|---|---|---|---|---|---|
| 30     | 1400             | 0 157            | 69,200 2 7   |   |   |   |   |   |   |
| 34     | 1600             | 0 205            | 101,000 4 7  |   |   |   |   |   |   |
| 38     | 1800             | 0 259            | 129,000 7 3  | 61,000 4 6  |   |   |   |   |   |
| 42     | 2000             | 0 320            | 151,000 10 5   | 101,000 7 5   |   |   |   |   |   |
| 47     | 2200             | 0 387            | 177,000 11 5   | 135,000 12 9  | 77,800 8 3  |   |   |   |   |
| 51     | 2400             | 0 460            | 198,000 19 5   | 163,000 16 5  | 115,000 13  |   |   |   |   |
| 55     | 2600             | 0 510            | 218,000 25   | 189,000 22  | 119,000 19  |   |   |   |   |
| 59     | 2800             | 0 626            | 238,000 32   | 211,000 29  | 179,000 25  | 101,000 16  |   |   |   |
| 61     | 3000             | 0 718            | 258,000 40   | 238,000 36  | 208,000 33  | 171,000 29  | 131,000 21  |   |   |
| 68     | 3200             | 0 816            | 276,000 49   | 260,000 45  | 231,000 42  | 202,000 38  | 166,000 33  | 126,000 27  |   |
| 72     | 3400             | 0 922            | 296,000 58   | 280,000 56  | 260,000 52  | 232,000 47  | 199,000 43  | 160,000 37  | 125,000 31  |
| 76     | 3600             | 1 03             | 314,000 70   | 300,000 66  | 282,000 62  | 258,000 58  | 230,000 54  | 183,000 48  | 164,000 43  |
| 81     | 3800             | 1 15             | 332,000 81   | 322,000 80  | 306,000 74  | 282,000 70  | 258,000 66  | 228,000 60  | 198,000 56  |
| 85     | 4000             | 1 28             | 350,000 96   |   | 338,000 90  | 308,000 81  | 286,000 80  | 260,000 74  | 232,000 70  |
| 89     | 4200             | 1 41             | 370,000 110  |   | 368,000 105   | 332,000 100   | 314,000 94  | 288,000 90  | 264,000 84  |
| 93     | 4400             | 1 54             | 388,000 130  |   | 388,000 120   | 354,000 115   | 338,000 110   | 318,000 105   | 292,000 100   |
| 98     | 4600             | 1 69             | 408,000 150  |   | 408,000 140   | 378,000 135   | 362,000 130   | 340,000 125   | 332,000 120   |
| 102    | 4800             | 1 84             | 424,000 170  |   |   | 396,000 155   | 382,000 150   | 376,000 145   | 348,000 135   |
| 106    | 5000             | 2 00             | 444,000 190  |   |   | 416,000 180   | 401,000 170   | 390,000 165   | 372,000 160   |
| 111    | 5250             | 2 20             | 466,000 220  |   |   | 442,000 210   | 430,000 200   | 418,000 195   | 402,000 190   |
| 117    | 5500             | 2 42             | 488,000 260  |   |   | 466,000 240   | 458,000 210   | 441,000 230   | 432,000 220   |
| 122    | 5750             | 2 54             | 510,000 280  |   |   |   | 478,000 260   | 470,000 250   | 456,000 250   |
| 127    | 6000             | 2 87             | 534,000 330  |   |   |   | 502,000 310   | 498,000 310   | 488,000 300   |
| 133    | 6250             | 3 12             | 556,000 380  |   |   |   |   | 521,000 350   | 504,000 340   |
| 138    | 6500             | 3 38             | 578,000 420  |   |   |   |   | 550,000 400   | 540,000 390   |
| 143    | 6750             | 3 63             | 602,000 480  |   |   |   |   |   | 564,000 440   |
| 148    | 7000             | 3 91             | 624,000 530  |   |   |   |   |   |   |
| 159    | 7500             | 4 50             | 670,000 660  |   |   |   |   |   |   |
|        |                  |                  |  |   |   |   |   |   |   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 ozs. per sq. inch                        | Static Pressure 1 1/4" Water .723 ozs. per sq. inch                   | Static Pressure 1 1/2" Water .878 ozs. per sq. inch                   | Static Pressure 1 3/4" Water 1.01 ozs. per sq. inch                   | Static Pressure 2" Water 1.16 ozs. per sq. inch                       | Static Pressure 2 1/4" Water 1.30 ozs. per sq. inch                   | Static Pressure 2 1/2" Water 1.45 ozs. per sq. inch                   |
| 76     | 3600             | 1 03             | 128,000 37   |   |   |   |   |   |   |
| 81     | 3800             | 1 15             | 166,000 49   |   |   |   |   |   |   |
| 85     | 4000             | 1 28             | 202,000 64   | 139,000 54  |   |   |   |   |   |
| 89     | 4200             | 1 41             | 236,000 78   | 177,400 66  |   |   |   |   |   |
| 93     | 4400             | 1 54             | 266,000 94   | 212,000 82  | 154,000 66  |   |   |   |   |
| 98     | 4600             | 1 69             | 303,000 110  | 246,000 100   | 193,000 86  |   |   |   |   |
| 102    | 4800             | 1 84             | 326,000 130  | 280,000 120   | 230,000 110   | 176,000 86  |   |   |   |
| 106    | 5000             | 2 00             | 354,000 155  | 312,000 140   | 266,000 130   | 216,000 110   |   |   |   |
| 111    | 5250             | 2 20             | 384,000 180  | 348,000 170   | 306,000 155   | 260,000 140   | 212,000 125   |   |   |
| 117    | 5500             | 2 42             | 416,000 220  | 384,000 200   | 344,000 190   | 302,000 175   | 258,000 155   | 214,000 140   |   |
| 122    | 5750             | 2 54             | 440,000 240  | 410,000 230   | 380,000 220   | 344,000 200   | 302,000 190   | 214,000 170   |   |
| 127    | 6000             | 2 87             | 476,000 290  | 448,000 270   | 416,000 260   | 380,000 250   | 342,000 230   | 304,000 210   | 262,000 190   |
| 133    | 6250             | 3 12             | 504,000 340  | 478,000 320   | 448,000 300   | 418,000 290   | 386,000 270   | 346,000 260   | 306,000 240   |
| 138    | 6500             | 3 38             | 530,000 380  | 508,000 370   | 478,000 350   | 454,000 340   | 422,000 310   | 386,000 300   | 350,000 280   |
| 143    | 6750             | 3 63             | 556,000 430  | 536,000 410   | 512,000 400   | 486,000 380   | 456,000 370   | 421,000 350   | 392,000 330   |
| 148    | 7000             | 3 91             | 582,000 490  | 564,000 470   | 542,000 450   | 516,000 430   | 490,000 420   | 462,000 400   | 428,000 380   |
| 159    | 7500             | 4 50             | 632,000 610  | 618,000 590   | 598,000 570   | 578,000 550   | 556,000 510   | 530,000 520   | 504,000 500   |
| 170    | 8000             | 5 11             |  | 668,000 730   | 654,000 710   | 636,000 690   | 616,000 670   | 591,000 650   | 572,000 640   |
| 180    | 8500             | 5 76             |  | 718,000 880   | 706,000 870   | 686,000 850   | 672,000 830   | 656,000 800   | 631,000 780   |
| 191    | 9000             | 6 46             |  | 778,000 1070  | 754,000 1040  | 744,000 1020  | 728,000 1000  | 714,000 980   | 694,000 960   |
| 201    | 9500             | 7 20             |  |   | 806,000 1240  | 794,000 1220  | 780,000 1200  | 768,000 1180  | 754,000 1150  |
| 212    | 10000            | 7 98             |  |   | 858,000 1470  | 846,000 1430  | 832,000 1410  | 820,000 1390  | 808,000 1370  |
|        |                  |                  |  |   |   |   |   |   |   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 2 3/4" Water 1.59 ozs. per sq. inch                    | Static Pressure 3" Water 1.73 ozs. per sq. inch                       | Static Pressure 3 1/2" Water 2.02 ozs. per sq. inch                   | Static Pressure 4" Water 2.31 ozs. per sq. inch                       | Static Pressure 5" Water 2.89 ozs. per sq. inch                       | Static Pressure 6" Water 3.47 ozs. per sq. inch                       | Static Pressure 7" Water 4.05 ozs. per sq. inch                       |
| 133    | 6250             | 3 12             | 266,000 220  |   |   |   |   |   |   |
| 138    | 6500             | 3 38             | 312,000 260  | 274,000 240   |   |   |   |   |   |
| 143    | 6750             | 3 63             | 354,000 310  | 319,000 290   |   |   |   |   |   |
| 148    | 7000             | 3 91             | 396,000 370  | 376,000 350   | 292,000 300   |   |   |   |   |
| 159    | 7500             | 4 50             | 476,000 490  | 446,000 470   | 388,000 420   | 314,000 370   |   |   |   |
| 170    | 8000             | 5 11             | 548,000 620  | 522,000 600   | 466,000 560   | 404,000 510   | 278,000 400   |   |   |
| 180    | 8500             | 5 76             | 616,000 770  | 592,000 740   | 542,000 710   | 486,000 660   | 370,000 550   |   |   |
| 191    | 9000             | 6 46             | 678,000 940  | 656,000 970   | 612,000 870   | 564,000 830   | 460,000 730   | 350,000 610   |   |
| 201    | 9500             | 7 20             | 736,000 1130   | 718,000 1110  | 680,000 1060  | 638,000 1010  | 514,000 920   | 442,000 800   | 334,000 670   |
| 212    | 10000            | 7 98             | 796,000 1350   | 778,000 1320  | 744,000 1270  | 708,000 1230  | 624,000 1130  | 530,000 1020  | 428,000 898   |

# Double Inlet **320" Steel Plate Fan—Design 1** Double Width When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.                                      | H. P. | Volume C.F.M.                                     | H. P. | Volume C.F.M.                                     | H. P. | Volume C.F.M.                                     | H. P. | Volume C.F.M.                                     | H. P. | Volume C.F.M.                                     | H. P. | Volume C.F.M.                                     | H. P. |
|--------|------------------|------------------|--|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|
|        |                  |                  | Static Pressure 1/2" Water .0722 ozs. per sq. inch |       | Static Pressure 1/4" Water .145 ozs. per sq. inch |       | Static Pressure 3/8" Water .217 ozs. per sq. inch |       | Static Pressure 1/2" Water .289 ozs. per sq. inch |       | Static Pressure 5/8" Water .361 ozs. per sq. inch |       | Static Pressure 3/4" Water .434 ozs. per sq. inch |       | Static Pressure 7/8" Water .506 ozs. per sq. inch |       |
| 28     | 1400             | 0 157            | 78,000   | 3 0   |   |       |   |       |   |       |   |       |   |       |   |       |
| 32     | 1600             | 0 205            | 114,000  | 5 3   |   |       |   |       |   |       |   |       |   |       |   |       |
| 36     | 1800             | 0 259            | 146,000  | 8 2   | 72,400  | 5 2   |   |       |   |       |   |       |   |       |   |       |
| 40     | 2000             | 0 320            | 174,000  | 12 0  | 114,400   | 8 4   |   |       |   |       |   |       |   |       |   |       |
| 44     | 2200             | 0 387            | 200,000  | 16 5  | 152,000   | 13 5  | 88,000  | 9 4   |   |       |   |       |   |       |   |       |
| 48     | 2400             | 0 460            | 224,000  | 22    | 181,000   | 19    | 130,000   | 15    |   |       |   |       |   |       |   |       |
| 52     | 2600             | 0 540            | 246,000  | 28    | 214,000   | 25    | 168,000   | 21    | 114,000   | 18 5  |   |       |   |       |   |       |
| 56     | 2800             | 0 626            | 268,000  | 36    | 242,000   | 32    | 202,000   | 29    | 156,000   | 24    |   |       |   |       |   |       |
| 60     | 3000             | 0 718            | 290,000  | 45    | 268,000   | 41    | 234,000   | 37    | 193,000   | 33    | 148,000   | 27    |   |       |   |       |
| 64     | 3200             | 0 816            | 312,000  | 54    | 294,000   | 52    | 264,000   | 47    | 230,000   | 42    | 188,000   | 37    | 142,000   | 31    |   |       |
| 68     | 3400             | 0 922            | 334,000  | 66    | 318,000   | 62    | 294,000   | 58    | 262,000   | 51    | 224,000   | 48    | 181,000   | 42    | 141,000   | 35    |
| 72     | 3600             | 1 03             | 356,000  | 80    | 338,000   | 74    | 318,000   | 70    | 292,000   | 66    | 260,000   | 60    | 220,000   | 54    | 185,000   | 49    |
| 76     | 3800             | 1 15             | 376,000  | 94    | 362,000   | 90    | 346,000   | 84    | 320,000   | 78    | 292,000   | 74    | 258,000   | 68    | 224,000   | 62    |
| 80     | 4000             | 1 28             | 396,000  | 110   |   |       | 370,000   | 100   | 348,000   | 94    | 321,000   | 90    | 294,000   | 84    | 262,000   | 78    |
| 84     | 4200             | 1 41             | 418,000  | 130   |   |       | 394,000   | 120   | 374,000   | 110   | 354,000   | 110   | 326,000   | 105   | 298,000   | 96    |
| 88     | 4400             | 1 54             | 440,000  | 145   |   |       | 414,000   | 135   | 400,000   | 130   | 382,000   | 125   | 356,000   | 120   | 328,000   | 110   |
| 92     | 4600             | 1 69             | 460,000  | 165   |   |       | 438,000   | 160   | 426,000   | 155   | 410,000   | 150   | 384,000   | 140   | 364,000   | 135   |
| 96     | 4800             | 1 84             | 478,000  | 190   |   |       | 460,000   | 180   | 448,000   | 175   | 432,000   | 170   | 412,000   | 165   | 392,000   | 155   |
| 100    | 5000             | 2 00             | 500,000  | 220   |   |       |   |       | 470,000   | 200   | 456,000   | 195   | 440,000   | 190   | 420,000   | 180   |
| 104    | 5250             | 2 20             | 526,000  | 250   |   |       |   |       | 500,000   | 230   | 486,000   | 230   | 472,000   | 220   | 451,000   | 210   |
| 109    | 5500             | 2 42             | 552,000  | 290   |   |       |   |       | 528,000   | 270   | 516,000   | 270   | 502,000   | 260   | 488,000   | 250   |
| 114    | 5750             | 2 54             | 576,000  | 320   |   |       |   |       |   |       | 540,000   | 290   | 530,000   | 290   | 516,000   | 280   |
| 119    | 6000             | 2 87             | 604,000  | 380   |   |       |   |       |   |       | 568,000   | 350   | 562,000   | 350   | 550,000   | 310   |
| 124    | 6250             | 3 12             | 628,000  | 430   |   |       |   |       |   |       |   |       | 590,000   | 390   | 574,000   | 380   |
| 129    | 6500             | 3 38             | 650,000  | 480   |   |       |   |       |   |       |   |       | 620,000   | 450   | 610,000   | 440   |
| 134    | 6750             | 3 63             | 680,000  | 540   |   |       |   |       |   |       |   |       |   |       | 636,000   | 490   |
| 139    | 7000             | 3 91             | 704,000  | 590   |   |       |   |       |   |       |   |       |   |       | 666,000   | 500   |
| 149    | 7500             | 4 50             | 756,000  | 740   |   |       |   |       |   |       |   |       |   |       |   |       |
| 72     | 3600             | 1 03             | 144,000  | 41    |   |       |   |       |   |       |   |       |   |       |   |       |
| 76     | 3800             | 1 15             | 187,000  | 56    |   |       |   |       |   |       |   |       |   |       |   |       |
| 80     | 4000             | 1 28             | 230,000  | 72    | 157,000   | 62    |   |       |   |       |   |       |   |       |   |       |
| 84     | 4200             | 1 41             | 266,000  | 88    | 200,000   | 74    |   |       |   |       |   |       |   |       |   |       |
| 88     | 4400             | 1 54             | 300,000  | 110   | 240,000   | 92    | 174,000   | 74    |   |       |   |       |   |       |   |       |
| 92     | 4600             | 1 69             | 338,000  | 125   | 278,000   | 110   | 218,000   | 86    |   |       |   |       |   |       |   |       |
| 96     | 4800             | 1 84             | 368,000  | 150   | 318,000   | 135   | 260,000   | 120   | 199,000   | 98    |   |       |   |       |   |       |
| 100    | 5000             | 2 00             | 400,000  | 175   | 352,000   | 160   | 300,000   | 145   | 242,000   | 125   |   |       |   |       |   |       |
| 104    | 5250             | 2 20             | 434,000  | 200   | 394,000   | 190   | 346,000   | 180   | 294,000   | 160   | 240,000   | 140   |   |       |   |       |
| 109    | 5500             | 2 42             | 474,000  | 240   | 434,000   | 230   | 388,000   | 220   | 340,000   | 195   | 292,000   | 180   | 240,000   | 155   |   |       |
| 114    | 5750             | 2 54             | 498,000  | 270   | 464,000   | 260   | 428,000   | 250   | 390,000   | 230   | 342,000   | 210   | 274,000   | 190   |   |       |
| 119    | 6000             | 2 87             | 536,000  | 330   | 506,000   | 310   | 468,000   | 300   | 430,000   | 280   | 386,000   | 260   | 342,000   | 210   | 296,000   | 220   |
| 124    | 6250             | 3 12             | 570,000  | 380   | 540,000   | 360   | 506,000   | 340   | 472,000   | 330   | 436,000   | 310   | 390,000   | 290   | 346,000   | 270   |
| 129    | 6500             | 3 38             | 598,000  | 430   | 574,000   | 410   | 540,000   | 390   | 512,000   | 380   | 476,000   | 350   | 436,000   | 310   | 396,000   | 320   |
| 134    | 6750             | 3 63             | 628,000  | 490   | 606,000   | 470   | 576,000   | 450   | 548,000   | 430   | 516,000   | 420   | 478,000   | 400   | 444,000   | 380   |
| 139    | 7000             | 3 91             | 656,000  | 550   | 636,000   | 530   | 612,000   | 510   | 584,000   | 490   | 554,000   | 470   | 522,000   | 460   | 484,000   | 430   |
| 149    | 7500             | 4 50             | 714,000  | 690   | 698,000   | 670   | 676,000   | 650   | 652,000   | 630   | 628,000   | 610   | 598,000   | 590   | 570,000   | 570   |
| 159    | 8000             | 5 11             |  |       | 754,000   | 890   | 738,000   | 810   | 718,000   | 780   | 698,000   | 760   | 670,000   | 730   | 646,000   | 720   |
| 169    | 8500             | 5 76             |  |       | 810,000   | 1000  | 796,000   | 980   | 774,000   | 950   | 760,000   | 930   | 740,000   | 910   | 716,000   | 890   |
| 179    | 9000             | 6 46             |  |       | 868,000   | 1200  | 852,000   | 1170  | 840,000   | 1160  | 822,000   | 1130  | 806,000   | 1110  | 784,000   | 1080  |
| 189    | 9500             | 7 20             |  |       |   |       | 910,000   | 1400  | 896,000   | 1380  | 880,000   | 1350  | 866,000   | 1330  | 852,000   | 1300  |
| 199    | 10000            | 7 98             |  |       |   |       | 970,000   | 1650  | 954,000   | 1620  | 940,000   | 1590  | 928,000   | 1570  | 912,000   | 1550  |
| 124    | 6250             | 3 12             | 302,000  | 240   |   |       |   |       |   |       |   |       |   |       |   |       |
| 129    | 6500             | 3 38             | 352,000  | 300   | 308,000   | 270   |   |       |   |       |   |       |   |       |   |       |
| 134    | 6750             | 3 63             | 400,000  | 350   | 360,000   | 330   |   |       |   |       |   |       |   |       |   |       |
| 139    | 7000             | 3 91             | 448,000  | 410   | 412,000   | 390   | 328,000   | 340   |   |       |   |       |   |       |   |       |
| 149    | 7500             | 4 50             | 538,000  | 530   | 504,000   | 530   | 430,000   | 470   | 356,000   | 420   |   |       |   |       |   |       |
| 159    | 8000             | 5 11             | 618,000  | 700   | 588,000   | 680   | 526,000   | 630   | 456,000   | 570   | 312,000   | 450   |   |       |   |       |
| 169    | 8500             | 5 76             | 696,000  | 870   | 668,000   | 840   | 612,000   | 800   | 550,000   | 740   | 478,000   | 620   |   |       |   |       |
| 179    | 9000             | 6 46             | 786,000  | 1060  | 740,000   | 1030  | 692,000   | 990   | 638,000   | 940   | 520,000   | 820   | 396,000   | 690   |   |       |
| 189    | 9500             | 7 20             | 832,000  | 1280  | 810,000   | 1250  | 768,000   | 1200  | 720,000   | 1140  | 614,000   | 1040  | 500,000   | 910   | 376,000   | 750   |
| 199    | 10000            | 7 98             | 898,000  | 1530  | 880,000   | 1490  | 840,000   | 1430  | 798,000   | 1390  | 704,000   | 1280  | 598,000   | 1150  | 484,000   | 1000  |

## Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| Table 1. Static Pressures in 1" and 2" Pipes Against Continuously Maintained Resistances |                  |                  |   |  |  |  |  |  |  |  |  |  |  |  |  |
|--|------------------|------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|
| R.P.M.   | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M. H.P. Static Pressure 1" Water .0722 oza. per sq. inch | Volume C.F.M. H.P. Static Pressure 1 1/2" Water .145 oza. per sq. inch | Volume C.F.M. H.P. Static Pressure 2" Water .217 oza. per sq. inch | Volume C.F.M. H.P. Static Pressure 2 1/2" Water .289 oza. per sq. inch | Volume C.F.M. H.P. Static Pressure 3" Water .361 oza. per sq. inch | Volume C.F.M. H.P. Static Pressure 3 1/2" Water .434 oza. per sq. inch | Volume C.F.M. H.P. Static Pressure 4" Water .506 oza. per sq. inch |  |  |  |  |  |  |
| 25   | 1400             | 0.157            | 101,000   | 4  |  |  |  |  |  |  |  |  |  |  |  |
| 28   | 1600             | 0.205            | 148,000   | 7  |  |  |  |  |  |  |  |  |  |  |  |
| 32   | 1800             | 0.250            | 189,000   | 11   | 93,600   | 7  |  |  |  |  |  |  |  |  |  |
| 35   | 2000             | 0.320            | 226,000   | 16   | 148,000  | 11   |  |  |  |  |  |  |  |  |  |
| 39   | 2200             | 0.387            | 260,000   | 21   | 197,000  | 18   | 115,000  | 12   |  |  |  |  |  |  |  |
| 42   | 2400             | 0.460            | 288,000   | 28   | 238,000  | 24   | 169,000  | 20   |  |  |  |  |  |  |  |
| 46   | 2600             | 0.510            | 318,000   | 37   | 276,000  | 32   | 218,000  | 28   |  |  |  |  |  |  |  |
| 50   | 2800             | 0.626            | 348,000   | 46   | 311,000  | 42   | 262,000  | 37   | 148,000  |  |  |  |  |  |  |
| 53   | 3000             | 0.718            | 376,000   | 58   | 348,000  | 51   | 304,000  | 48   | 202,000  |  |  |  |  |  |  |
| 57   | 3200             | 0.816            | 401,000   | 70   | 380,000  | 66   | 342,000  | 60   | 250,000  |  |  |  |  |  |  |
| 60   | 3400             | 0.922            | 432,000   | 86   | 410,000  | 80   | 380,000  | 71   | 296,000  |  |  |  |  |  |  |
| 64   | 3600             | 1.03             | 460,000   | 105  | 438,000  | 96   | 412,000  | 90   | 340,000  |  |  |  |  |  |  |
| 67   | 3800             | 1.15             | 486,000   | 120  | 470,000  | 115  | 448,000  | 110  | 378,000  |  |  |  |  |  |  |
| 71   | 4000             | 1.28             | 511,000   | 140  |  |  | 480,000  | 130  | 418,000  |  |  |  |  |  |  |
| 74   | 4200             | 1.41             | 540,000   | 165  |  |  | 510,000  | 150  | 458,000  |  |  |  |  |  |  |
| 78   | 4400             | 1.54             | 568,000   | 190  |  |  | 536,000  | 175  | 484,000  |  |  |  |  |  |  |
| 81   | 4600             | 1.69             | 596,000   | 210  |  |  | 568,000  | 210  | 516,000  |  |  |  |  |  |  |
| 85   | 4800             | 1.84             | 620,000   | 250  |  |  | 596,000  | 230  | 552,000  |  |  |  |  |  |  |
| 88   | 5000             | 2.00             | 648,000   | 280  |  |  |  | 250  | 580,000  |  |  |  |  |  |  |
| 93   | 5250             | 2.20             | 680,000   | 320  |  |  |  | 300  | 608,000  |  |  |  |  |  |  |
| 97   | 5500             | 2.42             | 714,000   | 370  |  |  |  | 350  | 646,000  |  |  |  |  |  |  |
| 102  | 5750             | 2.54             | 744,000   | 410  |  |  |  |  | 682,000  |  |  |  |  |  |  |
| 106  | 6000             | 2.87             | 782,000   | 490  |  |  |  |  |  |  |  |  |  |  |  |
| 111  | 6250             | 3.12             | 812,000   | 550  |  |  |  |  |  |  |  |  |  |  |  |
| 115  | 6500             | 3.38             | 846,000   | 620  |  |  |  |  |  |  |  |  |  |  |  |
| 119  | 6750             | 3.63             | 880,000   | 700  |  |  |  |  |  |  |  |  |  |  |  |
| 124  | 7000             | 3.91             | 912,000   | 770  |  |  |  |  |  |  |  |  |  |  |  |
| 133  | 7500             | 4.5              | 980,000   | 960  |  |  |  |  |  |  |  |  |  |  |  |

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 oza. per sq. inch | Static Pressure 1 1/2" Water .723 oza. per sq. inch | Static Pressure 2" Water .878 oza. per sq. inch | Static Pressure 2 1/2" Water 1.01 oza. per sq. inch | Static Pressure 3" Water 1.16 oza. per sq. inch | Static Pressure 3 1/2" Water 1.30 oza. per sq. inch | Static Pressure 4" Water 1.45 oza. per sq. inch |
|--------|------------------|------------------|---|---|---|---|---|---|---|
| 61     | 3600             | 1.03             | 187,000   | 54  |   |   |   |   |   |
| 67     | 3800             | 1.15             | 242,000   | 72  |   |   |   |   |   |
| 71     | 4000             | 1.28             | 296,000   | 94  | 204,000   | 80  |   |   |   |
| 74     | 4200             | 1.41             | 344,000   | 115   | 260,000   | 96  |   |   |   |
| 78     | 4400             | 1.54             | 390,000   | 140   | 310,000   | 120   | 226,000   | 96  |   |
| 81     | 4600             | 1.69             | 438,000   | 165   | 360,000   | 150   |   |   |   |
| 85     | 4800             | 1.84             | 476,000   | 195   | 410,000   | 175   | 282,000   | 125   |   |
| 88     | 5000             | 2.00             | 516,000   | 230   | 456,000   | 210   | 338,000   | 155   |   |
| 93     | 5250             | 2.20             | 562,000   | 270   | 510,000   | 250   | 388,000   | 190   |   |
| 97     | 5500             | 2.42             | 608,000   | 320   | 562,000   | 300   | 448,000   | 230   |   |
| 102    | 5750             | 2.54             | 644,000   | 370   | 600,000   | 330   | 504,000   | 280   |   |
| 106    | 6000             | 2.87             | 694,000   | 420   | 654,000   | 400   | 556,000   | 340   |   |
| 111    | 6250             | 3.12             | 738,000   | 500   | 700,000   | 470   | 610,000   | 420   |   |
| 115    | 6500             |                  |   |   |   |   |   |   |   |

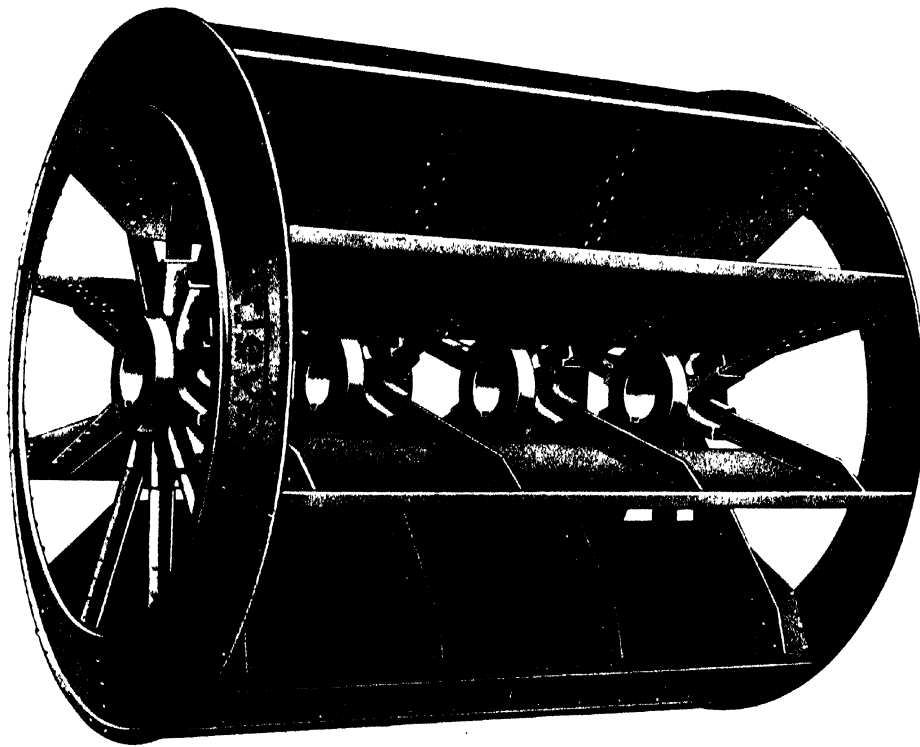




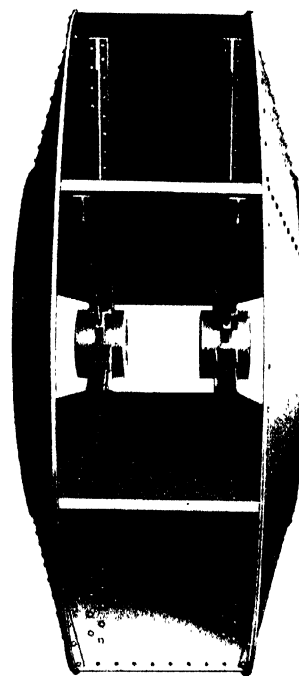
# **STEEL PLATE FANS**

## **Design 2**

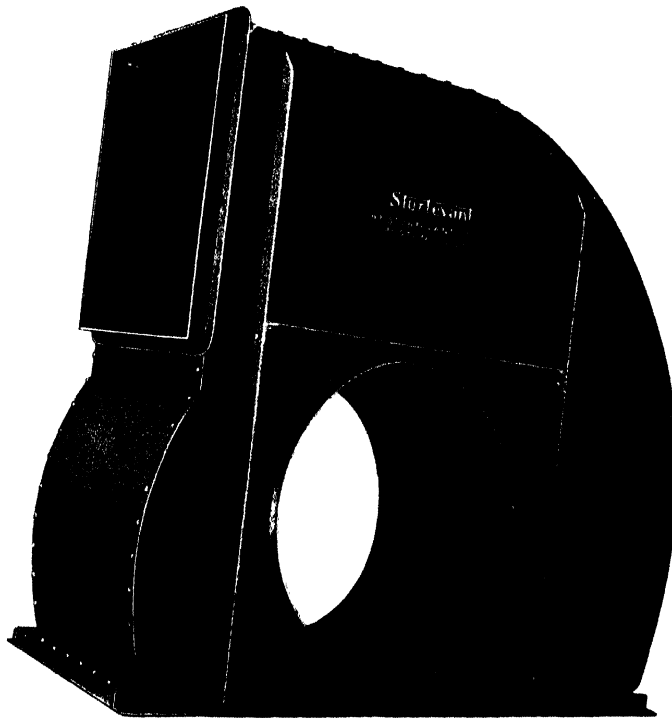
**Dimensions, Capacities, Horse Powers**



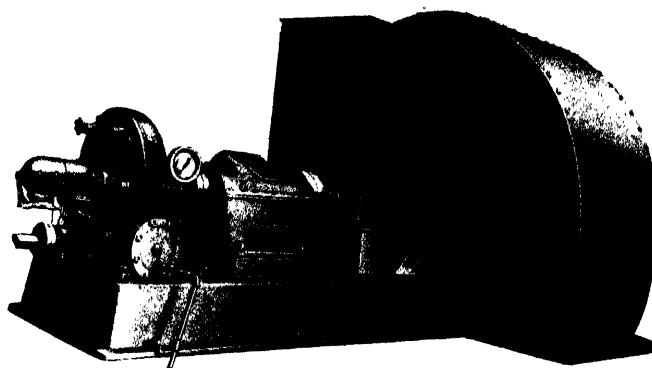
Double width wheel for Sturtevant High Speed Steel Plate Fan



Wheel of Sturtevant High Speed Steel Plate Fan. - Note the angle irons which attach blades to side plates, and reinforcing strips around inlet and periphery of wheel



Housing of Sturtevant High Speed Steel Plate Fan



Steel Plate Fan Driven through Sturtevant Gears by Sturtevant Turbine



# STEEL PLATE FAN—DESIGN 2

## SPECIFICATIONS

There shall be furnished a No. . . . . Design 2, Sturtevant Steel Plate Fan. It shall be made (single or double) . . . . . inlet, (single or double) . . . . . width, (right or left) . . . . . hand, . . . . . discharge, and three-quarter housing. The wheel shall be not less than . . . . . inches diameter, . . . . . inches wide. The outlet shall be . . . . . inches x . . . . . inches. The diameter of the inlet shall be . . . . . inches. The total height of the fan housing shall be . . . . . inches. The width in direction of the shaft . . . . . inches, and the length transverse to shaft . . . . . inches. The fan shall have a capacity of . . . . . cubic feet per minute against a resistance of . . . . . inches water gauge either at the inlet or at the outlet (or at both taking the sum) and shall operate at approximately . . . . . R. P. M. requiring approximately . . . . . B. H. P.

**Housing.** The housing shall be of spiral form constructed of steel plate strongly braced, bolted and riveted to a rigid frame of angle irons. The outlet shall be rectangular in shape and shall consist of angle irons bolted to the housing and arranged for connection to a discharge duct.

**Wheels.** The blades and side plate of the wheel shall be refined steel plate. The side plate shall be reinforced around the inlet and periphery with reinforcing rings. The outer edges of all blades shall be reinforced with angle irons. Both blades and side plates shall be punched to templates to insure accuracy. To give proper strength the blades shall be attached to the side plates by means of angle irons. Single width wheels shall have two spiders; and double width wheels, four spiders. The spiders shall consist of steel T-arms cast into the hub. Hubs shall be accurately bored and fitted with key ways and set screws. The complete wheel shall be supported from two pedestal type bearings entirely independent of the fan housing.

**Bearings.** The bearings shall be of rigid type, and to insure an ample supply of oil to the surfaces, shall be provided with three brass rings and a carefully grooved cap. To prevent oil from escaping from the ends of the bearings and to return it to the reservoir, both upper and lower boxes shall be provided with suitable oil grooves. A sight oil gauge shall be located in the lower half of the bearing to indicate the height of the oil in the reservoir. An overflow to prevent overfilling shall also be provided. The bearing shall be designed with water passages so that cooling water may be circulated when necessary.

**Shaft.** The shaft shall be made from a steel forging turned, splined, and ground to exact finish.

# STEEL PLATE FAN—DESIGN 2

## EXPLANATION OF SPECIFICATION REQUIREMENTS

**Noise.** These fans are designed primarily for the slower speeds and therefore have comparatively large diameter wheels. This makes it possible to obtain the necessary tip speed to develop the desired pressures without using excessive rotative speeds. Also, on account of the peculiar construction of the fan wheel, the air velocities through the fan are low and uniform. This slow rotative speed, combined with the low air velocities, results in practically noiseless operation under ordinary conditions.

**Structural Design.** The satisfactory operation of a fan, from the standpoint of strength and freedom from distortion, is determined entirely by the design of the fan wheel and of the bearings since the construction of the housing is comparatively simple and means only the proper distribution of material to resist the air pressure within the casing. In this fan wheel all of the principal members are radial, are of simple design, and are therefore best suited to resist the stresses tending to wreck or distort the fan. The fan blades are flat and are supported on at least two spiders properly located on the float so as to equalize the loading on the float. The floats are also reinforced at the tip so as to prevent distortion at this point.

The spiders are built up of steel T-arms cast into heavy semi-steel hubs and are carefully fitted and keyed to the fan shaft. The spiders are secured in proper position by steel side plates on the sides of the floats. These side plates are secured to the floats by rolled steel angles and are further reinforced by steel bands at both the inside and outside diameters. After the wheel has been assembled, it is carefully balanced to insure against vibration when in operation. Throughout the construction of this wheel hot riveting is used exclusively, thereby insuring the complete filling of all holes and preventing the movement of any of the parts with respect to one another.

The bearings used in connection with this fan are of heavy, rigid, ring-oiling type and are mounted on cast-iron pedestals which are set independently of the fan housing. This insures a secure bearing for the fan wheel and prevents any vibration which might be caused by connection to the fan casing. The bearing pedestals are made as low as permissible to obviate any possibility of vibration which is usually incidental to high supports. The bearings are lined with the highest grade babbitt bearing metal and are scraped to exactly fit the shaft which insures perfect operation at the start and makes it unnecessary to run the bearings into shape.

## **Steel Plate Fan — Design 2**

### **EXPLANATION OF TABLES**

The general explanation of tables given at the front of this book applies without exception to the following tables.

## Steel Plate Fan—Design 2

### APPROXIMATE WEIGHTS

| Size<br>Wheel Diam.<br>Feet | Single<br>Width | Double<br>Width |
|-----------------------------|-----------------|-----------------|
| 3                           |                 |                 |
| 3½                          |                 | 3500            |
| 4                           | 1900            | 4200            |
| 4½                          | 2250            | 4800            |
| 5                           | 2650            | 5500            |
| 5½                          | 3100            | 6200            |
| 6                           | 4000            | 7000            |
| 6½                          | 4500            | 7800            |
| 7                           | 5200            | 8600            |
| 7½                          | 5800            | 9500            |
| 8                           | 6900            | 10400           |
| 8½                          | 7650            | 11200           |
| 9                           | 8350            | 12100           |
| 9½                          | 9550            | 13000           |
| 10                          | 10400           | 13900           |
| 11                          | 12500           | 15800           |
| 12                          | 14000           | 17700           |

Single Inlet

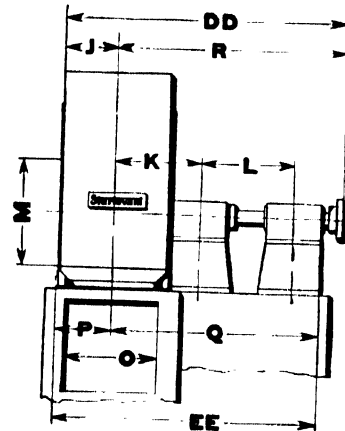
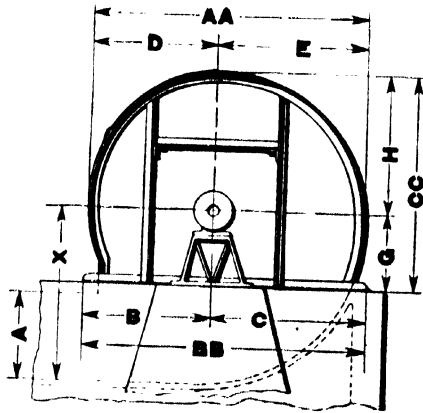
## Steel Plate Fan—Design 2

Single Width

 $\frac{3}{4}$  Housing

Bottom Horizontal Discharge

Overhung Wheel



| Fan Size  | A  | B  | C   | D  | E   | G  | H  | J  | K  | L  | M  | O  | P  | Q   | R   | X   | AA  | BB  | CC  | DD  | EE  | Wheel Diameter | Shaft Diameter | Anchor Bolts | Feet |   |
|-----------|----|----|-----|----|-----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|----------------|----------------|--------------|------|---|
| 4 ft.     | 22 | 28 | 37  | 29 | 35  | 17 | 32 | 12 | 20 | 20 | 21 | 20 | 14 | 47  | 53  | 43  | 64  | 66  | 49  | 65  | 61  | 48             | 2 1/8          | 1 1/2        | 3    | 3 |
| 4 1/2 ft. | 24 | 32 | 41  | 32 | 39  | 18 | 36 | 13 | 22 | 22 | 27 | 22 | 16 | 49  | 56  | 47  | 72  | 73  | 54  | 69  | 65  | 54             | 2 1/8          | 1 1/2        | 3    | 3 |
| 5 ft.     | 27 | 35 | 45  | 36 | 43  | 20 | 39 | 14 | 23 | 23 | 30 | 25 | 17 | 52  | 58  | 51  | 79  | 80  | 59  | 73  | 69  | 60             | 2 1/8          | 1 1/2        | 3    | 3 |
| 5 1/2 ft. | 30 | 38 | 49  | 39 | 48  | 21 | 43 | 16 | 26 | 26 | 33 | 27 | 18 | 58  | 66  | 55  | 87  | 88  | 65  | 82  | 77  | 66             | 3 1/8          | 1 1/2        | 3    | 3 |
| 6 ft.     | 33 | 41 | 53  | 43 | 52  | 23 | 47 | 17 | 27 | 27 | 36 | 30 | 19 | 61  | 69  | 60  | 95  | 94  | 71  | 86  | 81  | 72             | 3 1/8          | 1 1/2        | 3    | 3 |
| 6 1/2 ft. | 35 | 45 | 59  | 46 | 56  | 26 | 51 | 18 | 30 | 30 | 39 | 32 | 22 | 66  | 74  | 65  | 103 | 105 | 77  | 93  | 89  | 78             | 3 1/8          | 1 1/2        | 3    | 3 |
| 7 ft.     | 38 | 49 | 63  | 50 | 61  | 27 | 55 | 19 | 31 | 31 | 42 | 35 | 23 | 69  | 77  | 70  | 111 | 112 | 83  | 96  | 93  | 84             | 3 1/8          | 1 1/2        | 3    | 3 |
| 7 1/2 ft. | 41 | 52 | 67  | 54 | 65  | 29 | 59 | 21 | 32 | 32 | 45 | 37 | 25 | 71  | 79  | 74  | 119 | 120 | 88  | 100 | 96  | 90             | 3 1/8          | 1 1/2        | 3    | 3 |
| 8 ft.     | 44 | 55 | 71  | 57 | 69  | 30 | 63 | 22 | 35 | 35 | 48 | 40 | 26 | 79  | 86  | 78  | 127 | 127 | 94  | 109 | 105 | 96             | 4 1/8          | 1 1/2        | 3    | 3 |
| 8 1/2 ft. | 46 | 58 | 76  | 61 | 74  | 32 | 67 | 24 | 36 | 36 | 51 | 42 | 27 | 81  | 89  | 82  | 135 | 134 | 99  | 113 | 109 | 102            | 4 1/8          | 1 1/2        | 3    | 3 |
| 9 ft.     | 49 | 61 | 80  | 64 | 78  | 33 | 71 | 25 | 37 | 37 | 54 | 45 | 28 | 84  | 91  | 87  | 143 | 141 | 105 | 117 | 112 | 108            | 5              | 1 1/2        | 3    | 3 |
| 9 1/2 ft. | 52 | 64 | 84  | 68 | 82  | 35 | 75 | 26 | 39 | 39 | 57 | 47 | 30 | 86  | 94  | 91  | 151 | 149 | 110 | 120 | 116 | 114            | 5              | 1 1/2        | 3    | 3 |
| 10 ft.    | 55 | 67 | 88  | 72 | 87  | 36 | 79 | 27 | 42 | 42 | 60 | 50 | 31 | 95  | 103 | 95  | 159 | 156 | 116 | 131 | 127 | 120            | 5 1/2          | 1 1/2        | 3    | 3 |
| 11 ft.    | 60 | 74 | 96  | 79 | 95  | 39 | 87 | 30 | 45 | 45 | 66 | 55 | 33 | 100 | 108 | 104 | 175 | 170 | 127 | 138 | 134 | 132            | 6              | 2            | 4    | 1 |
| 12 ft.    | 66 | 80 | 105 | 86 | 104 | 42 | 95 | 32 | 47 | 47 | 72 | 60 | 36 | 105 | 113 | 112 | 191 | 185 | 137 | 146 | 142 | 144            | 6              | 2            | 4    | 1 |

Single Inlet

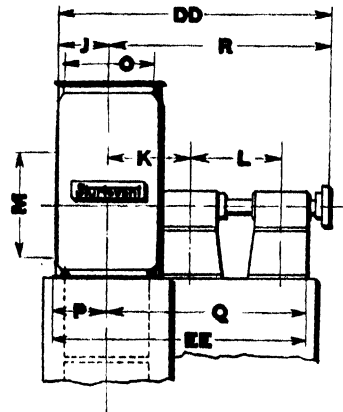
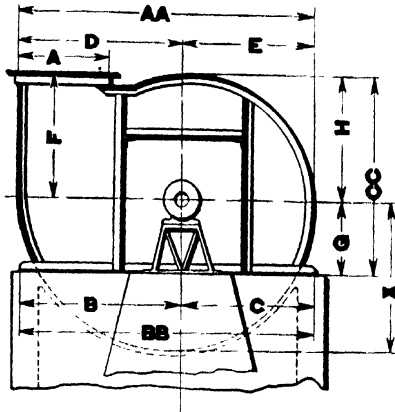
## Steel Plate Fan—Design 2

Single Width

 $\frac{3}{4}$  Housing

Up Blast Discharge

Overhung Wheel



| Fan Size | A   | B    | C   | D    | E   | F   | G   | H   | J   | K   | L   | M   | O   | P   | Q    | R    | X    | AA   | BB   | CC   | DD   | EE   | Wheel Dia. | Shaft Diameter | Anchor Fan | Bolts Pedestals |
|----------|-----|------|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------------|----------------|------------|-----------------|
| 4 ft.    | 22½ | 39½  | 34  | 38   | 32  | 28½ | 17  | 29  | 12½ | 20½ | 20½ | 24½ | 20½ | 14½ | 47   | 53½  | 35   | 70   | 73½  | 46   | 65½  | 61½  | 48         | 2½             | ½          | ½               |
| 4½ ft.   | 25½ | 43½  | 38  | 42½  | 36  | 32½ | 18½ | 32½ | 13½ | 22  | 22  | 27½ | 23  | 16  | 49½  | 56   | 39½  | 78½  | 81½  | 51½  | 69½  | 65½  | 54         | 2½             | ½          | ½               |
| 5 ft.    | 28  | 48   | 41½ | 47½  | 39½ | 36  | 20  | 36½ | 14½ | 23½ | 23½ | 30½ | 25½ | 17½ | 52   | 58½  | 43½  | 87½  | 89½  | 56½  | 73½  | 69½  | 60         | 2½             | ½          | ½               |
| 5½ ft.   | 30½ | 52½  | 45½ | 52½  | 43½ | 39½ | 21½ | 39½ | 16  | 26  | 26  | 33½ | 28  | 18½ | 58½  | 66½  | 48   | 96   | 97½  | 61½  | 82½  | 77½  | 66         | 3½             | ½          | ½               |
| 6 ft.    | 33½ | 56½  | 49  | 56½  | 47½ | 43½ | 23½ | 43½ | 17½ | 27½ | 27½ | 36½ | 30½ | 19½ | 61½  | 69   | 52½  | 104½ | 105½ | 66½  | 86½  | 81½  | 72         | 3½             | ½          | ½               |
| 6½ ft.   | 36½ | 62½  | 54  | 61½  | 51½ | 46½ | 26  | 46½ | 18½ | 30  | 30  | 39½ | 33  | 22½ | 66½  | 74½  | 56½  | 113½ | 116½ | 72½  | 93   | 89½  | 78         | 3½             | ½          | ½               |
| 7 ft.    | 39  | 67   | 58  | 66½  | 55½ | 50½ | 27½ | 50½ | 19½ | 31½ | 31½ | 42½ | 35½ | 23½ | 69½  | 77   | 61½  | 122½ | 125  | 78½  | 96½  | 93½  | 84         | 3½             | ½          | ½               |
| 7½ ft.   | 41½ | 71½  | 61½ | 71   | 59½ | 54  | 29  | 54½ | 21  | 32½ | 32½ | 45½ | 38  | 25  | 71½  | 79½  | 65½  | 130½ | 133  | 83½  | 100½ | 96½  | 90         | 3½             | ½          | ½               |
| 8 ft.    | 44½ | 75½  | 65½ | 75½  | 63½ | 57½ | 30½ | 57½ | 22½ | 35½ | 35½ | 48½ | 40½ | 26½ | 79   | 86½  | 69½  | 139½ | 141½ | 88½  | 109  | 105½ | 96         | 4½             | ½          | ½               |
| 8½ ft.   | 47½ | 80   | 69  | 80½  | 67½ | 61½ | 32  | 61½ | 24  | 36½ | 36½ | 51½ | 43  | 27½ | 81½  | 89½  | 74   | 148  | 149  | 93½  | 113½ | 109  | 102        | 4½             | ½          | ½               |
| 9 ft.    | 50  | 84½  | 73  | 85½  | 71½ | 64½ | 33½ | 64½ | 25½ | 37½ | 37½ | 54½ | 45½ | 28½ | 84   | 91½  | 78½  | 156½ | 157½ | 98½  | 117  | 112½ | 108        | 5              | ½          | ½               |
| 9½ ft.   | 52½ | 88½  | 76½ | 89½  | 75½ | 68½ | 35  | 68½ | 26½ | 39  | 39  | 57½ | 48  | 30  | 86½  | 94½  | 82½  | 165½ | 165½ | 103½ | 120½ | 116½ | 114        | 5              | ½          | ½               |
| 10 ft.   | 55½ | 93   | 80½ | 94½  | 79½ | 72  | 36½ | 72  | 27½ | 42½ | 42½ | 60½ | 50½ | 31½ | 95½  | 103½ | 87   | 174  | 173½ | 108½ | 131½ | 127  | 120        | 5½             | ½          | ½               |
| 11 ft.   | 61  | 102  | 87½ | 104  | 87½ | 79½ | 39½ | 79½ | 30½ | 45  | 45  | 66½ | 55½ | 33½ | 100½ | 108½ | 95½  | 191½ | 189½ | 118½ | 138½ | 134½ | 132        | 6              | ½          | 1               |
| 12 ft.   | 66½ | 110½ | 95½ | 113½ | 95½ | 86½ | 42½ | 86½ | 32½ | 47½ | 47½ | 72½ | 60½ | 36½ | 105½ | 113½ | 104½ | 208½ | 206  | 128½ | 146½ | 142  | 144        | 6              | ½          | 1               |

Single Inlet

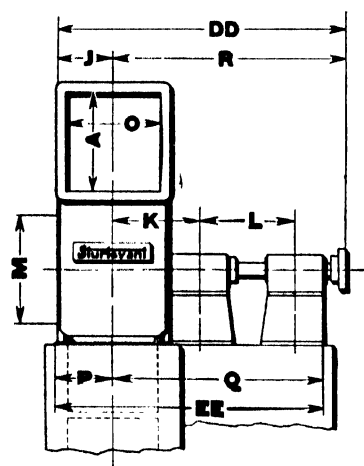
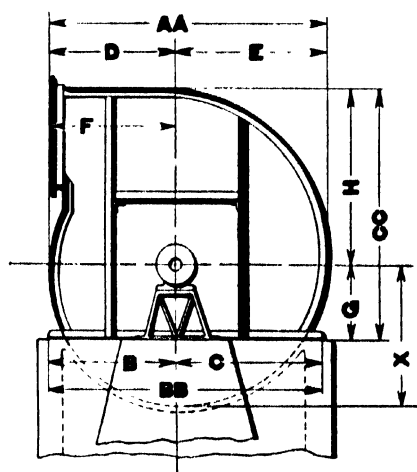
## Steel Plate Fan—Design 2

Single Width

 $\frac{3}{4}$  Housing

Top Horizontal Discharge

Overhung Wheel



| Fan Size  | A  | B  | C   | D  | E   | F  | G  | H   | J  | K  | L  | M  | O  | P  | Q   | R   | X  | AA  | BB  | CC  | DD  | EE  | Wheel Dia. | Shaft Diameter | Anchor Fan | Bolts Pedestals |
|-----------|----|----|-----|----|-----|----|----|-----|----|----|----|----|----|----|-----|-----|----|-----|-----|-----|-----|-----|------------|----------------|------------|-----------------|
| 4 ft.     | 22 | 30 | 35  | 29 | 35  | 28 | 17 | 38  | 12 | 20 | 20 | 24 | 20 | 14 | 47  | 53  | 32 | 64  | 66  | 55  | 65  | 61  | 48         | 2 1/8          | 3          | 3               |
| 4 1/2 ft. | 25 | 34 | 39  | 32 | 39  | 32 | 18 | 42  | 13 | 22 | 22 | 27 | 23 | 16 | 49  | 56  | 36 | 72  | 73  | 61  | 69  | 65  | 54         | 2 1/8          | 3          | 3               |
| 5 ft.     | 28 | 37 | 43  | 36 | 43  | 36 | 20 | 47  | 14 | 23 | 23 | 30 | 25 | 17 | 52  | 58  | 39 | 79  | 81  | 67  | 73  | 69  | 60         | 2 1/8          | 3          | 3               |
| 5 1/2 ft. | 30 | 40 | 47  | 39 | 48  | 39 | 21 | 52  | 16 | 26 | 26 | 33 | 28 | 18 | 58  | 66  | 43 | 87  | 88  | 73  | 82  | 77  | 66         | 3 1/8          | 4          | 3               |
| 6 ft.     | 33 | 44 | 51  | 43 | 52  | 43 | 23 | 56  | 17 | 27 | 27 | 36 | 30 | 19 | 61  | 69  | 47 | 95  | 95  | 80  | 86  | 81  | 72         | 3 1/8          | 4          | 3               |
| 6 1/2 ft. | 36 | 48 | 56  | 46 | 56  | 46 | 26 | 61  | 18 | 30 | 30 | 39 | 33 | 22 | 66  | 74  | 51 | 103 | 105 | 87  | 93  | 89  | 78         | 3 1/8          | 4          | 3               |
| 7 ft.     | 39 | 52 | 61  | 50 | 61  | 50 | 27 | 66  | 19 | 31 | 31 | 42 | 35 | 23 | 69  | 77  | 55 | 111 | 113 | 93  | 96  | 93  | 84         | 3 1/8          | 4          | 3               |
| 7 1/2 ft. | 41 | 55 | 65  | 54 | 65  | 54 | 29 | 71  | 21 | 32 | 32 | 45 | 38 | 25 | 71  | 79  | 59 | 119 | 120 | 100 | 100 | 96  | 90         | 3 1/8          | 4          | 3               |
| 8 ft.     | 44 | 59 | 69  | 57 | 69  | 57 | 30 | 75  | 22 | 35 | 35 | 48 | 40 | 26 | 79  | 86  | 63 | 127 | 128 | 106 | 109 | 105 | 96         | 4              | 4          | 3               |
| 8 1/2 ft. | 47 | 62 | 72  | 61 | 74  | 61 | 32 | 80  | 24 | 36 | 36 | 51 | 43 | 27 | 81  | 89  | 67 | 135 | 135 | 112 | 113 | 109 | 102        | 4              | 4          | 3               |
| 9 ft.     | 50 | 65 | 76  | 64 | 78  | 64 | 33 | 85  | 25 | 37 | 37 | 54 | 45 | 28 | 84  | 91  | 71 | 143 | 142 | 118 | 117 | 112 | 108        | 5              | 4          | 3               |
| 9 1/2 ft. | 52 | 69 | 81  | 68 | 82  | 68 | 35 | 89  | 26 | 39 | 39 | 57 | 48 | 30 | 86  | 94  | 75 | 151 | 150 | 124 | 120 | 116 | 114        | 5              | 4          | 3               |
| 10 ft.    | 55 | 72 | 84  | 72 | 87  | 72 | 36 | 94  | 27 | 42 | 42 | 60 | 50 | 31 | 95  | 103 | 79 | 159 | 157 | 131 | 131 | 127 | 120        | 5 1/2          | 4          | 3               |
| 11 ft.    | 61 | 79 | 92  | 79 | 95  | 79 | 39 | 104 | 30 | 45 | 45 | 66 | 55 | 33 | 100 | 108 | 87 | 175 | 171 | 143 | 138 | 134 | 132        | 6              | 4          | 1               |
| 12 ft.    | 66 | 85 | 100 | 86 | 104 | 86 | 42 | 113 | 32 | 47 | 47 | 72 | 60 | 36 | 105 | 113 | 95 | 190 | 186 | 155 | 146 | 142 | 144        | 6              | 4          | 1               |

Double Inlet

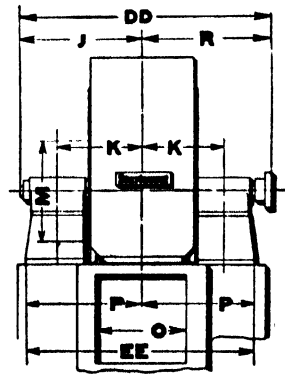
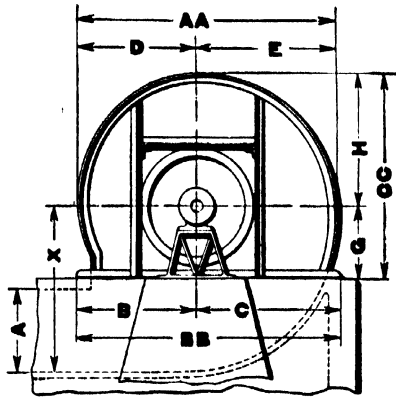
## Steel Plate Fan—Design 2

Single Width

¾ Housing

Bottom Horizontal Discharge

Overhung Pulley



| Fan Size | A   | B   | C   | D   | E    | G   | H   | J   | K   | M  | O   | P   | R   | X    | AA   | BB   | CC   | DD   | EE   | Extreme Wheel Diameter | Shaft Diameter | Anchor Bolts |          |
|----------|-----|-----|-----|-----|------|-----|-----|-----|-----|----|-----|-----|-----|------|------|------|------|------|------|------------------------|----------------|--------------|----------|
|          | Fan |     |     |     |      |     |     |     |     |    |     |     |     |      |      |      |      |      |      |                        |                | Fan          | Pedestal |
| 4 ft.    | 22  | 28½ | 37½ | 29  | 35   | 17  | 32  | 29½ | 20½ | 24 | 20  | 27½ | 32½ | 43   | 64   | 66   | 49   | 62½  | 55½  | 48                     | 2½             | 2            | 2        |
| 4½ ft.   | 24½ | 32  | 41½ | 32½ | 39½  | 18½ | 36  | 30½ | 22  | 27 | 22½ | 29  | 34  | 47½  | 72   | 73½  | 54½  | 64½  | 58   | 54                     | 2½             | 2            | 2        |
| 5 ft.    | 27½ | 35  | 45½ | 36½ | 43½  | 20  | 39½ | 32  | 23½ | 30 | 25  | 30½ | 35½ | 51½  | 79½  | 80½  | 59½  | 67½  | 61   | 60                     | 2½             | 2            | 2        |
| 5½ ft.   | 30½ | 38½ | 49½ | 39½ | 48   | 21½ | 43½ | 36½ | 26  | 33 | 27½ | 34½ | 40½ | 55½  | 87½  | 88   | 65½  | 76½  | 69½  | 66                     | 3½             | 2            | 2        |
| 6 ft.    | 33  | 41  | 53½ | 43½ | 52½  | 23½ | 47½ | 37½ | 27½ | 36 | 30  | 36½ | 41½ | 60½  | 95½  | 94½  | 71½  | 79½  | 72½  | 72                     | 3½             | 2            | 2        |
| 6½ ft.   | 35½ | 45½ | 59½ | 46½ | 56½  | 26  | 51½ | 40½ | 30  | 39 | 32½ | 39½ | 44½ | 65½  | 103½ | 105½ | 77½  | 84½  | 78½  | 78                     | 3½             | 2            | 2        |
| 7 ft.    | 38½ | 49  | 63½ | 50½ | 61½  | 27½ | 55½ | 41½ | 31½ | 42 | 35  | 40½ | 45½ | 70   | 111½ | 112½ | 83½  | 87½  | 81½  | 84                     | 3½             | 2            | 2        |
| 7½ ft.   | 41½ | 52½ | 67½ | 54½ | 65½  | 29  | 59½ | 43  | 32½ | 45 | 37½ | 42½ | 47  | 74½  | 119½ | 120  | 88½  | 90   | 84½  | 90                     | 3½             | 2            | 2        |
| 8 ft.    | 44  | 55½ | 71½ | 57½ | 69½  | 30½ | 63½ | 47½ | 35½ | 48 | 40  | 46½ | 51½ | 78½  | 127½ | 127  | 94½  | 99½  | 93½  | 96                     | 4½             | 2            | 2        |
| 8½ ft.   | 46½ | 58½ | 76  | 61½ | 74   | 32  | 67½ | 49  | 36½ | 51 | 42½ | 48  | 52½ | 82½  | 135½ | 134½ | 99½  | 101½ | 96   | 102                    | 4½             | 2            | 2        |
| 9 ft.    | 49½ | 61½ | 80  | 64½ | 78½  | 33½ | 71½ | 50½ | 37½ | 54 | 45  | 49½ | 54  | 87   | 143½ | 141½ | 105½ | 104½ | 99   | 108                    | 5              | 2            | 2        |
| 9½ ft.   | 52½ | 64½ | 84½ | 68½ | 82½  | 35  | 75½ | 51½ | 39  | 57 | 47½ | 51  | 55½ | 91½  | 151½ | 149  | 110½ | 106½ | 102  | 114                    | 5              | 2            | 2        |
| 10 ft.   | 55  | 67½ | 88½ | 72  | 87   | 36½ | 79½ | 57½ | 42½ | 60 | 50  | 57  | 61  | 95½  | 159  | 156  | 116  | 118½ | 114  | 120                    | 5½             | 2            | 2        |
| 1 ft.    | 60½ | 74  | 96½ | 79½ | 95½  | 39½ | 87½ | 60½ | 45  | 66 | 55  | 59½ | 63½ | 104  | 175  | 170½ | 127  | 123½ | 119½ | 132                    | 6              | 2            | 1        |
| 2 ft.    | 66  | 80½ | 105 | 86½ | 104½ | 42½ | 95½ | 62½ | 47½ | 72 | 60  | 62½ | 66  | 112½ | 190½ | 185½ | 137½ | 128½ | 125½ | 144                    | 6              | 2            | 1        |



Double Inlet

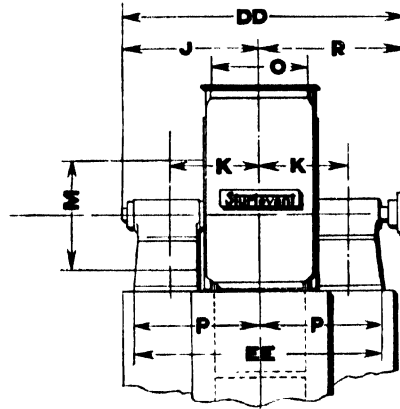
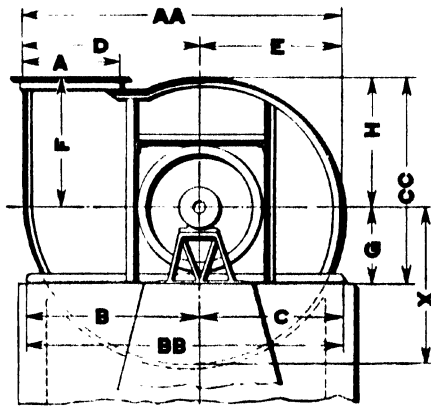
## Steel Plate Fan—Design 2

Single Width

¾ Housing

Up Blast Discharge

Overhung Pulley



| Fan Size | A   | B    | C   | D    | E   | F   | G   | H   | J   | K   | M  | O   | P   | R   | X    | AA   | BB   | CC   | DD   | EE   | Extreme Wheel Diameter | Shaft Diameter | Anchor Bolts |
|----------|-----|------|-----|------|-----|-----|-----|-----|-----|-----|----|-----|-----|-----|------|------|------|------|------|------|------------------------|----------------|--------------|
| 4 ft.    | 22½ | 39½  | 34  | 38   | 32  | 28½ | 17  | 29  | 29½ | 20½ | 24 | 20½ | 27½ | 32½ | 35   | 70   | 73½  | 46   | 62½  | 55½  | 48                     | 2 1/8          | 5            |
| 4½ ft.   | 25½ | 43½  | 38  | 42½  | 36  | 32½ | 18½ | 32½ | 30½ | 22  | 27 | 23  | 29  | 34  | 39½  | 78½  | 81½  | 51½  | 64½  | 58   | 54                     | 2 1/8          | 5            |
| 5 ft.    | 28  | 48   | 41½ | 47½  | 39½ | 36  | 20  | 36½ | 32  | 23½ | 30 | 25½ | 30½ | 35½ | 43½  | 87½  | 89½  | 56½  | 67½  | 61   | 60                     | 2 1/8          | 5            |
| 5½ ft.   | 30½ | 52½  | 45½ | 52½  | 43½ | 39½ | 21½ | 39½ | 36½ | 26  | 33 | 28  | 34½ | 40½ | 48   | 96   | 97½  | 61½  | 76½  | 69½  | 66                     | 3 1/8          | 5            |
| 6 ft.    | 33½ | 56½  | 49  | 56½  | 47½ | 43½ | 23½ | 43½ | 37½ | 27½ | 36 | 30½ | 36½ | 41½ | 52½  | 104½ | 105½ | 66½  | 79½  | 72½  | 72                     | 3 1/8          | 5            |
| 6½ ft.   | 36½ | 62½  | 54  | 61½  | 51½ | 46½ | 26  | 46½ | 40½ | 30  | 39 | 33  | 39½ | 44½ | 56½  | 113½ | 116½ | 72½  | 84½  | 78½  | 78                     | 3 1/8          | 5            |
| 7 ft.    | 39  | 67   | 58  | 66½  | 55½ | 50½ | 27½ | 50½ | 41½ | 31½ | 42 | 35½ | 40½ | 45½ | 61½  | 122½ | 125  | 78½  | 87½  | 81½  | 84                     | 3 1/8          | 5            |
| 7½ ft.   | 41½ | 71½  | 61½ | 71   | 59½ | 54  | 29  | 54½ | 43  | 32½ | 45 | 38  | 42½ | 47  | 65½  | 130½ | 133  | 83½  | 90   | 84½  | 90                     | 3 1/8          | 5            |
| 8 ft.    | 44½ | 75½  | 65½ | 75½  | 63½ | 57½ | 30½ | 57½ | 47½ | 35½ | 48 | 40½ | 46½ | 51½ | 69½  | 139½ | 141½ | 88½  | 99½  | 93½  | 96                     | 4 1/8          | 5            |
| 8½ ft.   | 47½ | 80   | 69  | 80½  | 67½ | 61½ | 32  | 61½ | 49  | 36½ | 51 | 43  | 48  | 52½ | 74   | 148  | 149  | 93½  | 101½ | 96   | 102                    | 4 1/8          | 5            |
| 9 ft.    | 50  | 84½  | 73  | 85½  | 71½ | 64½ | 33½ | 64½ | 50½ | 37½ | 54 | 45½ | 49½ | 54  | 78½  | 156½ | 157½ | 98½  | 104½ | 99   | 108                    | 5              | 5            |
| 9½ ft.   | 52½ | 88½  | 76½ | 89½  | 75½ | 68½ | 35  | 68½ | 51½ | 39  | 57 | 48  | 51  | 55½ | 82½  | 165½ | 165½ | 103½ | 106½ | 102  | 114                    | 5              | 5            |
| 10 ft.   | 55½ | 93   | 80½ | 94½  | 79½ | 72  | 36½ | 72  | 57½ | 42½ | 60 | 50½ | 57  | 61  | 87   | 174  | 173  | 108½ | 118½ | 114  | 120                    | 5½             | 5            |
| 11 ft.   | 61  | 102  | 87½ | 104  | 87½ | 79½ | 39½ | 79½ | 60½ | 45  | 66 | 55½ | 59½ | 63½ | 95½  | 191½ | 189½ | 118½ | 123½ | 119½ | 132                    | 6              | 6            |
| 12 ft.   | 66½ | 110½ | 95½ | 113½ | 95½ | 86½ | 42½ | 86½ | 62½ | 47½ | 72 | 60½ | 62½ | 66  | 104½ | 208½ | 206  | 128½ | 128½ | 125½ | 144                    | 6              | 6            |

Double Inlet

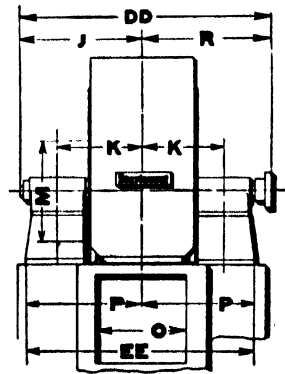
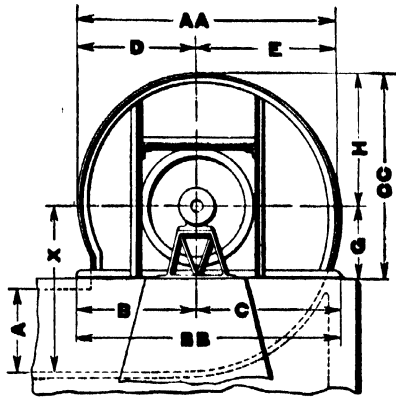
## Steel Plate Fan—Design 2

Single Width

¾ Housing

Bottom Horizontal Discharge

Overhung Pulley



| Fan Size | A   | B   | C   | D   | E    | G   | H   | J   | K   | M  | O   | P   | R   | X    | AA   | BB   | CC   | DD   | EE   | Extreme Wheel Diameter | Shaft Diameter | Anchor Bolts |          |
|----------|-----|-----|-----|-----|------|-----|-----|-----|-----|----|-----|-----|-----|------|------|------|------|------|------|------------------------|----------------|--------------|----------|
|          | Fan |     |     |     |      |     |     |     |     |    |     |     |     |      |      |      |      |      |      |                        |                | Fan          | Pedestal |
| 4 ft.    | 22  | 28½ | 37½ | 29  | 35   | 17  | 32  | 29½ | 20½ | 24 | 20  | 27½ | 32½ | 43   | 64   | 66   | 49   | 62½  | 55½  | 48                     | 2½             | 2            | 2        |
| 4½ ft.   | 24½ | 32  | 41½ | 32½ | 39½  | 18½ | 36  | 30½ | 22  | 27 | 22½ | 29  | 34  | 47½  | 72   | 73½  | 54½  | 64½  | 58   | 54                     | 2½             | 2            | 2        |
| 5 ft.    | 27½ | 35  | 45½ | 36½ | 43½  | 20  | 39½ | 32  | 23½ | 30 | 25  | 30½ | 35½ | 51½  | 79½  | 80½  | 59½  | 67½  | 61   | 60                     | 2½             | 2            | 2        |
| 5½ ft.   | 30½ | 38½ | 49½ | 39½ | 48   | 21½ | 43½ | 36½ | 26  | 33 | 27½ | 34½ | 40½ | 55½  | 87½  | 88   | 65½  | 76½  | 69½  | 66                     | 3½             | 2            | 2        |
| 6 ft.    | 33  | 41  | 53½ | 43½ | 52½  | 23½ | 47½ | 37½ | 27½ | 36 | 30  | 36½ | 41½ | 60½  | 95½  | 94½  | 71½  | 79½  | 72½  | 72                     | 3½             | 2            | 2        |
| 6½ ft.   | 35½ | 45½ | 59½ | 46½ | 56½  | 26  | 51½ | 40½ | 30  | 39 | 32½ | 39½ | 44½ | 65½  | 103½ | 105½ | 77½  | 84½  | 78½  | 78                     | 3½             | 2            | 2        |
| 7 ft.    | 38½ | 49  | 63½ | 50½ | 61½  | 27½ | 55½ | 41½ | 31½ | 42 | 35  | 40½ | 45½ | 70   | 111½ | 112½ | 83½  | 87½  | 81½  | 84                     | 3½             | 2            | 2        |
| 7½ ft.   | 41½ | 52½ | 67½ | 54½ | 65½  | 29  | 59½ | 43  | 32½ | 45 | 37½ | 42½ | 47  | 74½  | 119½ | 120  | 88½  | 90   | 84½  | 90                     | 3½             | 2            | 2        |
| 8 ft.    | 44  | 55½ | 71½ | 57½ | 69½  | 30½ | 63½ | 47½ | 35½ | 48 | 40  | 46½ | 51½ | 78½  | 127½ | 127  | 94½  | 99½  | 93½  | 96                     | 4½             | 2            | 2        |
| 8½ ft.   | 46½ | 58½ | 76  | 61½ | 74   | 32  | 67½ | 49  | 36½ | 51 | 42½ | 48  | 52½ | 82½  | 135½ | 134½ | 99½  | 101½ | 96   | 102                    | 4½             | 2            | 2        |
| 9 ft.    | 49½ | 61½ | 80  | 64½ | 78½  | 33½ | 71½ | 50½ | 37½ | 54 | 45  | 49½ | 54  | 87   | 143½ | 141½ | 105½ | 104½ | 99   | 108                    | 5              | 2            | 2        |
| 9½ ft.   | 52½ | 64½ | 84½ | 68½ | 82½  | 35  | 75½ | 51½ | 39  | 57 | 47½ | 51  | 55½ | 91½  | 151½ | 149  | 110½ | 106½ | 102  | 114                    | 5              | 2            | 2        |
| 10 ft.   | 55  | 67½ | 88½ | 72  | 87   | 36½ | 79½ | 57½ | 42½ | 60 | 50  | 57  | 61  | 95½  | 159  | 156  | 116  | 118½ | 114  | 120                    | 5½             | 2            | 2        |
| 1 ft.    | 60½ | 74  | 96½ | 79½ | 95½  | 39½ | 87½ | 60½ | 45  | 66 | 55  | 59½ | 63½ | 104  | 175  | 170½ | 127  | 123½ | 119½ | 132                    | 6              | 2            | 1        |
| 2 ft.    | 66  | 80½ | 105 | 86½ | 104½ | 42½ | 95½ | 62½ | 47½ | 72 | 60  | 62½ | 66  | 112½ | 190½ | 185½ | 137½ | 128½ | 125½ | 144                    | 6              | 2            | 1        |

Double Inlet

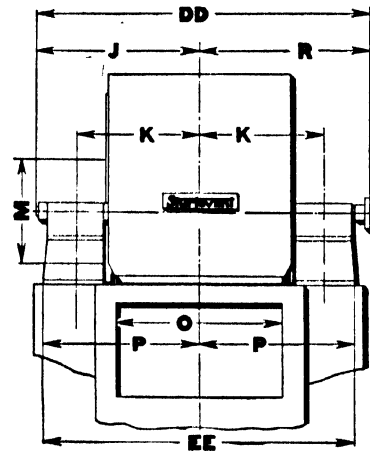
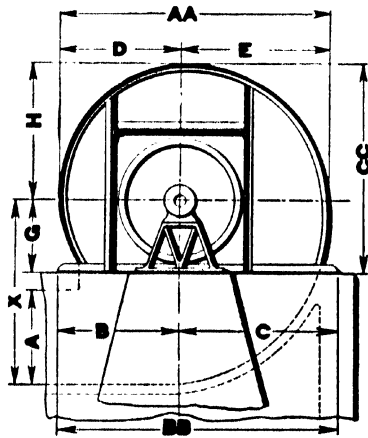
## Steel Plate Fan—Design 2

Double Width

 $\frac{3}{4}$  Housing

Bottom Horizontal Discharge

Overhung Pulley



| Fan Size | A   | B   | C   | D   | E    | G   | H   | J   | K   | M  | O   | P   | R   | X    | AA   | BB   | CC   | DD   | EE   | Extreme Wheel Diameter | Shaft Diameter | Anchor Bolts |          |   |
|----------|-----|-----|-----|-----|------|-----|-----|-----|-----|----|-----|-----|-----|------|------|------|------|------|------|------------------------|----------------|--------------|----------|---|
|          | Fan |     |     |     |      |     |     |     |     |    |     |     |     |      |      |      |      |      |      |                        |                | Fan          | Pedestal |   |
| 4 ft.    | 22  | 28½ | 37½ | 29  | 35   | 17  | 32  | 30½ | 30½ | 24 | 40  | 37½ | 42½ | 43   | 64   | 66   | 49   | 82½  | 75½  | 48                     | 2 11⁄16        | 5⁄8          | 2        | 2 |
| 4½ ft.   | 24½ | 32  | 41½ | 32½ | 39½  | 18½ | 36  | 42  | 33½ | 27 | 45  | 40½ | 45½ | 47½  | 72   | 73½  | 54½  | 87½  | 80½  | 54                     | 2 11⁄16        | 5⁄8          | 2        | 2 |
| 5 ft.    | 27½ | 35  | 45½ | 36½ | 43½  | 20  | 39½ | 44½ | 35½ | 30 | 50  | 43½ | 47½ | 51½  | 79½  | 80½  | 59½  | 92½  | 86   | 60                     | 2 11⁄16        | 3⁄4          | 2        | 2 |
| 5½ ft.   | 30½ | 38½ | 49½ | 39½ | 48   | 21½ | 43½ | 49½ | 39½ | 33 | 55  | 48½ | 54½ | 55½  | 87½  | 88   | 65½  | 104½ | 97   | 66                     | 3 1⁄8          | 3⁄4          | 2        | 2 |
| 6 ft.    | 33  | 41  | 53½ | 43½ | 52½  | 23½ | 47½ | 52½ | 42½ | 36 | 60  | 51½ | 56½ | 60½  | 95½  | 94½  | 71½  | 109½ | 102½ | 72                     | 3 1⁄8          | 3⁄4          | 2        | 2 |
| 6½ ft.   | 35½ | 45½ | 59½ | 46½ | 56½  | 26  | 51½ | 56½ | 46½ | 39 | 65  | 55½ | 60½ | 65½  | 103½ | 105½ | 77½  | 117½ | 111  | 78                     | 3 1⁄8          | 3⁄4          | 2        | 2 |
| 7 ft.    | 38½ | 49  | 63½ | 50½ | 61½  | 27½ | 55½ | 59½ | 48½ | 42 | 70  | 58½ | 63½ | 70   | 111½ | 112½ | 83½  | 122½ | 116½ | 84                     | 3 1⁄8          | 3⁄4          | 2        | 2 |
| 7½ ft.   | 41½ | 52½ | 67½ | 54½ | 65½  | 29  | 59½ | 61½ | 51½ | 45 | 75  | 61  | 65½ | 74½  | 119½ | 120  | 88½  | 127½ | 122  | 90                     | 3 1⁄8          | 3⁄4          | 2        | 2 |
| 8 ft.    | 44  | 55½ | 71½ | 57½ | 69½  | 30½ | 63½ | 67½ | 55½ | 48 | 80  | 66½ | 71½ | 78½  | 127½ | 127  | 94½  | 139½ | 133½ | 96                     | 4 1⁄8          | 3⁄4          | 2        | 2 |
| 8½ ft.   | 46½ | 58½ | 76  | 61½ | 74   | 32  | 67½ | 70½ | 57½ | 51 | 85  | 69½ | 74  | 82½  | 135½ | 134½ | 99½  | 144½ | 138½ | 102                    | 4 1⁄8          | 3⁄4          | 2        | 2 |
| 9 ft.    | 49½ | 61½ | 80  | 64½ | 78½  | 33½ | 71½ | 72½ | 60½ | 54 | 90  | 72  | 76½ | 87   | 143½ | 141½ | 105½ | 149½ | 144  | 108                    | 5              | 3⁄4          | 2        | 2 |
| 9½ ft.   | 52½ | 64½ | 84½ | 68½ | 82½  | 35  | 75½ | 75½ | 62½ | 57 | 95  | 74½ | 79  | 91½  | 151½ | 149  | 110½ | 154½ | 149½ | 114                    | 5              | 3⁄4          | 2        | 2 |
| 10 ft.   | 55  | 67½ | 88½ | 72  | 87   | 36½ | 79½ | 82½ | 67½ | 60 | 100 | 82  | 86  | 95½  | 159  | 156  | 116  | 168½ | 164  | 120                    | 5½             | 3⁄4          | 2        | 2 |
| 11 ft.   | 60½ | 74  | 96½ | 79½ | 95½  | 39½ | 87½ | 87½ | 72½ | 66 | 110 | 87½ | 91  | 104  | 175  | 170½ | 127  | 178½ | 174½ | 132                    | 6              | 2            | 1        | 1 |
| 12 ft.   | 66  | 80½ | 105 | 86½ | 104½ | 42½ | 95½ | 92½ | 77½ | 72 | 120 | 92½ | 96  | 112½ | 190½ | 185½ | 137½ | 188½ | 185½ | 144                    | 6              | 2            | 1        | 1 |

Double Inlet

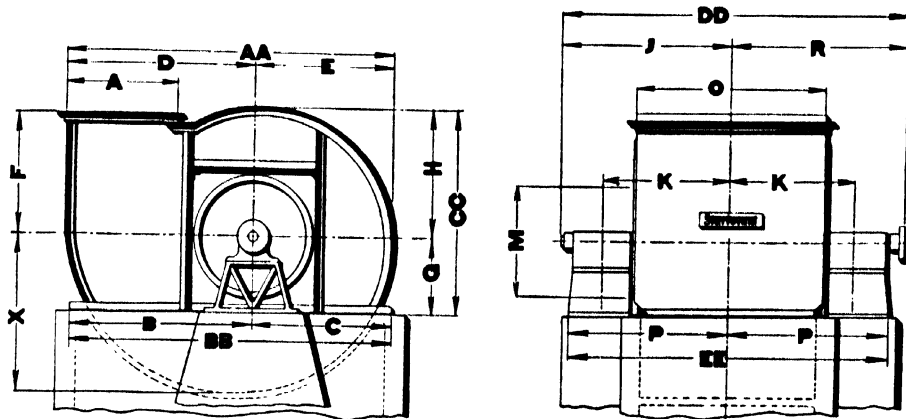
## Steel Plate Fan—Design 2

Double Width

 $\frac{3}{4}$  Housing

Up Blast Discharge

Overhung Pulley



| Fan Size | A   | B    | C   | D    | E   | F   | G   | H   | J   | K   | M  | O    | P   | R   | X    | AA   | BB   | CC   | DD   | EE   | Wheel Diameter | Shaft Diameter | Anchor Bolts |      |   |
|----------|-----|------|-----|------|-----|-----|-----|-----|-----|-----|----|------|-----|-----|------|------|------|------|------|------|----------------|----------------|--------------|------|---|
|          |     |      |     |      |     |     |     |     |     |     |    |      |     |     |      |      |      |      |      |      |                |                | Fan          | Pad. |   |
| 1 ft.    | 22½ | 39½  | 31  | 38   | 32  | 28½ | 17  | 29  | 39½ | 30½ | 24 | 40½  | 37½ | 42½ | 35   | 70   | 73½  | 46   | 82½  | 75½  | 48             | 2½             | 2            | 2    | 2 |
| 1½ ft.   | 25½ | 43½  | 38  | 42½  | 36  | 32½ | 18½ | 32½ | 42  | 33½ | 27 | 45½  | 40½ | 45½ | 39½  | 78½  | 81½  | 51½  | 87½  | 80½  | 54             | 2½             | 2            | 2    | 2 |
| 5 ft.    | 28  | 48   | 41½ | 47½  | 39½ | 36  | 20  | 36½ | 44½ | 35½ | 30 | 50½  | 43  | 47½ | 43½  | 87½  | 89½  | 56½  | 92½  | 86   | 60             | 2½             | 2            | 2    | 2 |
| 5½ ft.   | 30½ | 52½  | 45½ | 52½  | 43½ | 39½ | 21½ | 39½ | 49½ | 39½ | 33 | 55½  | 48½ | 54½ | 48   | 96   | 97½  | 61½  | 104½ | 97   | 66             | 3½             | 2            | 2    | 2 |
| 6 ft.    | 33½ | 56½  | 49  | 56½  | 47½ | 43½ | 23½ | 43½ | 52½ | 42½ | 36 | 60½  | 51½ | 56½ | 52½  | 104½ | 105½ | 66½  | 109½ | 102½ | 72             | 3½             | 2            | 2    | 2 |
| 6½ ft.   | 36½ | 62½  | 54  | 61½  | 51½ | 46½ | 26  | 46½ | 56½ | 46½ | 39 | 65½  | 55½ | 60½ | 56½  | 113½ | 116½ | 72½  | 117½ | 111  | 78             | 3½             | 2            | 2    | 2 |
| 7 ft.    | 39  | 67   | 58  | 66½  | 55½ | 50½ | 27½ | 50½ | 59½ | 48½ | 42 | 70½  | 58½ | 63½ | 61½  | 122½ | 125  | 78½  | 122½ | 116½ | 84             | 3½             | 2            | 2    | 2 |
| 7½ ft.   | 41½ | 71½  | 61½ | 71   | 59½ | 54  | 29  | 54½ | 61½ | 51½ | 45 | 75½  | 61  | 65½ | 65½  | 130½ | 133  | 83½  | 127½ | 122  | 90             | 3½             | 2            | 2    | 2 |
| 8 ft.    | 44½ | 75½  | 65½ | 75½  | 63½ | 57½ | 30½ | 57½ | 67½ | 55½ | 48 | 80½  | 66½ | 71½ | 69½  | 139½ | 141½ | 88½  | 139½ | 133½ | 96             | 4½             | 2            | 2    | 2 |
| 8½ ft.   | 47½ | 80   | 69  | 80½  | 67½ | 61½ | 32  | 61½ | 70½ | 57½ | 51 | 85½  | 69½ | 74  | 74   | 148  | 149  | 93½  | 144½ | 138½ | 102            | 4½             | 2            | 2    | 2 |
| 9 ft.    | 50  | 84½  | 73  | 85½  | 71½ | 64½ | 33½ | 64½ | 72½ | 60½ | 54 | 90½  | 72  | 76½ | 78½  | 156½ | 157½ | 98½  | 149½ | 144  | 108            | 5              | 2            | 2    | 2 |
| 9½ ft.   | 52½ | 88½  | 76½ | 89½  | 75½ | 68½ | 35  | 68½ | 75½ | 62½ | 57 | 95½  | 74½ | 79  | 82½  | 165½ | 165½ | 103½ | 154½ | 149½ | 114            | 5              | 2            | 2    | 2 |
| 10 ft.   | 55½ | 93   | 80½ | 94½  | 79½ | 72  | 36½ | 72  | 82½ | 67½ | 60 | 100½ | 82  | 86  | 87   | 174  | 173½ | 108½ | 168½ | 164  | 120            | 5½             | 2            | 2    | 2 |
| 11 ft.   | 61  | 102  | 87½ | 104  | 87½ | 79½ | 39½ | 79½ | 87½ | 72½ | 66 | 110½ | 87½ | 91  | 95½  | 191½ | 189½ | 118½ | 178½ | 174½ | 132            | 6              | 2            | 1    | 2 |
| 12 ft.   | 66½ | 110½ | 95½ | 113½ | 95½ | 86½ | 42½ | 86½ | 92½ | 77½ | 72 | 120½ | 92½ | 96  | 104½ | 208½ | 206  | 128½ | 188½ | 185½ | 144            | 6              | 2            | 1    | 2 |

Double Inlet

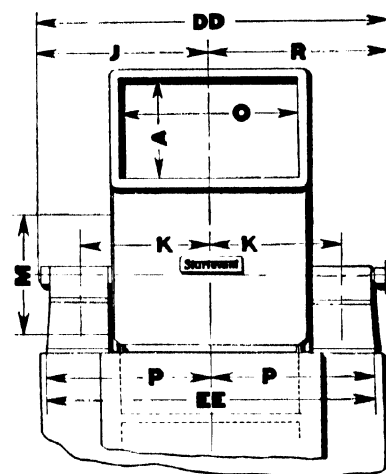
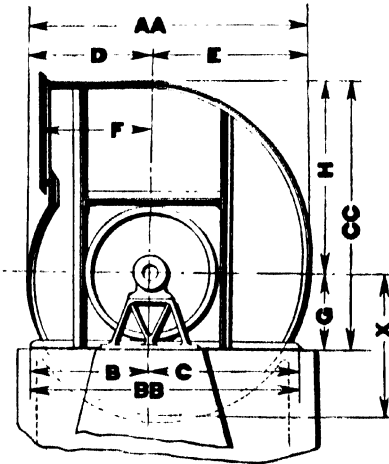
## Steel Plate Fan—Design 2

Double Width

34 Housing

Top Horizontal Discharge

Overhung Pulley



| Fan Size | A   | B   | C    | D   | E    | F   | G   | H    | J   | K   | M  | O    | P   | R   | X   | AA   | BB   | CC   | DD   | EE   | Wheel Diameter | Shaft Diameter | Anchor Fan | Bolts Pedestal |
|----------|-----|-----|------|-----|------|-----|-----|------|-----|-----|----|------|-----|-----|-----|------|------|------|------|------|----------------|----------------|------------|----------------|
| 4 ft.    | 22½ | 30½ | 35½  | 29  | 35   | 28½ | 17  | 38   | 39½ | 30½ | 24 | 40½  | 37½ | 42½ | 32  | 64   | 66½  | 55   | 82½  | 75½  | 48             | 2½             | 5          | 5              |
| 4½ ft.   | 25½ | 34  | 39½  | 32½ | 39½  | 32½ | 18½ | 42½  | 42  | 33½ | 27 | 45½  | 40½ | 45½ | 36  | 72   | 73½  | 61½  | 87½  | 80½  | 54             | 2½             | 5          | 5              |
| 5 ft.    | 28  | 37½ | 43½  | 36½ | 43½  | 36½ | 20  | 47½  | 44½ | 35½ | 30 | 50½  | 43  | 47½ | 39½ | 79½  | 81½  | 67½  | 92½  | 86   | 60             | 2½             | 5          | 5              |
| 5½ ft.   | 30½ | 40½ | 47½  | 39½ | 48   | 39½ | 21½ | 52½  | 49½ | 39½ | 33 | 55½  | 48½ | 54½ | 43½ | 87½  | 88½  | 73½  | 104½ | 97   | 66             | 3½             | 5          | 5              |
| 6 ft.    | 33½ | 44  | 51½  | 43½ | 52½  | 43½ | 23½ | 56½  | 52½ | 42½ | 36 | 60½  | 51½ | 56½ | 47½ | 95½  | 95½  | 80½  | 109½ | 102½ | 72             | 3½             | 5          | 5              |
| 6½ ft.   | 36½ | 48½ | 56½  | 46½ | 56½  | 46½ | 26  | 61½  | 56½ | 46½ | 39 | 65½  | 55½ | 60½ | 51½ | 103½ | 105½ | 87½  | 117½ | 111  | 78             | 3½             | 5          | 5              |
| 7 ft.    | 39  | 52½ | 61½  | 50½ | 61½  | 50½ | 27½ | 66½  | 59½ | 48½ | 42 | 70½  | 58½ | 63½ | 55½ | 111½ | 113½ | 93½  | 122½ | 116½ | 84             | 3½             | 5          | 5              |
| 7½ ft.   | 41½ | 55½ | 65   | 54½ | 65   | 54½ | 29  | 71   | 61½ | 51½ | 45 | 75½  | 61  | 65½ | 59½ | 119½ | 120½ | 100  | 127½ | 122  | 90             | 3½             | 5          | 5              |
| 8 ft.    | 44½ | 59  | 69   | 57½ | 69   | 57½ | 30½ | 75½  | 67½ | 55½ | 48 | 80½  | 66½ | 71½ | 63½ | 127½ | 128  | 106½ | 139½ | 133½ | 96             | 4½             | 5          | 5              |
| 8½ ft.   | 47½ | 62½ | 72½  | 61½ | 74   | 61½ | 32  | 80½  | 70½ | 57½ | 51 | 85½  | 69½ | 74  | 67½ | 135½ | 135  | 112½ | 144½ | 138½ | 102            | 4½             | 5          | 5              |
| 9 ft.    | 50  | 65½ | 76½  | 64½ | 78   | 64½ | 33½ | 85½  | 72½ | 60½ | 54 | 90½  | 72  | 76½ | 71½ | 143½ | 142  | 118½ | 149½ | 144  | 108            | 5              | 5          | 5              |
| 9½ ft.   | 52½ | 69  | 81   | 68½ | 82½  | 68½ | 35  | 89½  | 75½ | 62½ | 57 | 95½  | 74½ | 79  | 75½ | 151½ | 150  | 124½ | 154½ | 149½ | 114            | 5              | 5          | 5              |
| 10 ft.   | 55½ | 72½ | 84½  | 72  | 87   | 72  | 36½ | 94½  | 82½ | 67½ | 60 | 100½ | 82  | 86  | 79½ | 159  | 157  | 131  | 168½ | 164  | 120            | 5½             | 5          | 5              |
| 11 ft.   | 61  | 79  | 92½  | 79½ | 95½  | 79½ | 39½ | 104  | 87½ | 72½ | 66 | 110½ | 87½ | 91  | 87½ | 175  | 171½ | 143½ | 178½ | 174½ | 132            | 6              | 5          | 5              |
| 12 ft.   | 66½ | 85½ | 100½ | 86½ | 104½ | 86½ | 42½ | 113½ | 92½ | 77½ | 72 | 120½ | 92½ | 96  | 95½ | 190½ | 186½ | 155½ | 188½ | 185½ | 144            | 6              | 5          | 5              |



### Single Width

**When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances**

[illegible]

### Single Width

**When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances**

[illegible]



### Single Width

[illegible]

### Single Width

**When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances**

| R.P.M. | Tip<br>Speed<br>F.P.M. | S.N.D.<br>in<br>Inches | Volume<br>C.F.M.   | H. P.       | Volume<br>C.F.M.   | H. P.       | Volume<br>C.F.M.   | H. P. | Volume<br>C.F.M.   | H. P.       | Volume<br>C.F.M.   | H. P.     | Volume<br>C.F.M.   | H. P.     | Volume<br>C.F.M.  | H. P.     | Volume<br>C.F.M. | H. P. |
|--------|------------------------|------------------------|--|-------------|--|-------------|--|-------|--|-------------|--|-----------|--|-----------|---|-----------|------------------|-------|
|        |                        |                        | Static Pressure<br>3 1/2" Water<br>2.02 ozs. per<br>sq. inch |             | Static Pressure<br>4" Water<br>2.31 ozs. per<br>sq. inch |             | Static Pressure<br>5" Water<br>2.89 ozs. per<br>sq. inch |       | Static Pressure<br>6" Water<br>3.47 ozs. per<br>sq. inch |             | Static Pressure<br>7" Water<br>4.04 ozs. per<br>sq. inch |           | Static Pressure<br>8" Water<br>4.62 ozs. per<br>sq. inch |           | Static Pressure<br>9" Water<br>5.2 ozs. per<br>sq. inch |           |                  |       |
| 460    | 6,500                  | 3 33                   | 5,130  | 4 5         |  |             |  |       |  |             |  |           |  |           |   |           |                  |       |
| 477    | 6,750                  | 3 60                   | 7,060  | 6 8         |  |             |  |       |  |             |  |           |  |           |   |           |                  |       |
| 495    | 7,000                  | 3 88                   | 9,520  | 8 4         | 6,370  | 6 2         |  |       |  |             |  |           |  |           |   |           |                  |       |
| 512    | 7,250                  | 4 15                   | <u>10,800</u>  | <u>10 0</u> | 8,090  | 8 5         |  |       |  |             |  |           |  |           |   |           |                  |       |
| 532    | 7,500                  | 4 45                   | 12,000   | 11 5        | 10,300   | 10 5        |  |       |  |             |  |           |  |           |   |           |                  |       |
| 548    | 7,750                  | 4 75                   | 13,000   | 13 5        | <u>11,600</u>  | <u>12 5</u> | 6,030  | 7 6   |  |             |  |           |  |           |   |           |                  |       |
| 566    | 8,000                  | 5 06                   | 14,000   | 15 0        | <u>12,700</u>  | <u>14</u>   | 9,020  | 11 0  |  |             |  |           |  |           |   |           |                  |       |
| 583    | 8,250                  | 5 37                   | 15,000   | 17 0        | 13,800   | 16          | 10,700   | 13 5  |  |             |  |           |  |           |   |           |                  |       |
| 601    | 8,500                  | 5 71                   | 16,000   | 19 5        | 14,000   | 18          | 12,100   | 15 5  | 6,620  | 10 0        |  |           |  |           |   |           |                  |       |
| 618    | 8,750                  | 6 05                   | 16,800   | 21 5        | 15,700   | 20          | <u>13,400</u>  | 18    | 9,620  | 14 5        |  |           |  |           |   |           |                  |       |
| 636    | 9,000                  | 6 41                   | 17,800   | 24          | 16,700   | 23          | <u>14,300</u>  | 20    | 11,400   | 17 0        |  |           |  |           |   |           |                  |       |
| 672    | 9,500                  | 7 14                   | 19,400   | 30          | 18,400   | 28          | 16,600   | 25    | <u>14,300</u>  | <u>22 5</u> | 11,000   | 18 5      |  |           |   |           |                  |       |
| 708    | 10,000                 | 7 91                   | 21,100   | 36          | 20,200   | 34          | 18,400   | 31    | 16,500   | 28          | <u>14,100</u>  | 25        | 10,300   | 20        |   |           |                  |       |
| 743    | 10,500                 | 8 72                   |  |             | 21,900   | 41          | 20,400   | 38    | 18,600   | 35          | <u>16,600</u>  | <u>32</u> | 14,100   | 28        | 9,540   | 21        |                  |       |
| 779    | 11,000                 | 9 57                   |  |             | 23,700   | 48          | 22,100   | 44    | 20,400   | 41          | 18,700   | 39        | <u>16,700</u>  | <u>35</u> | 14,000  | 31        |                  |       |
| 811    | 11,500                 | 10 5                   |  |             |  |             | 23,700   | 52    | 22,100   | 50          | 20,600   | 46        | 18,900   | 43        | <u>16,800</u>   | <u>39</u> |                  |       |
| 850    | 12,000                 | 11 4                   |  |             |  |             | 25,400   | 62    | 23,900   | 58          | 22,500   | 54        | 21,000   | 52        | 19,100  | 48        |                  |       |
| 885    | 12,500                 | 12 1                   |  |             |  |             |  |       | 25,600   | 68          | 24,300   | 64        | 22,800   | 60        | 21,300  | 56        |                  |       |
| 920    | 13,000                 | 13 1                   |  |             |  |             |  |       | 27,300   | 78          | 26,100   | 74        | 24,700   | 70        | 23,200  | 66        |                  |       |
| 955    | 13,500                 | 14 1                   |  |             |  |             |  |       | 29,000   | 90          | 27,700   | 86        | 26,400   | 80        | 25,100  | 76        |                  |       |
| 990    | 14,000                 | 15 5                   |  |             |  |             |  |       |  |             | 29,500   | 98        | 28,200   | 92        | 26,900  | 88        |                  |       |

| R.P.M. | Tip<br>Speed<br>F.P.M. | S.N.D.<br>in<br>inches | Static Pressure<br>10" Water<br>5.78 ozs. per<br>sq. inch | Static Pressure<br>11" Water<br>6.36 ozs. per<br>sq. inch | Static Pressure<br>12" Water<br>6.93 ozs. per<br>sq. inch | Static Pressure<br>13" Water<br>7.51 ozs. per<br>sq. inch | Static Pressure<br>14" Water<br>8.09 ozs. per<br>sq. inch | Static Pressure<br>15" Water<br>8.67 ozs. per<br>sq. inch | Static Pressure<br>00" Water<br>0.00 ozs. per<br>sq. inch |
|--------|------------------------|------------------------|---|---|---|---|---|---|---|
| 779    | 11,000                 | 9.57                   | 9,100 22.5  |   |   |   |   |   |   |
| 814    | 11,500                 | 10.5                   | 11,100 35   | 8,950 24.5  |   |   |   |   |   |
| 850    | 12,000                 | 11.4                   | 12,100 44   | 11,300 39   | 9,200 28  |   |   |   |   |
| 885    | 12,500                 | 12.4                   | 19,400 52   | 17,500 49   | 14,800 43   | 9,630 31  |   |   |   |
| 920    | 13,000                 | 13.4                   | 21,600 62   | 20,000 58   | 18,000 54   | 15,400 49   | 10,400 36   |   |   |
| 955    | 13,500                 | 14.4                   | 23,600 74   | 22,200 70   | 20,500 66   | 18,500 60   | 15,900 54   | 11,600 43   |   |
| 990    | 14,000                 | 15.5                   | 25,600 84   | 24,200 80   | 22,700 78   | 21,000 72   | 19,100 68   | 16,600 60   |   |



### Single Width

**When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances**

[illegible]

Single Inlet

**5½" Steel Plate Fan—Design 2**

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.                                   | H. P. | Volume C.F.M.                                    | H. P. | Volume C.F.M.                                   | H. P. | Volume C.F.M.                                    | H. P. | Volume C.F.M.                                   | H. P. | Volume C.F.M.                                    | H. P. | Volume C.F.M.                                   | H. P. |
|--------|------------------|------------------|---|-------|--|-------|---|-------|--|-------|---|-------|--|-------|---|-------|
|        |                  |                  | Static Pressure ½" Water .072 ozs. per sq. inch |       | Static Pressure ¾" Water .145 ozs. per sq. inch  |       | Static Pressure 1" Water .217 ozs. per sq. inch |       | Static Pressure 1½" Water .289 ozs. per sq. inch |       | Static Pressure 2" Water .361 ozs. per sq. inch |       | Static Pressure 2½" Water .434 ozs. per sq. inch |       | Static Pressure 3" Water .506 ozs. per sq. inch |       |
| 81     | 1400             | 0 155            | 3 260   | 0 110 |  |       |   |       |  |       |   |       |  |       |   |       |
| 93     | 1600             | 0 202            | 4 460   | 0 19  |  |       |   |       |  |       |   |       |  |       |   |       |
| 104    | 1800             | 0 256            | 5 520   | 0 29  | 3 140  | 0 190 |   |       |  |       |   |       |  |       |   |       |
| 116    | 2000             | 0 316            | 6 460   | 0 44  | 4 750  | 0 330 |   |       |  |       |   |       |  |       |   |       |
| 127    | 2200             | 0 383            | 7 380   | 0 59  | 5 980  | 0 485 | 3 800   | 0 315 |  |       |   |       |  |       |   |       |
| 139    | 2400             | 0 456            | 8 250   | 0 79  | 7 080  | 0 68  | 5 480   | 0 55  |  |       |   |       |  |       |   |       |
| 150    | 2600             | 0 531            | 9 050   | 1 00  | 8 050  | 0 91  | 6 750   | 0 77  | 4 980  | 0 62  |   |       |  |       |   |       |
| 162    | 2800             | 0 620            | 9 950   | 1 25  | 9 030  | 1 2   | 7 870   | 1 05  | 6 530  | 0 88  | 4 400   | 0 67  |  |       |   |       |
| 174    | 3000             | 0 712            | 10 900  | 1 65  |  |       | 8 950   | 1 35  | 7 850  | 1 20  | 6 350   | 1 00  | 3 520  | 0 66  |   |       |
| 185    | 3200             | 0 810            | 11 600  | 2 06  |  |       | 9 920   | 1 70  | 8 930  | 1 55  | 7 750   | 1 35  | 6 210  | 1 15  |   |       |
| 197    | 3400             | 0 914            | 12 500  | 2 45  |  |       | 10 900  | 2 15  | 10 000   | 1 95  | 8 910   | 1 75  | 7 580  | 1 50  | 6 200   | 1 35  |
| 208    | 3600             | 1 02             | 13 300  | 2 85  |  |       |   |       | 11 000   | 2 30  | 10 000  | 2 2   | 9 000  | 2 00  | 7 920   | 1 80  |
| 220    | 3800             | 1 14             | 14 200  | 3 4   |  |       |   |       | 12 000   | 2 95  | 11 200  | 2 7   | 10 200   | 2 50  | 9 300   | 2 30  |
| 232    | 4000             | 1 27             | 14 900  | 4 0   |  |       |   |       |  |       | 12 200  | 3 3   | 11 400   | 3 05  | 10 500  | 2 85  |
| 243    | 4200             | 1 39             | 15 700  | 4 6   |  |       |   |       |  |       | 13 200  | 3 9   | 12 400   | 3 70  | 11 600  | 3 40  |
| 255    | 4400             | 1 53             | 16 600  | 5 4   |  |       |   |       |  |       | 11 200  | 4 6   | 13 400   | 4 35  | 12 700  | 4 10  |
| 266    | 4600             | 1 67             | 17 400  | 6 1   |  |       |   |       |  |       |   |       | 14 400   | 5 2   | 13 800  | 4 85  |
| 278    | 4800             | 1 82             | 18 200  | 7     |  |       |   |       |  |       |   |       | 15 300   | 5 9   | 14 800  | 5 7   |
| 289    | 5000             | 1 98             | 19 000  | 8     |  |       |   |       |  |       |   |       |  |       | 15 800  | 6 7   |
|        |                  |                  |   |       |  |       |   |       |  |       |   |       |  |       |   |       |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 ozs. per sq. inch |       | Static Pressure 1½" Water .723 ozs. per sq. inch |       | Static Pressure 2" Water .866 ozs. per sq. inch |       | Static Pressure 2½" Water 1.01 ozs. per sq. inch |       | Static Pressure 3" Water 1.16 ozs. per sq. inch |       | Static Pressure 3½" Water 1.46 ozs. per sq. inch |       | Static Pressure 4" Water 1.73 ozs. per sq. inch |       |
| 208    | 3600             | 1 02             | 6 270   | 1 55  |  |       |   |       |  |       |   |       |  |       |   |       |
| 220    | 3800             | 1 14             | 8 050   | 2 05  |  |       |   |       |  |       |   |       |  |       |   |       |
| 232    | 4000             | 1 27             | 9 520   | 2 65  | 6 710  | 2 05  |   |       |  |       |   |       |  |       |   |       |
| 243    | 4200             | 1 39             | 10 800  | 3 25  | 8 630  | 2 7   |   |       |  |       |   |       |  |       |   |       |
| 255    | 4400             | 1 53             | 11 900  | 3 90  | 10 100   | 3 4   | 7 560   | 2 75  |  |       |   |       |  |       |   |       |
| 266    | 4600             | 1 67             | 13 100  | 4 65  | 11 400   | 4 1   | 9 510   | 3 6   | 5 700  | 2 5   |   |       |  |       |   |       |
| 278    | 4800             | 1 82             | 14 100  | 5 4   | 12 600   | 4 9   | 11 000  | 4 4   | 8 630  | 3 7   |   |       |  |       |   |       |
| 290    | 5000             | 1 98             | 15 100  | 6 3   | 13 500   | 5 7   | 12 300  | 5 3   | 10 500   | 4 7   | 7 750   | 3 75  |  |       |   |       |
| 304    | 5250             | 2 18             | 16 300  | 7 7   | 15 100   | 6 9   | 13 700  | 6 4   | 12 300   | 5 9   | 10 400  | 5 2   |  |       |   |       |
| 318    | 5500             | 2 39             | 17 600  | 9     | 16 500   | 8 3   | 15 200  | 7 7   | 13 900   | 7 2   | 12 400  | 6 6   | 6 780  | 4 7   |   |       |
| 332    | 5750             | 2 61             |   |       | 17 700   | 9 8   | 16 500  | 9 1   | 15 400   | 8 6   | 14 000  | 8 0   | 10 500   | 6 4   |   |       |
| 348    | 6000             | 2 85             |   |       | 18 900   | 11 5  | 17 900  | 11 0  | 16 600   | 10 0  | 15 500  | 9 5   | 12 700   | 8 1   | 6 900   | 5 2   |
| 361    | 6250             | 3 09             |   |       |  |       | 19 200  | 12 5  | 18 100   | 12 0  | 17 000  | 11 0  | 14 500   | 9 9   | 11 100  | 8 1   |
| 376    | 6500             | 3 33             |   |       |  |       | 20 500  | 14 5  | 19 500   | 13 5  | 18 400  | 13 0  | 16 100   | 11 5  | 13 400  | 10 0  |
| 390    | 6750             | 3 60             |   |       |  |       | 21 600  | 16 5  | 20 700   | 16 0  | 19 700  | 15 0  | 17 700   | 13 5  | 15 300  | 12 0  |
| 405    | 7000             | 3 88             |   |       |  |       |   |       | 21 900   | 18 0  | 21 000  | 17 5  | 19 100   | 15 5  | 16 900  | 14 5  |
| 419    | 7250             | 4 15             |   |       |  |       |   |       | 23 100   | 20 5  | 22 200  | 19 5  | 20 500   | 18    | 18 500  | 16 5  |
| 435    | 7500             | 4 45             |   |       |  |       |   |       |  |       | 23 500  | 22 5  | 21 800   | 20    | 20 000  | 19 0  |
| 448    | 7750             | 4 75             |   |       |  |       |   |       |  |       | 24 700  | 25    | 23 100   | 23    | 21 400  | 21 5  |
| 464    | 8000             | 5 06             |   |       |  |       |   |       |  |       |   |       | 24 300   | 26    | 22 800  | 24    |
| 479    | 8250             | 5 38             |   |       |  |       |   |       |  |       |   |       | 25 600   | 29    | 24 000  | 27    |
| 491    | 8500             | 5 71             |   |       |  |       |   |       |  |       |   |       | 26 900   | 33    | 25 200  | 31    |
| 506    | 8750             | 6 05             |   |       |  |       |   |       |  |       |   |       | 28 100   | 36    | 26 600  | 34    |
| 520    | 9000             | 6 41             |   |       |  |       |   |       |  |       |   |       |  |       | 27 800  | 38    |



### Single Width

**When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances**

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M. H. P. Static Pressure $\frac{1}{8}$ " Water .072 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure $\frac{1}{4}$ " Water .145 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure $\frac{3}{8}$ " Water .217 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure $\frac{1}{2}$ " Water .289 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure $\frac{5}{8}$ " Water .361 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure $\frac{3}{4}$ " Water .434 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure $\frac{7}{8}$ " Water .506 ozs. per sq. inch |
|--------|------------------|------------------|--|--|--|--|--|--|--|
| 74     | 1400             | 0 155            | 3 880  | 0 130  |  |  |  |  |  |
| 85     | 1600             | 0 202            | 5 320  | 0 230  |  |  |  |  |  |
| 95     | 1800             | 0 256            | 6 570  | 0 345  | 3 750  | 0 23   |  |  |  |
| 106    | 2000             | 0 316            | 7 700  | 0 53   | 5 680  | 0 39   |  |  |  |
| 117    | 2200             | 0 383            | 8 800  | 0 70   | 7 140  | 0 58   | 4 520  | 0 41   |  |
| 127    | 2400             | 0 456            | 9 830  | 0 94   | 8 430  | 0 81   | 6 530  | 0 66   |  |
| 138    | 2600             | 0 531            | 10 800   | 1 20   | 9 590  | 1 1  | 8 050  | 0 92   |  |
| 149    | 2800             | 0 620            | 11 900   | 1 50   | 10 800   | 1 4  | 9 400  | 1 25   |  |
| 159    | 3000             | 0 712            | 12 900   | 1 95   | 10 700   | 1 60   | 9 350  | 1 40   |  |
| 170    | 3200             | 0 810            | 13 800   | 2 35   | 11 800   | 2 05   | 10 700   | 1 85   |  |
| 180    | 3400             | 0 914            | 14 900   | 2 90   | 13 000   | 2 55   | 12 000   | 2 80   |  |
| 191    | 3600             | 1 02             | 15 800   | 3 40   |  |  | 13 200   | 2 75   |  |
| 202    | 3800             | 1 14             | 16 000   | 4 05   |  |  | 14 300   | 3 5  |  |
| 212    | 4000             | 1 27             | 17 700   | 4 75   |  |  |  |  |  |
| 223    | 4200             | 1 39             | 18 700   | 5 5  |  |  |  |  |  |
| 233    | 4400             | 1 53             | 19 700   | 6 4  |  |  |  |  |  |
| 244    | 4600             | 1 67             | 20 700   | 7 3  |  |  |  |  |  |
| 255    | 4800             | 1 82             | 21 700   | 8 4  |  |  |  |  |  |
| 266    | 5000             | 1 98             | 22 600   | 9 5  |  |  |  |  |  |
| 191    | 3600             | 1 02             | 7 470  | 1 80   |  |  |  |  |  |
| 202    | 3800             | 1 14             | 9 580  | 2 45   |  |  |  |  |  |
| 212    | 4000             | 1 27             | 11 300   | 3 15   | 8 000  | 2 45   |  |  |  |
| 223    | 4200             | 1 39             | 12 800   | 3 85   | 10 300   | 3 25   |  |  |  |
| 233    | 4400             | 1 53             | 14 200   | 4 60   | 12 100   | 4 05   | 9 000  | 3 3  |  |
| 244    | 4600             | 1 67             | 15 500   | 5 5  | 13 600   | 4 9  | 11 300   | 4 3  |  |
| 255    | 4800             | 1 82             | 16 800   | 6 4  | 15 000   | 5 8  | 13 100   | 5 3  |  |
| 266    | 5000             | 1 98             | 18 000   | 7 5  | 16 100   | 6 8  | 14 600   | 6 3  |  |
| 278    | 5250             | 2 18             | 19 500   | 9 1  | 18 000   | 8 2  | 16 400   | 7 6  |  |
| 292    | 5500             | 2 30             | 20 900   | 10 5   | 19 600   | 9 9  | 18 200   | 9 2  |  |
| 305    | 5750             | 2 61             |  |  | 21 000   | 11 5   | 19 700   | 11 0   |  |
| 318    | 6000             | 2 85             |  |  | 22 500   | 13 5   | 21 300   | 13 0   |  |
| 332    | 6250             | 3 09             |  |  |  |  | 22 800   | 15 0   |  |
| 345    | 6500             | 3 33             |  |  |  |  | 24 200   | 17 5   |  |
| 358    | 6750             | 3 60             |  |  |  |  | 25 600   | 20   |  |
| 372    | 7000             | 3 88             |  |  |  |  |  |  |  |
| 384    | 7250             | 4 15             |  |  |  |  | 27 500   | 24 7   |  |
| 398    | 7500             | 4 45             |  |  |  |  |  |  |  |
| 410    | 7750             | 4 75             |  |  |  |  |  |  |  |
| 425    | 8000             | 5 06             |  |  |  |  |  |  |  |
| 437    | 8250             | 5 38             |  |  |  |  |  |  |  |
| 451    | 8500             | 5 71             |  |  |  |  |  |  |  |
| 464    | 8750             | 6 05             |  |  |  |  |  |  |  |
| 478    | 9000             | 6 41             |  |  |  |  |  |  |  |
| 191    | 3600             | 1 02             | 7 470  | 1 80   |  |  |  |  |  |
| 202    | 3800             | 1 14             | 9 580  | 2 45   |  |  |  |  |  |
| 212    | 4000             | 1 27             | 11 300   | 3 15   | 8 000  | 2 45   |  |  |  |
| 223    | 4200             | 1 39             | 12 800   | 3 85   | 10 300   | 3 25   |  |  |  |
| 233    | 4400             | 1 53             | 14 200   | 4 60   | 12 100   | 4 05   | 9 000  | 3 3  |  |
| 244    | 4600             | 1 67             | 15 500   | 5 5</  |  |  |  |  |  |

**Single Inlet      6' Steel Plate Fan—Design 2—Cont'd      Single Width**

### Single Width

**When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances**

[illegible]



### Single Width

**When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances**

[illegible]

**Single Inlet 6½" Steel Plate Fan—Design 2—Cont'd Single Width**  
 When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.<br>Static Pressure 3½" Water<br>2.02 ozs. per sq. inch | H. P.   | Volume C.F.M.<br>Static Pressure 4" Water<br>2.31 ozs. per sq. inch | H. P.   | Volume C.F.M.<br>Static Pressure 5" Water<br>2.89 ozs. per sq. inch | H. P.   | Volume C.F.M.<br>Static Pressure 6" Water<br>3.47 ozs. per sq. inch | H. P.   | Volume C.F.M.<br>Static Pressure 7" Water<br>4.04 ozs. per sq. inch | H. P.  | Volume C.F.M.<br>Static Pressure 8" Water<br>4.62 ozs. per sq. inch | H. P.  | Volume C.F.M.<br>Static Pressure 9" Water<br>5.2 ozs. per sq. inch | H. P.  |
|--------|------------------|------------------|--|---|---|---|---|---|---|---|---|--|---|--|--|--|
| 318    | 6500             | 3 33             | 10,600   | 9 3   |   |   |   |   |   |   |   |  |   |  |  |  |
| 330    | 6750             | 3 60             | 16,600   | 14 0  |   |   |   |   |   |   |   |  |   |  |  |  |
| 343    | 7000             | 3 88             | 19,800   | 17 5  | 13,200  | 13 0  |   |   |   |   |   |  |   |  |  |  |
| 354    | 7250             | 4 15             | 22,500   | 21  | 18,100  | 17 5  |   |   |   |   |   |  |   |  |  |  |
| 368    | 7500             | 4 45             | 24,800   | 24  | 21,400  | 21 5  |   |   |   |   |   |  |   |  |  |  |
| 379    | 7750             | 4 75             | 27,000   | 28  | 24,100  | 26  | 12,500  | 15 5  |   |   |   |  |   |  |  |  |
| 392    | 8000             | 5 06             | 29,200   | 32  | 26,400  | 29  | 18,800  | 23  |   |   |   |  |   |  |  |  |
| 403    | 8250             | 5 37             | 31,100   | 36  | 28,700  | 34  | 22,200  | 28  |   |   |   |  |   |  |  |  |
| 417    | 8500             | 5 71             | 33,200   | 40  | 30,700  | 38  | 25,100  | 32  | 13,700  | 21  |   |  |   |  |  |  |
| 428    | 8750             | 6 05             | 35,000   | 45  | 32,700  | 42  | 27,800  | 37  | 20,000  | 30  |   |  |   |  |  |  |
| 441    | 9000             | 6 41             | 36,900   | 50  | 34,700  | 47  | 30,000  | 42  | 23,700  | 36  |   |  |   |  |  |  |
| 465    | 9500             | 7 14             | 40,400   | 62  | 38,300  | 58  | 34,400  | 52  | 29,600  | 47  | 22,800  | 39   |   |  |  |  |
| 490    | 10000            | 7 91             | 43,800   | 74  | 42,000  | 70  | 38,400  | 64  | 34,200  | 60  | 29,200  | 52   | 21,300  | 42   |  |  |
| 515    | 10500            | 8 72             |  |   | 45,600  | 84  | 42,300  | 78  | 38,500  | 72  | 31,400  | 66   | 29,200  | 58   | 19,800   | 44   |
| 539    | 11000            | 9 57             |  |   | 49,200  | 100   | 45,700  | 92  | 42,500  | 86  | 38,800  | 80   | 34,600  | 74   | 29,000   | 64   |
| 563    | 11500            | 10 5             |  |   |   |   | 49,200  | 110   | 46,000  | 105   | 42,800  | 96   | 39,300  | 90   | 34,900   | 82   |
| 588    | 12000            | 11 4             |  |   |   |   | 52,700  | 130   | 49,600  | 120   | 46,700  | 110  | 43,600  | 105  | 39,700   | 100  |
| 613    | 12500            | 12 4             |  |   |   |   |   |   | 53,200  | 140   | 50,500  | 130  | 47,300  | 125  | 44,200   | 120  |
| 637    | 13000            | 13 4             |  |   |   |   |   |   | 56,600  | 160   | 54,100  | 155  | 51,300  | 145  | 48,300   | 140  |
| 662    | 13500            | 14 4             |  |   |   |   |   |   | 60,200  | 185   |   |  | 57,600  | 175  | 55,000   | 165  |
| 687    | 14000            | 15 5             |  |   |   |   |   |   |   |   | 61,200  | 200  | 58,600  | 190  | 55,900   | 180  |
|        |                  |                  |  |   |   |   |   |   |   |   |   |  |   |  |  |  |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 10" Water<br>5.78 ozs. per sq. inch                  | Static Pressure 11" Water<br>6.36 ozs. per sq. inch | Static Pressure 12" Water<br>6.93 ozs. per sq. inch                 | Static Pressure 13" Water<br>7.51 ozs. per sq. inch | Static Pressure 14" Water<br>8.09 ozs. per sq. inch                 | Static Pressure 15" Water<br>8.67 ozs. per sq. inch | Static Pressure 16" Water<br>9.25 ozs. per sq. inch                 | Static Pressure 17" Water<br>9.83 ozs. per sq. inch | Static Pressure 18" Water<br>10.41 ozs. per sq. inch                | Static Pressure 19" Water<br>11.00 ozs. per sq. inch | Static Pressure 20" Water<br>11.58 ozs. per sq. inch                | Static Pressure 21" Water<br>12.16 ozs. per sq. inch | Static Pressure 22" Water<br>12.74 ozs. per sq. inch               | Static Pressure 23" Water<br>13.32 ozs. per sq. inch |
| 539    | 11000            | 9 57             | 18,900   | 47  |   |   |   |   |   |   |   |  |   |  |  |  |
| 563    | 11500            | 10 5             | 29,100   | 72  | 18,600  | 52  |   |   |   |   |   |  |   |  |  |  |
| 588    | 12000            | 11 4             | 35,500   | 90  | 29,800  | 80  | 19,100  | 58  |   |   |   |  |   |  |  |  |
| 613    | 12500            | 12 4             | 40,100   | 110   | 36,300  | 100   | 30,700  | 90  | 20,000  | 66  |   |  |   |  |  |  |
| 637    | 13000            | 13 4             | 44,900   | 130   | 41,500  | 120   | 37,400  | 115   | 31,900  | 100   | 21,000  | 76   |   |  |  |  |
| 662    | 13500            | 14 4             | 49,100   | 150   | 46,000  | 145   | 42,500  | 135   | 38,400  | 125   | 33,100  | 115  | 24,100  | 90   |  |  |
| 687    | 14000            | 15 5             | 53,200   | 175   | 50,200  | 170   | 47,200  | 160   | 43,700  | 150   | 39,700  | 140  | 34,500  | 125  |  |  |

### Single Width

[illegible]

### Single Width

**When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances**

| R.P.M. | Tip<br>Speed<br>F.P.M. | S.N.D.<br>in<br>inches | Volume<br>C.F.M.  | H. P. | Volume<br>C.F.M.   | H. P. | Volume<br>C.F.M.   | H. P. | Volume<br>C.F.M.   | H. P. | Volume<br>C.F.M.   | H. P. | Volume<br>C.F.M.   | H. P. | Volume<br>C.F.M.  | H. P. | Volume<br>C.F.M. | H. P. |
|--------|------------------------|------------------------|---|-------|--|-------|--|-------|--|-------|--|-------|--|-------|---|-------|------------------|-------|
|        |                        |                        | Static Pressure<br>3½" Water<br>2.02 ozs. per<br>sq. inch |       | Static Pressure<br>4" Water<br>2.31 ozs. per<br>sq. inch |       | Static Pressure<br>5" Water<br>2.89 ozs. per<br>sq. inch |       | Static Pressure<br>6" Water<br>3.47 ozs. per<br>sq. inch |       | Static Pressure<br>7" Water<br>4.04 ozs. per<br>sq. inch |       | Static Pressure<br>8" Water<br>4.62 ozs. per<br>sq. inch |       | Static Pressure<br>9" Water<br>5.2 ozs. per<br>sq. inch |       |                  |       |
| 296    | 6500                   | 3 33                   | 12,400  | 11 0  |  |       |  |       |  |       |  |       |  |       |   |       |                  |       |
| 307    | 6750                   | 3 60                   | 19,200  | 16 5  |  |       |  |       |  |       |  |       |  |       |   |       |                  |       |
| 318    | 7000                   | 3 88                   | 23,000  | 20    | 15,400   | 15 0  |  |       |  |       |  |       |  |       |   |       |                  |       |
| 330    | 7250                   | 4 15                   | 26,100  | 24    | 21,000   | 20 5  |  |       |  |       |  |       |  |       |   |       |                  |       |
| 341    | 7500                   | 4 45                   | 28,800  | 28    | 24,900   | 25    |  |       |  |       |  |       |  |       |   |       |                  |       |
| 352    | 7750                   | 4 75                   | 31,300  | 32    | 28,000   | 30    | 14,600   | 18    |  |       |  |       |  |       |   |       |                  |       |
| 361    | 8000                   | 5 06                   | 33,900  | 37    | 30,700   | 31    | 21,800   | 27    |  |       |  |       |  |       |   |       |                  |       |
| 375    | 8250                   | 5 37                   | 36,100  | 41    | 33,400   | 39    | 25,800   | 32    |  |       |  |       |  |       |   |       |                  |       |
| 386    | 8500                   | 5 71                   | 38,600  | 47    | 35,700   | 44    | 29,200   | 37    | 16,000   | 24    |  |       |  |       |   |       |                  |       |
| 397    | 8750                   | 6 05                   | 40,600  | 52    | 37,900   | 49    | 32,300   | 43    | 23,200   | 34    |  |       |  |       |   |       |                  |       |
| 409    | 9000                   | 6 41                   | 42,800  | 58    | 40,200   | 54    | 34,800   | 49    | 27,600   | 42    |  |       |  |       |   |       |                  |       |
| 432    | 9500                   | 7 14                   | 46,900  | 78    | 44,400   | 68    | 40,000   | 62    | 34,500   | 54    | 26,500   | 45    |  |       |   |       |                  |       |
| 455    | 10000                  | 7 91                   | 50,900  | 86    | 48,800   | 82    | 44,500   | 74    | 39,800   | 68    | 33,900   | 60    | 24,800   | 48    |   |       |                  |       |
| 478    | 10500                  | 8 72                   |   |       | 53,000   | 98    | 49,100   | 92    | 44,800   | 84    | 40,000   | 76    | 33,900   | 68    | 23,000  | 50    |                  |       |
| 500    | 11000                  | 9 57                   |   |       | 57,200   | 115   | 53,200   | 105   | 49,400   | 100   | 45,100   | 92    | 40,200   | 86    | 33,800  | 74    |                  |       |
| 523    | 11500                  | 10 5                   |   |       |  |       | 57,200   | 125   | 53,500   | 120   | 49,700   | 110   | 45,600   | 105   | 40,500  | 94    |                  |       |
| 547    | 12000                  | 11 4                   |   |       |  |       | 61,200   | 150   | 57,000   | 140   | 54,300   | 130   | 50,700   | 125   | 46,100  | 115   |                  |       |
| 568    | 12500                  | 12 4                   |   |       |  |       |  |       | 61,800   | 160   | 58,600   | 155   | 55,000   | 145   | 51,300  | 135   |                  |       |
| 592    | 13000                  | 13 4                   |   |       |  |       |  |       | 65,800   | 185   | 62,800   | 180   | 59,600   | 170   | 56,100  | 160   |                  |       |
| 615    | 13500                  | 14 4                   |   |       |  |       |  |       | 70,000   | 220   | 67,000   | 205   | 63,800   | 195   | 60,600  | 185   |                  |       |
| 637    | 14000                  | 15 5                   |   |       |  |       |  |       |  |       | 71,100   | 235   | 68,100   | 225   | 65,000  | 210   |                  |       |

[illegible]

Single Inlet

**7½" Steel Plate Fan—Design 2**

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.                                     | H. P. | Volume C.F.M.                                     | H. P. | Volume C.F.M.                                     | H. P. | Volume C.F.M.                                     | H. P. | Volume C.F.M.                                     | H. P. | Volume C.F.M.                                     | H. P. | Volume C.F.M.                                     | H. P. |
|--------|------------------|------------------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|
|        |                  |                  | Static Pressure 1/4" Water .073 ozs. per sq. inch |       | Static Pressure 1/4" Water .145 ozs. per sq. inch |       | Static Pressure 3/8" Water .217 ozs. per sq. inch |       | Static Pressure 1/2" Water .289 ozs. per sq. inch |       | Static Pressure 5/8" Water .361 ozs. per sq. inch |       | Static Pressure 3/4" Water .434 ozs. per sq. inch |       | Static Pressure 7/8" Water .506 ozs. per sq. inch |       |
| 59     | 1400             | 0 155            | 6,060   | 0 205 |   |       |   |       |   |       |   |       |   |       |   |       |
| 68     | 1600             | 0 202            | 8,290   | 0 355 |   |       |   |       |   |       |   |       |   |       |   |       |
| 77     | 1800             | 0 256            | 10,300  | 0 54  | 5,830   | 0 355 |   |       |   |       |   |       |   |       |   |       |
| 85     | 2000             | 0 316            | 12,000  | 0 82  | 8,850   | 0 61  |   |       |   |       |   |       |   |       |   |       |
| 91     | 2200             | 0 383            | 13,700  | 1 10  | 11,100  | 0 91  | 7,060   | 0 65  |   |       |   |       |   |       |   |       |
| 102    | 2400             | 0 456            | 15,400  | 1 45  | 13,200  | 1 25  | 10,200  | 1 00  |   |       |   |       |   |       |   |       |
| 111    | 2600             | 0 531            | 16,900  | 1 90  | 15,000  | 1 70  | 12,600  | 1 45  | 9,270   | 1 15  |   |       |   |       |   |       |
| 119    | 2800             | 0 620            | 18,500  | 2 35  | 16,800  | 2 2   | 14,700  | 1 90  | 12,200  | 1 65  | 8,170   | 1 25  |   |       |   |       |
| 127    | 3000             | 0 712            | 20,100  | 3 05  |   |       | 16,700  | 2 50  | 14,600  | 2 20  | 11,800  | 1 90  | 6,550   | 1 25  |   |       |
| 136    | 3200             | 0 810            | 21,600  | 3 70  |   |       | 18,500  | 3 20  | 16,600  | 2 85  | 14,400  | 2 55  | 11,600  | 2 15  |   |       |
| 144    | 3400             | 0 914            | 23,200  | 4 55  |   |       | 20,300  | 3 95  | 18,700  | 3 60  | 16,000  | 3 25  | 14,500  | 2 90  | 11,600  | 2 50  |
| 153    | 3600             | 1 02             | 24,700  | 5 4   |   |       |   |       | 20,600  | 4 30  | 18,600  | 4 05  | 16,700  | 3 75  | 14,700  | 3 35  |
| 161    | 3800             | 1 14             | 26,300  | 6 3   |   |       |   |       | 22,400  | 5 4   | 20,800  | 5 0   | 19,000  | 4 65  | 17,300  | 4 3   |
| 170    | 4000             | 1 27             | 27,700  | 7 4   |   |       |   |       |   |       | 22,600  | 6 1   | 21,200  | 5 7   | 19,500  | 5 3   |
| 178    | 4200             | 1 39             | 29,200  | 8 6   |   |       |   |       |   |       | 21,400  | 7 3   | 23,100  | 6 9   | 21,600  | 6 4   |
| 187    | 4400             | 1 53             | 30,800  | 9 9   |   |       |   |       |   |       | 26,300  | 8 6   | 25,100  | 8 1   | 23,600  | 7 6   |
| 195    | 4600             | 1 67             | 32,300  | 11 5  |   |       |   |       |   |       |   |       | 26,800  | 9 6   | 25,600  | 9 0   |
| 204    | 4800             | 1 82             | 33,800  | 13    |   |       |   |       |   |       |   |       | 28,600  | 11    | 27,400  | 10 5  |
| 212    | 5000             | 1 98             | 35,300  | 15    |   |       |   |       |   |       |   |       |   |       | 29,300  | 12 5  |

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 ozs. per sq. inch | Static Pressure 1 1/2" Water .723 ozs. per sq. inch | Static Pressure 1 1/2" Water .87 ozs. per sq. inch | Static Pressure 1 1/2" Water 1.01 ozs. per sq. inch | Static Pressure 2" Water 1.16 ozs. per sq. inch | Static Pressure 2 1/2" Water 1.45 ozs. per sq. inch | Static Pressure 3" Water 1.73 ozs. per sq. inch |      |
|--------|------------------|------------------|---|---|--|---|---|---|---|------|
| 153    | 3600             | 1 02             | 11,700  | 2 85  |  |   |   |   |   |      |
| 161    | 3800             | 1 14             | 15,500  | 3 85  |  |   |   |   |   |      |
| 170    | 4000             | 1 27             | 17,700  | 4 9   | 12,500   | 3 8   |   |   |   |      |
| 178    | 4200             | 1 39             | 20,000  | 6 0   | 16,100   | 5 1   |   |   |   |      |
| 187    | 4400             | 1 53             | 22,200  | 7 2   | 18,800   | 6 3   |   |   |   |      |
| 195    | 4600             | 1 67             | 24,300  | 8 6   | 21,200   | 7 7   | 14,100  | 5 1   |   |      |
| 204    | 4800             | 1 82             | 26,200  | 10 0  | 23,400   | 9 1   | 17,700  | 6 7   | 10,600  | 4 6  |
| 212    | 5000             | 1 98             | 28,100  | 11 5  | 25,200   | 10 5  | 20,400  | 8 2   | 16,200  | 6 9  |
| 223    | 5250             | 2 18             | 30,400  | 14 0  | 28,200   | 13 0  | 22,800  | 9 8   | 19,500  | 8 7  |
| 233    | 5500             | 2 39             | 32,600  | 16 5  | 30,600   | 15 5  | 25,600  | 11 0  | 22,800  | 11 0 |
| 244    | 5750             | 2 61             |   |   | 32,800   | 18  | 28,400  | 14 5  | 25,800  | 13 5 |
| 255    | 6000             | 2 85             |   |   | 35,200   | 21  | 30,700  | 17 0  | 28,600  | 16 0 |
| 265    | 6250             | 3 09             |   |   |  |   | 33,300  | 20 0  | 30,900  | 18 5 |
| 276    | 6500             | 3 33             |   |   |  |   | 35,600  | 23 5  | 33,700  | 22   |
| 287    | 6750             | 3 60             |   |   |  |   | 37,900  | 27  | 36,200  | 26   |
| 297    | 7000             | 3 88             |   |   |  |   | 40,100  | 31  | 38,500  | 29   |
| 307    | 7250             | 4 15             |   |   |  |   |   |   | 40,800  | 34   |
| 318    | 7500             | 4 45             |   |   |  |   |   |   | 43,000  | 38   |
| 328    | 7750             | 4 75             |   |   |  |   |   |   | 45,000  | 42   |
| 340    | 8000             | 5 06             |   |   |  |   |   |   | 47,500  | 47   |
| 350    | 8250             | 5 38             |   |   |  |   |   |   | 49,500  | 54   |
| 361    | 8500             | 5 71             |   |   |  |   |   |   | 50,000  | 60   |
| 371    | 8750             | 6 05             |   |   |  |   |   |   | 52,100  | 66   |
| 382    | 9000             | 6 41             |   |   |  |   |   |   |   |      |

# Single Inlet 7 1/2' Steel Plate Fan—Design 2—Cont'd Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M. H. P. Static Pressure 3 1/2" Water 2.02 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 4" Water 2.31 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 5" Water 2.89 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 6" Water 3.47 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 7" Water 4.04 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 8" Water 4.62 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 9" Water 5.2 ozs. per sq. inch |
|--------|------------------|------------------|---|---|---|---|---|---|--|
| 276    | 6500             | 3 33             | 11,200 12 5   |   |   |   |   |   |  |
| 287    | 6750             | 3 60             | 22,200 19 0   |   |   |   |   |   |  |
| 297    | 7000             | 3 88             | 26,500 23 5   | 17,700 17 5   |   |   |   |   |  |
| 307    | 7250             | 4 15             | 30,100 28   | 24,200 23 5   |   |   |   |   |  |
| 318    | 7500             | 4 45             | 33,200 32   | 28,600 29   |   |   |   |   |  |
| 328    | 7750             | 4 75             | 36,000 37   | 32,200 34   | 16,800 21   |   |   |   |  |
| 340    | 8000             | 5 06             | 39,000 42   | 35,400 39   | 25,100 30   |   |   |   |  |
| 350    | 8250             | 5 37             | 41,600 48   | 38,400 45   | 29,700 37   |   |   |   |  |
| 361    | 8500             | 5 71             | 44,400 54   | 41,100 50   | 33,600 43   | 18,400 28   |   |   |  |
| 371    | 8750             | 6 05             | 46,700 60   | 43,700 56   | 37,200 50   | 26,800 40   |   |   |  |
| 382    | 9000             | 6 41             | 49,300 66   | 46,300 61   | 40,100 55   | 31,800 48   |   |   |  |
| 403    | 9500             | 7 14             | 54,000 82   | 51,200 78   | 46,000 70   | 39,600 62   | 30,500 52   |   |  |
| 425    | 10000            | 7 91             | 58,600 100  | 56,200 94   | 51,200 86   | 45,800 78   | 39,100 70   | 28,600 56   |  |
| 447    | 10500            | 8 72             |   | 61,000 115  | 56,500 105  | 51,600 96   | 46,000 88   | 39,100 78   | 26,500 58  |
| 468    | 11000            | 9 57             |   | 65,700 135  | 61,200 125  | 56,800 115  | 51,800 105  | 46,300 98   | 38,800 86  |
| 488    | 11500            | 10 5             |   |   | 65,800 145  | 61,500 140  | 57,200 125  | 52,500 120  | 46,600 110   |
| 510    | 12000            | 11 4             |   |   | 70,500 170  | 66,400 160  | 62,500 150  | 58,300 140  | 53,100 135   |
| 531    | 12500            | 12 4             |   |   |   | 71,100 185  | 67,500 175  | 63,300 165  | 59,000 160   |
| 552    | 13000            | 13 4             |   |   |   | 75,800 215  | 72,300 205  | 68,600 195  | 64,600 185   |
| 574    | 13500            | 14 4             |   |   |   | 80,600 250  | 77,000 235  | 73,500 220  | 69,800 210   |
| 595    | 14000            | 15 5             |   |   |   |   | 81,800 270  | 78,300 255  | 74,800 245   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 10" Water 5.78 ozs. per sq. inch                        | Static Pressure 11" Water 6.36 ozs. per sq. inch                    | Static Pressure 12" Water 6.93 ozs. per sq. inch                    | Static Pressure 13" Water 7.51 ozs. per sq. inch                    | Static Pressure 14" Water 8.08 ozs. per sq. inch                    | Static Pressure 15" Water 8.66 ozs. per sq. inch                    | Static Pressure 16" Water 9.24 ozs. per sq. inch                   |
| 468    | 11000            | 9 57             | 25,300 62   |   |   |   |   |   |  |
| 488    | 11500            | 10 5             | 39,300 96   | 24,800 68   |   |   |   |   |  |
| 510    | 12000            | 11 4             | 47,500 120  | 39,800 110  | 25,600 78   |   |   |   |  |
| 531    | 12500            | 12 4             | 51,000 145  | 48,500 135  | 41,100 120  | 26,700 88   |   |   |  |
| 552    | 13000            | 13 4             | 60,000 175  | 55,500 165  | 50,000 150  | 42,700 135  | 29,000 100  |   |  |
| 574    | 13500            | 14 4             | 65,700 205  | 61,500 195  | 57,000 180  | 51,400 170  | 44,300 150  | 32,200 120  |  |
| 595    | 14000            | 15 5             | 71,100 235  | 67,100 225  | 63,100 215  | 58,500 200  | 53,100 185  | 46,100 170  |  |

Single Inlet

## 8' Steel Plate Fan—Design 2

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.                                     | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                      | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                     | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. |
|--------|------------------|------------------|---|-------|---|-------|--|-------|---|-------|---|-------|---|-------|---|-------|
|        |                  |                  | Static Pressure 1/4" Water .072 oza. per sq. inch |       | Static Pressure 1/4" Water .145 oza. per sq. inch   |       | Static Pressure 3/8" Water .217 oza. per sq. inch  |       | Static Pressure 1/2" Water .289 oza. per sq. inch   |       | Static Pressure 5/8" Water .361 oza. per sq. inch |       | Static Pressure 3/4" Water .434 oza. per sq. inch   |       | Static Pressure 7/8" Water .506 oza. per sq. inch   |       |
| 56     | 1100             | 0 155            | 6 920   | 0 235 |   |       |  |       |   |       |   |       |   |       |   |       |
| 64     | 1600             | 0 202            | 9 480   | 0 405 |   |       |  |       |   |       |   |       |   |       |   |       |
| 72     | 1800             | 0 256            | 11 700  | 0 61  | 6 660   | 0 405 |  |       |   |       |   |       |   |       |   |       |
| 79     | 2000             | 0 316            | 13 700  | 0 94  | 10 100  | 0 70  |  |       |   |       |   |       |   |       |   |       |
| 87     | 2200             | 0 383            | 15 600  | 1 25  | 12 700  | 1 05  | 8 050  | 0 74  |   |       |   |       |   |       |   |       |
| 96     | 2400             | 0 456            | 17 500  | 1 65  | 15 000  | 1 45  | 11 600   | 1 15  |   |       |   |       |   |       |   |       |
| 103    | 2600             | 0 534            | 19 200  | 2 15  | 17 100  | 1 9   | 14 300   | 1 65  | 10 600  | 1 30  |   |       |   |       |   |       |
| 111    | 2800             | 0 620            | 21 100  | 2 7   | 19 200  | 2 5   | 16 700   | 2 2   | 13 800  | 1 90  | 9 330   | 1 40  |   |       |   |       |
| 119    | 3000             | 0 712            | 23 000  | 3 5   |   |       | 19 000   | 2 85  | 16 600  | 2 50  | 13 500  | 2 15  | 7 460   | 1 40  |   |       |
| 127    | 3200             | 0 810            | 24 600  | 4 2   |   |       | 21 000   | 3 6   | 19 000  | 3 25  | 16 400  | 2 9   | 13 200  | 2 45  |   |       |
| 135    | 3400             | 0 914            | 26 500  | 5 2   |   |       | 23 200   | 4 5   | 21 300  | 4 1   | 18 900  | 3 7   | 16 500  | 3 35  | 13 200  | 2 80  |
| 143    | 3600             | 1 02             | 28 200  | 6 1   |   |       |  |       | 23 400  | 4 9   | 21 200  | 4 6   | 19 100  | 4 25  | 16 800  | 3 85  |
| 151    | 3800             | 1 14             | 30 000  | 7 2   |   |       |  |       | 25 500  | 6 2   | 23 700  | 5 7   | 21 600  | 5 3   | 19 700  | 4 9   |
| 159    | 4000             | 1 27             | 31 600  | 8 5   |   |       |  |       |   |       | 25 800  | 7 0   | 24 200  | 6 5   | 22 200  | 6 1   |
| 167    | 4200             | 1 39             | 33 100  | 9 8   |   |       |  |       |   |       | 27 900  | 8 3   | 26 400  | 7 9   | 24 600  | 7 2   |
| 175    | 4400             | 1 53             | 35 200  | 11 5  |   |       |  |       |   |       | 30 000  | 9 8   | 28 500  | 9 2   | 27 000  | 8 7   |
| 183    | 4600             | 1 67             | 36 900  | 13    |   |       |  |       |   |       |   |       | 30 500  | 11 0  | 29 200  | 10 5  |
| 191    | 4800             | 1 82             | 38 600  | 15    |   |       |  |       |   |       |   |       | 32 500  | 12 5  | 31 300  | 12    |
| 199    | 5000             | 1 98             | 40 300  | 17    |   |       |  |       |   |       |   |       |   |       | 33 400  | 14    |
|        |                  |                  |   |       |   |       |  |       |   |       |   |       |   |       |   |       |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 oza. per sq. inch   |       | Static Pressure 1 1/4" Water .723 oza. per sq. inch |       | Static Pressure 1 1/2" Water .87 oza. per sq. inch |       | Static Pressure 1 3/4" Water 1.01 oza. per sq. inch |       | Static Pressure 2" Water 1.16 oza. per sq. inch   |       | Static Pressure 2 1/4" Water 1.45 oza. per sq. inch |       | Static Pressure 2 1/2" Water 1.73 oza. per sq. inch |       |
| 143    | 3600             | 1 02             | 13 300  | 3 25  |   |       |  |       |   |       |   |       |   |       |   |       |
| 151    | 3800             | 1 14             | 17 100  | 4 4   |   |       |  |       |   |       |   |       |   |       |   |       |
| 159    | 4000             | 1 27             | 20 200  | 5 6   | 14 200  | 4 35  |  |       |   |       |   |       |   |       |   |       |
| 167    | 4200             | 1 39             | 22 800  | 6 9   | 18 300  | 5 8   |  |       |   |       |   |       |   |       |   |       |
| 175    | 4400             | 1 53             | 25 300  | 8 2   | 21 500  | 7 2   | 16 000   | 5 8   |   |       |   |       |   |       |   |       |
| 183    | 4600             | 1 67             | 27 700  | 9 8   | 24 200  | 8 8   | 20 200   | 7 7   | 12 100  | 5 3   |   |       |   |       |   |       |
| 191    | 4800             | 1 82             | 29 800  | 11 5  | 26 700  | 10 5  | 23 200   | 9 4   | 18 400  | 7 9   |   |       |   |       |   |       |
| 199    | 5000             | 1 98             | 32 000  | 13 5  | 28 700  | 12 0  | 26 000   | 11 0  | 22 300  | 9 9   | 16 500  | 8     |   |       |   |       |
| 209    | 5250             | 2 18             | 34 600  | 16    | 32 100  | 14 5  | 29 200   | 13 5  | 26 000  | 12 5  | 22 100  | 11    |   |       |   |       |
| 219    | 5500             | 2 39             | 37 200  | 19    | 34 900  | 17 5  | 32 300   | 16 5  | 29 500  | 15 0  | 26 300  | 14    | 14 400  | 10 0  |   |       |
| 229    | 5750             | 2 61             |   |       | 37 400  | 21    | 35 000   | 19    | 32 600  | 18    | 29 800  | 17    | 22 200  | 13 5  |   |       |
| 239    | 6000             | 2 85             |   |       | 40 100  | 24    | 38 000   | 23    | 35 300  | 21    | 33 000  | 20    | 26 900  | 17 5  | 14 600  | 11 0  |
| 249    | 6250             | 3 09             |   |       |   |       | 40 700   | 27    | 38 400  | 25    | 36 100  | 24    | 30 900  | 21 0  | 23 400  | 17 0  |
| 258    | 6500             | 3 33             |   |       |   |       | 43 200   | 31    | 41 200  | 29    | 38 900  | 27    | 34 000  | 24 5  | 28 300  | 21 5  |
| 268    | 6750             | 3 60             |   |       |   |       | 45 800   | 35    | 44 000  | 33    | 41 800  | 32    | 37 400  | 29    | 32 300  | 26    |
| 278    | 7000             | 3 88             |   |       |   |       |  |       | 46 500  | 38    | 44 600  | 37    | 40 500  | 33    | 35 900  | 30    |
| 288    | 7250             | 4 15             |   |       |   |       |  |       | 49 000  | 44    | 47 100  | 41    | 43 400  | 38    | 39 200  | 35    |
| 298    | 7500             | 4 45             |   |       |   |       |  |       |   |       | 49 800  | 48    | 46 200  | 43    | 42 300  | 40    |
| 308    | 7750             | 4 75             |   |       |   |       |  |       |   |       | 52 500  | 54    | 49 000  | 49    | 45 300  | 45    |
| 318    | 8000             | 5 06             |   |       |   |       |  |       |   |       |   |       | 51 600  | 56    | 48 300  | 52    |
| 328    | 8250             | 5 38             |   |       |   |       |  |       |   |       |   |       | 54 300  | 62    | 51 000  | 58    |
| 338    | 8500             | 5 71             |   |       |   |       |  |       |   |       |   |       | 57 000  | 70    | 53 500  | 66    |
| 348    | 8750             | 6 05             |   |       |   |       |  |       |   |       |   |       | 59 500  | 76    | 56 500  | 72    |
| 358    | 9000             | 6 41             |   |       |   |       |  |       |   |       |   |       |   |       | 59 000  | 80    |

Single Inlet

**8' Steel Plate Fan—Design 2—Cont'd**

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances.

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M. H. P.                                 | Volume C.F.M. H. P.                             | Volume C.F.M. H. P.                             | Volume C.F.M. H. P.                             | Volume C.F.M. H. P.                             | Volume C.F.M. H. P.                             | Volume C.F.M. H. P.                            | Volume C.F.M. H. P. | Volume C.F.M. H. P. | Volume C.F.M. H. P. | Volume C.F.M. H. P. | Volume C.F.M. H. P. | Volume C.F.M. H. P. |
|--------|------------------|------------------|---|---|---|---|---|---|--|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
|        |                  |                  | Static Pressure 3 1/2" Water 2.02 ozs. per sq. inch | Static Pressure 4" Water 2.31 ozs. per sq. inch | Static Pressure 5" Water 2.89 ozs. per sq. inch | Static Pressure 6" Water 3.47 ozs. per sq. inch | Static Pressure 7" Water 4.04 ozs. per sq. inch | Static Pressure 8" Water 4.62 ozs. per sq. inch | Static Pressure 9" Water 5.2 ozs. per sq. inch |                     |                     |                     |                     |                     |                     |
| 258    | 6500             | 3 33             | 16,200  | 14 0  |   |   |   |   |  |                     |                     |                     |                     |                     |                     |
| 268    | 6750             | 3 60             | 25,200  | 21 5  |   |   |   |   |  |                     |                     |                     |                     |                     |                     |
| 278    | 7000             | 3 88             | 30,200  | 27  | 20,200  | 20  |   |   |  |                     |                     |                     |                     |                     |                     |
| 288    | 7250             | 4 15             | 34,300  | 32  | 27,600  | 27  |   |   |  |                     |                     |                     |                     |                     |                     |
| 298    | 7500             | 4 45             | 37,800  | 37  | 32,600  | 33  |   |   |  |                     |                     |                     |                     |                     |                     |
| 308    | 7750             | 4 75             | 41,200  | 43  | 36,800  | 39  | 19,100  | 21  |  |                     |                     |                     |                     |                     |                     |
| 318    | 8000             | 5 06             | 44,500  | 48  | 40,300  | 45  | 28,600  | 35  |  |                     |                     |                     |                     |                     |                     |
| 328    | 8250             | 5 37             | 47,500  | 54  | 43,800  | 52  | 33,900  | 42  |  |                     |                     |                     |                     |                     |                     |
| 338    | 8500             | 5 71             | 50,600  | 62  | 46,800  | 58  | 38,400  | 49  | 21,000   | 32                  |                     |                     |                     |                     |                     |
| 348    | 8750             | 6 05             | 53,300  | 68  | 49,800  | 64  | 42,400  | 56  | 30,500   | 45                  |                     |                     |                     |                     |                     |
| 358    | 9000             | 6 41             | 56,200  | 76  | 52,800  | 72  | 45,800  | 64  | 36,200   | 54                  |                     |                     |                     |                     |                     |
| 378    | 9500             | 7 14             | 61,600  | 94  | 58,400  | 88  | 52,500  | 80  | 45,200   | 72                  | 34,800              | 60                  |                     |                     |                     |
| 398    | 10000            | 7 91             | 67,000  | 115   | 64,000  | 110   | 58,500  | 98  | 52,200   | 90                  | 44,500              | 80                  | 32,600              | 64                  |                     |
| 418    | 10500            | 8 72             |   |   | 69,500  | 130   | 64,500  | 120   | 58,800   | 110                 | 52,500              | 100                 | 44,500              | 90                  | 30,300 66           |
| 438    | 11000            | 9 57             |   |   | 75,000  | 150   | 69,800  | 140   | 64,700   | 130                 | 59,200              | 120                 | 52,700              | 110                 | 44,300 98           |
| 458    | 11500            | 10 5             |   |   |   |   | 75,100  | 165   | 70,100   | 155                 | 65,300              | 145                 | 59,800              | 135                 | 53,200 125          |
| 478    | 12000            | 11 4             |   |   |   |   | 80,300  | 195   |  |                     |                     |                     |                     |                     |                     |
| 498    | 12500            | 12 4             |   |   |   |   |   |   | 75,600   | 185                 | 71,300              | 170                 | 66,500              | 160                 | 60,500 150          |
| 518    | 13000            | 13 4             |   |   |   |   |   |   | 81,100   | 210                 | 77,000              | 200                 | 72,200              | 190                 | 67,300 180          |
| 538    | 13500            | 14 4             |   |   |   |   |   |   | 86,400   | 245                 | 82,500              | 235                 | 78,300              | 220                 | 73,600 210          |
| 558    | 14000            | 15 5             |   |   |   |   |   |   | 92,000   | 285                 | 87,800              | 270                 | 83,800              | 255                 | 79,500 240          |
|        |                  |                  |   |   |   |   |   |   |  |                     | 93,300              | 310                 | 89,300              | 290                 | 85,300 280          |

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 10" Water 5.78 ozs. per sq. inch | Static Pressure 11" Water 6.36 ozs. per sq. inch | Static Pressure 12" Water 6.93 ozs. per sq. inch | Static Pressure 13" Water 7.51 ozs. per sq. inch | Static Pressure 14" Water 8.09 ozs. per sq. inch | Static Pressure 15" Water 8.67 ozs. per sq. inch | Static Pressure 00" Water 00.0 ozs. per sq. inch |
|--------|------------------|------------------|--|--|--|--|--|--|--|
| 438    | 11000            | 9 57             | 28,900   | 72   |  |  |  |  |  |
| 458    | 11500            | 10 5             | 41,800   | 110  | 28,300   | 78   |  |  |  |
| 478    | 12000            | 11 4             | 54,200   | 140  | 45,400   | 125  | 29,200   | 88   |  |
| 498    | 12500            | 12 4             | 61,500   | 170  | 55,400   | 155  | 46,900   | 135  | 30,500 100                                       |
| 518    | 13000            | 13 4             | 68,500   | 200  | 63,200   | 185  | 57,000   | 175  | 48,700 155                                       |
| 538    | 13500            | 14 4             | 74,900   | 230  | 70,100   | 220  | 64,800   | 210  | 58,600 190                                       |
| 558    | 14000            | 15 5             | 81,100   | 265  | 76,500   | 255  | 72,000   | 245  | 66,600 230                                       |
|        |                  |                  |  |  |  |  |  |  | 60,500 215                                       |
|        |                  |                  |  |  |  |  |  |  | 52,600 195                                       |



Single Inlet

**8 $\frac{1}{2}$ " Steel Plate Fan—Design 2**

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.  | H. P. | Volume C.F.M.  | H. P. | Volume C.F.M.  | H. P. | Volume C.F.M.  | H. P. | Volume C.F.M.  | H. P. | Volume C.F.M.  | H. P. | Volume C.F.M.  | H. P. |
|--------|------------------|------------------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|
|        |                  |                  | Static Pressure $\frac{1}{2}$ " Water .072 ozs. per sq. inch |       | Static Pressure $\frac{1}{4}$ " Water .145 ozs. per sq. inch |       | Static Pressure $\frac{3}{8}$ " Water .217 ozs. per sq. inch |       | Static Pressure $\frac{1}{2}$ " Water .289 ozs. per sq. inch |       | Static Pressure $\frac{5}{8}$ " Water .361 ozs. per sq. inch |       | Static Pressure $\frac{3}{4}$ " Water .434 ozs. per sq. inch |       | Static Pressure $\frac{7}{8}$ " Water .506 ozs. per sq. inch |       |
| 52     | 1400             | 0 155            | 7 760  | 0 265 |  |       |  |       |  |       |  |       |  |       |  |       |
| 60     | 1600             | 0 202            | 10 700   | 0 455 |  |       |  |       |  |       |  |       |  |       |  |       |
| 68     | 1800             | 0 256            | 13 200   | 0 69  | 7 490  | 0 455 |  |       |  |       |  |       |  |       |  |       |
| 75     | 2000             | 0 316            | 15 400   | 1 05  | 11 300   | 0 79  |  |       |  |       |  |       |  |       |  |       |
| 82     | 2200             | 0 383            | 17 600   | 1 40  | 14 300   | 1 15  | 9 050  | 0 83  |  |       |  |       |  |       |  |       |
| 90     | 2400             | 0 456            | 19 600   | 1 85  | 16 900   | 1 60  | 13 100   | 1 30  |  |       |  |       |  |       |  |       |
| 97     | 2600             | 0 534            | 21 600   | 2 40  | 19 200   | 2 15  | 16 100   | 1 85  | 11 900   | 1 15  |  |       |  |       |  |       |
| 105    | 2800             | 0 620            | 23 700   | 3 00  | 21 500   | 2 8   | 18 800   | 2 45  | 15 500   | 2 10  | 10 500   | 1 60  |  |       |  |       |
| 112    | 3000             | 0 712            | 25 800   | 3 90  |  |       | 21 300   | 3 20  | 18 700   | 2 80  | 15 100   | 2 40  | 8 390  | 1 60  |  |       |
| 120    | 3200             | 0 810            | 27 700   | 4 75  |  |       | 23 600   | 4 05  | 21 300   | 3 65  | 18 500   | 3 25  | 11 800   | 2 75  |  |       |
| 127    | 3400             | 0 914            | 29 700   | 5 9   |  |       | 26 100   | 5 1   | 23 900   | 4 6   | 21 200   | 4 15  | 18 500   | 3 75  | 14 800   | 3     |
| 135    | 3600             | 1 02             | 31 700   | 6 9   |  |       |  |       | 26 300   | 5 5   | 23 800   | 5 2   | 21 400   | 4 8   | 18 900   | 4     |
| 142    | 3800             | 1 14             | 33 700   | 8 1   |  |       |  |       | 28 600   | 7     | 26 700   | 6 4   | 24 300   | 6 0   | 22 100   | 5     |
| 150    | 4000             | 1 27             | 35 500   | 9 5   |  |       |  |       |  |       | 29 000   | 7 8   | 27 100   | 7 3   | 24 900   | 6     |
| 157    | 4200             | 1 39             | 37 500   | 11 0  |  |       |  |       |  |       | 31 400   | 9 4   | 29 600   | 8 9   | 27 700   | 8     |
| 165    | 4400             | 1 53             | 39 500   | 13 0  |  |       |  |       |  |       | 33 700   | 11    | 32 000   | 10 5  | 30 300   | 9     |
| 172    | 4600             | 1 67             | 41 300   | 14 5  |  |       |  |       |  |       |  |       | 34 400   | 12 5  | 32 800   | 11    |
| 180    | 4800             | 1 82             | 43 800   | 16 5  |  |       |  |       |  |       |  |       | 36 600   | 14    | 35 200   | 13    |
| 187    | 5000             | 1 98             | 45 200   | 19    |  |       |  |       |  |       |  |       |  |       | 37 500   | 16    |
|        |                  |                  |  |       |  |       |  |       |  |       |  |       |  |       |  |       |
|        |                  |                  |  |       |  |       |  |       |  |       |  |       |  |       |  |       |
|        |                  |                  |  |       |  |       |  |       |  |       |  |       |  |       |  |       |
|        |                  |                  |  |       |  |       |  |       |  |       |  |       |  |       |  |       |
|        |                  |                  |  |       |  |       |  |       |  |       |  |       |  |       |  |       |
|        |                  |                  |  |       |  |       |  |       |  |       |  |       |  |       |  |       |
|        |                  |                  |  |       |  |       |  |       |  |       |  |       |  |       |  |       |
|        |                  |                  |  |       |  |       |  |       |  |       |  |       |  |       |  |       |
|        |                  |                  |  |       |  |       |  |       |  |       |  |       |  |       |  |       |
|        |                  |                  |  |       |  |       |  |       |  |       |  |       |  |       |  |       |
|        |                  |                  |  |       |  |       |  |       |  |       |  |       |  |       |  |       |
|        |                  |                  |  |       |  |       |  |       |  |       |  |       |  |       |  |       |
|        |                  |                  |  |       |  |       |  |       |  |       |  |       |  |       |  |       |
|        |                  |                  |  |       |  |       |  |       |  |       |  |       |  |       |  |       |
|        |                  |                  |  |       |  |       |  |       |  |       |  |       |  |       |  |       |
|        |                  |                  |  |       |  |       |  |       |  |       |  |       |  |       |  |       |
|        |                  |                  |  |       |  |       |  |       |  |       |  |       |  |       |  |       |
|        |                  |                  |  |       |  |       |  |       |  |       |  |       |  |       |  |       |
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|        |                  |                  |  |       |  |       |  |       |  |       |  |       |  |       |  |       |
|        |                  |                  |  |       |  |       |  |       |  |       |  |       |  |       |  |       |
|        |                  |                  |  |       |  |       |  |       |  |       |  |       |  |       |  |       |
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Single Inlet **8½' Steel Plate Fan—Design 2—Cont'd** Single Width

**When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances**

[illegible]

### Single Width

**When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances**

[illegible]

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

[illegible]





Single Inlet

**10' Steel Plate Fan—Design 2**

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M. H. P. Static Pressure 1/4" Water .072 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1/4" Water .145 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 3/8" Water .217 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1/2" Water .289 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 5/8" Water .361 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 3/4" Water 4.34 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 7/8" Water .506 ozs. per sq. inch |
|--------|------------------|------------------|---|---|---|---|---|---|---|
| 45     | 1100             | 0 155            | 10,800 0 365  |   |   |   |   |   |   |
| 51     | 1600             | 0 202            | 14,800 0 64   |   |   |   |   |   |   |
| 57     | 1800             | 0 256            | 18,300 0 96   | 10,400 0 64   |   |   |   |   |   |
| 64     | 2000             | 0 316            | 21,300 1 45   | 15,700 1 10   |   |   |   |   |   |
| 70     | 2200             | 0 383            | 24,400 1 95   | 19,800 1 60   | 12,500 1 15   |   |   |   |   |
| 76     | 2400             | 0 456            | 27,200 2 60   | 23,400 2 25   | 18,100 1 80   |   |   |   |   |
| 83     | 2600             | 0 534            | 29,900 3 35   | 26,600 3 0  | 22,300 2 55   | 16,500 2 05   |   |   |   |
| 89     | 2800             | 0 620            | 32,900 4 20   | 29,800 3 9  | 26,000 3 40   | 21,600 2 9  | 14,500 2 20   |   |   |
| 95     | 3000             | 0 712            | 35,700 5 4  |   | 29,600 4 15   | 25,900 3 9  | 21,000 3 35   | 11,600 2 2  |   |
| 102    | 3200             | 0 810            | 38,400 6 6  |   | 32,800 5 6  | 29,500 5 1  | 25,600 4 5  | 20,500 3 8  |   |
| 108    | 3400             | 0 914            | 41,300 8 1  |   | 36,100 7  | 33,200 6 4  | 29,500 5 7  | 25,700 5 2  | 20,500 4 4  |
| 115    | 3600             | 1 02             | 43,900 9 5  |   |   | 36,500 7 6  | 33,100 7 2  | 29,700 6 6  | 26,200 6 0  |
| 121    | 3800             | 1 14             | 46,800 11 0   |   |   | 39,700 9 7  | 37,000 8 9  | 33,700 8 3  | 30,700 7 6  |
| 127    | 4000             | 1 27             | 49,200 13 0   |   |   |   | 40,200 11 0   | 37,600 10 0   | 34,000 9 4  |
| 134    | 4200             | 1 39             | 52,000 15 0   |   |   |   | 43,500 13 0   | 41,000 12 5   | 38,400 11 5   |
| 140    | 4400             | 1 53             | 54,700 17 5   |   |   |   | 46,800 15 5   | 44,400 14 5   | 42,000 13 5   |
| 146    | 4600             | 1 67             | 57,400 20   |   |   |   |   | 47,600 17 0   | 45,500 16   |
| 153    | 4800             | 1 82             | 60,000 23   |   |   |   |   | 50,800 19 5   | 48,700 19   |
| 159    | 5000             | 1 98             | 62,700 26   |   |   |   |   |   | 52,000 22   |
|        |                  |                  |   |   |   |   |   |   |   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 ozs. per sq. inch                       | Static Pressure 1 1/4" Water .723 ozs. per sq. inch                   | Static Pressure 1 1/2" Water .886 ozs. per sq. inch                   | Static Pressure 1 3/4" Water 1.01 ozs. per sq. inch                   | Static Pressure 2" Water 1.16 ozs. per sq. inch                       | Static Pressure 2 1/2" Water 1.45 ozs. per sq. inch                   | Static Pressure 3" Water 1.73 ozs. per sq. inch                       |
| 115    | 3600             | 1 02             | 20,700 5 1  |   |   |   |   |   |   |
| 121    | 3800             | 1 14             | 26,000 6 8  |   |   |   |   |   |   |
| 127    | 4000             | 1 27             | 31,500 8 7  | 22,200 6 8  |   |   |   |   |   |
| 134    | 4200             | 1 39             | 35,600 10 5   | 28,500 9 0  |   |   |   |   |   |
| 140    | 4400             | 1 53             | 39,300 13 0   | 33,400 11 5   | 25,000 9 1  |   |   |   |   |
| 146    | 4600             | 1 67             | 43,100 15 5   | 37,700 13 5   | 31,400 12 0   | 18,800 8 2  |   |   |   |
| 153    | 4800             | 1 82             | 46,500 18   | 41,600 16 0   | 36,200 14 5   | 28,700 12 5   |   |   |   |
| 159    | 5000             | 1 98             | 49,900 21   | 44,600 19   | 40,500 17 5   | 34,700 15 5   | 25,600 12 5   |   |   |
| 167    | 5250             | 2 18             | 51,000 25   | 50,000 23   | 45,500 21   | 40,500 19 5   | 34,400 17 0   |   |   |
| 175    | 5500             | 2 39             | 58,000 30   | 54,400 27   | 50,300 25   | 45,900 23 5   | 40,900 21 5   | 22,400 15 5   |   |
| 183    | 5750             | 2 61             |   | 58,300 32   | 54,500 30   | 50,700 28   | 46,400 26   | 31,600 21   |   |
| 191    | 6000             | 2 85             |   | 62,500 38   | 59,200 36   | 54,900 33   | 51,300 31   | 41,900 27   | 22,800 17 5   |
| 199    | 6250             | 3 09             |   |   | 63,300 42   | 59,900 39   | 56,300 37   | 47,900 32   | 36,300 27   |
| 207    | 6500             | 3 33             |   |   | 67,200 48   | 64,200 45   | 60,500 43   | 53,000 38   | 44,100 33   |
| 215    | 6750             | 3 60             |   |   | 71,200 56   | 68,400 52   | 65,000 49   | 58,300 45   | 50,300 40   |
| 223    | 7000             | 3 88             |   |   |   | 72,500 60   | 69,500 56   | 63,000 52   | 55,900 47   |
| 230    | 7250             | 4 15             |   |   |   | 76,400 68   | 73,300 64   | 67,600 60   | 61,000 54   |
| 239    | 7500             | 4 45             |   |   |   |   | 77,500 74   | 72,000 66   | 66,000 62   |
| 246    | 7750             | 4 75             |   |   |   |   | 76,400 76   | 76,400 76   | 70,500 70   |
| 255    | 8000             | 5 06             |   |   |   |   | 81,600 84   | 80,400 88   | 75,200 80   |
| 262    | 8250             | 5 38             |   |   |   |   |   | 84,500 96   | 79,400 90   |
| 271    | 8500             | 5 71             |   |   |   |   |   | 88,800 110  | 83,300 100  |
| 278    | 8750             | 6 05             |   |   |   |   |   | 92,600 120  | 88,000 115  |
| 286    | 9000             | 6 41             |   |   |   |   |   |   | 92,000 125  |

**Single Inlet 10' Steel Plate Fan—Design 2—Cont'd Single Width**  
 When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.<br>Static Pressure 3 1/2" Water<br>2.02 oza. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure 4" Water<br>2.31 oza. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure 5" Water<br>2.89 oza. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure 6" Water<br>3.47 oza. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure 7" Water<br>4.04 oza. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure 8" Water<br>4.62 oza. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure 9" Water<br>5.2 oza. per sq. inch | H. P. |
|--------|------------------|------------------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|--|-------|
| 207    | 6500             | 3 33             | 25,300  | 22    |   |       |   |       |   |       |   |       |   |       |  |       |
| 215    | 6750             | 3 60             | 39,300  | 34    |   |       |   |       |   |       |   |       |   |       |  |       |
| 223    | 7000             | 3 88             | 47,000  | 41    | 31,100  | 31    |   |       |   |       |   |       |   |       |  |       |
| 230    | 7250             | 4 15             | 53,400  | 49    | 43,000  | 42    |   |       |   |       |   |       |   |       |  |       |
| 239    | 7500             | 4 45             | 58,800  | 58    | 50,800  | 52    |   |       |   |       |   |       |   |       |  |       |
| 246    | 7750             | 4 75             | 64,000  | 66    | 57,300  | 60    | 29,800  | 37    |   |       |   |       |   |       |  |       |
| 255    | 8000             | 5 06             | 69,300  | 76    | 62,800  | 70    | 44,600  | 54    |   |       |   |       |   |       |  |       |
| 262    | 8250             | 5 37             | 74,000  | 84    | 68,200  | 80    | 52,800  | 66    |   |       |   |       |   |       |  |       |
| 271    | 8500             | 5 71             | 78,800  | 96    | 73,000  | 90    | 59,700  | 76    | 32,700  | 19    |   |       |   |       |  |       |
| 278    | 8750             | 6 05             | 83,000  | 105   | 77,600  | 100   | 66,000  | 88    | 47,500  | 70    |   |       |   |       |  |       |
| 286    | 9000             | 6 41             | 87,500  | 120   | 82,300  | 110   | 71,300  | 100   | 56,400  | 81    |   |       |   |       |  |       |
| 302    | 9500             | 7 14             | 96,000  | 145   | 91,000  | 135   | 81,700  | 125   | 70,400  | 110   | 54,200  | 92    |   |       |  |       |
| 318    | 10000            | 7 91             | 104,000   | 175   | 99,700  | 170   | 91,100  | 150   | 81,300  | 110   | 69,300  | 125   | 50,700  | 98    |  |       |
| 334    | 10500            | 8 72             |   |       | 108,000   | 200   | 100,000   | 185   | 91,600  | 170   | 81,700  | 155   | 69,300  | 140   | 47,100   | 105   |
| 350    | 11000            | 9 57             |   |       | 117,000   | 210   | 108,000   | 220   | 101,000   | 205   | 92,200  | 190   | 82,200  | 175   | 69,000   | 155   |
| 366    | 11500            | 10 5             |   |       |   |       | 117,000   | 260   | 109,000   | 245   | 102,000   | 225   | 93,300  | 210   | 82,700   | 195   |
| 382    | 12000            | 11 4             |   |       |   |       | 125,000   | 305   | 118,000   | 285   | 111,000   | 265   | 103,000   | 250   | 94,200   | 235   |
| 398    | 12500            | 12 4             |   |       |   |       |   |       | 126,000   | 330   | 120,000   | 310   | 112,000   | 295   | 105,000  | 280   |
| 414    | 13000            | 13 4             |   |       |   |       |   |       | 135,000   | 380   | 128,000   | 365   | 122,000   | 345   | 115,000  | 330   |
| 430    | 13500            | 14 4             |   |       |   |       |   |       | 143,000   | 445   | 137,000   | 420   | 130,000   | 395   | 124,000  | 380   |
| 446    | 14000            | 15 5             |   |       |   |       |   |       |   |       | 145,000   | 480   | 139,000   | 455   | 133,000  | 435   |

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 10" Water<br>5.78 oza. per sq. inch | Static Pressure 11" Water<br>6.36 oza. per sq. inch | Static Pressure 12" Water<br>6.93 oza. per sq. inch | Static Pressure 13" Water<br>7.51 oza. per sq. inch | Static Pressure 14" Water<br>8.09 oza. per sq. inch | Static Pressure 15" Water<br>8.67 oza. per sq. inch | Static Pressure 16" Water<br>9.25 oza. per sq. inch |
|--------|------------------|------------------|---|---|---|---|---|---|---|
| 350    | 11000            | 9 57             | 45,000  | 110   |   |   |   |   |   |
| 366    | 11500            | 10 5             | 69,700  | 170   | 44,200  | 120   |   |   |   |
| 382    | 12000            | 11 4             | 84,300  | 215   | 70,600  | 190   | 45,400  | 135   |   |
| 398    | 12500            | 12 4             | 96,000  | 260   | 86,100  | 240   | 73,000  | 215   | 47,500  |
| 414    | 13000            | 13 4             | 107,000   | 310   | 98,500  | 290   | 88,700  | 270   | 75,800  |
| 430    | 13500            | 14 4             | 117,000   | 360   | 109,000   | 345   | 101,000   | 325   | 91,100  |
| 446    | 14000            | 15 5             | 126,000   | 415   | 119,000   | 400   | 112,000   | 380   | 104,000   |



### Single Width

**When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances**

[illegible]

**Single Inlet    11' Steel Plate Fan—Design 2—Cont'd    Single Width**

**When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances**

[illegible]

### Single Width

**When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances**

[illegible]

**When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances**

491

### Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

[illegible]

**Double Inlet    4' Steel Plate Fan—Design 2—Cont'd    Single Width**  
**When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances**

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.<br>Static Pressure 3½" Water<br>2.02 oza. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure 4" Water<br>2.31 oza. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure 5" Water<br>2.89 oza. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure 6" Water<br>3.47 oza. per sq. inch | P. H. | Volume C.F.M.<br>Static Pressure 7" Water<br>4.05 oza. per sq. inch | P. H. | Volume C.F.M.<br>Static Pressure 8" Water<br>4.63 oza. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure 9" Water<br>5.2 oza. per sq. inch | H. P. |
|--------|------------------|------------------|--|-------|---|-------|---|-------|---|-------|---|-------|---|-------|--|-------|
| 517    | 6500             | 3 49             | 6,440  | 5.3   |   |       |   |       |   |       |   |       |   |       |  |       |
| 537    | 6750             | 3 76             | 8,240  | 7 1   | 3,970   | 4.1   |   |       |   |       |   |       |   |       |  |       |
| 557    | 7000             | 4 04             | 9,620  | 8 7   | 7,220   | 6 8   |   |       |   |       |   |       |   |       |  |       |
| 575    | 7250             | 4 34             | 11,000   | 10 5  | 8,990   | 8 9   |   |       |   |       |   |       |   |       |  |       |
| 597    | 7500             | 4 64             | 12,100   | 12.5  | 10,400  | 11 0  |   |       |   |       |   |       |   |       |  |       |
| 615    | 7750             | 4 96             | 13,300   | 14.5  | 11,800  | 13 0  | 7,450   | 8 6   |   |       |   |       |   |       |  |       |
| 637    | 8000             | 5 28             | 14,300   | 16.5  | 12,900  | 15 0  | 9,350   | 11 5  |   |       |   |       |   |       |  |       |
| 655    | 8250             | 5 62             | 15,300   | 19.0  | 14,000  | 17 5  | 11,000  | 13 5  |   |       |   |       |   |       |  |       |
| 677    | 8500             | 5 96             | 16,400   | 21 5  | 15,200  | 19.5  | 12,300  | 16 5  | 8,270   | 11.5  |   |       |   |       |  |       |
| 695    | 8750             | 6 32             | 17,400   | 24    | 16,100  | 22    | 13,500  | 19.0  | 10,200  | 14 5  |   |       |   |       |  |       |
| 717    | 9000             | 6 68             | 18,300   | 27    | 17,100  | 25    | 14,700  | 21.5  | 11,700  | 17 5  | 6,760   | 11.5  |   |       |  |       |
| 756    | 9500             | 7 45             | 20,100   | 33    | 19,100  | 31    | 16,900  | 28    | 14,500  | 24    | 11,300  | 19    |   |       |  |       |
| 796    | 10000            | 8 25             | 21,900   | 40    | 21,000  | 38    | 18,900  | 34    | 16,800  | 30    | 14,200  | 26    | 11,000  | 21    |  |       |
| 837    | 10500            | 9 10             |  |       | 22,700  | 45    | 20,900  | 41    | 18,800  | 37    | 16,700  | 33    | 14,100  | 29    | 10,800   | 23    |
| 877    | 11000            | 9 98             |  |       |   |       | 22,800  | 50    | 21,000  | 46    | 18,900  | 41    | 16,700  | 37    | 14,200   | 32    |
| 917    | 11500            | 10 9             |  |       |   |       | 24,500  | 58    | 22,900  | 54    | 21,000  | 50    | 19,100  | 46    | 16,900   | 41    |
| 956    | 12000            | 11 9             |  |       |   |       | 26,300  | 68    | 24,800  | 64    | 23,100  | 60    | 21,200  | 56    | 19,400   | 50    |
| 996    | 12500            | 12 9             |  |       |   |       |   |       | 26,700  | 76    | 25,100  | 70    | 23,400  | 66    | 21,700   | 62    |
| 1035   | 13000            | 13 9             |  |       |   |       |   |       | 28,300  | 86    | 26,000  | 82    | 25,400  | 78    | 23,700   | 72    |
| 1075   | 13500            | 15 0             |  |       |   |       |   |       |   |       | 28,800  | 96    | 27,300  | 90    | 25,800   | 86    |
| 1115   | 14000            | 16 2             |  |       |   |       |   |       |   |       | 30,500  | 110   | 29,100  | 105   | 27,800   | 98    |
| 1150   | 14500            | 17 4             |  |       |   |       |   |       |   |       |   |       | 31,000  | 115   | 29,600   | 115   |
| 1190   | 15000            | 18 6             |  |       |   |       |   |       |   |       |   |       | 32,700  | 135   | 31,500   | 130   |
| 1230   | 15500            | 19 8             |  |       |   |       |   |       |   |       |   |       |   |       | 33,300   | 145   |
| 1270   | 16000            | 21 1             |  |       |   |       |   |       |   |       |   |       |   |       | 35,100   | 160   |
| 1310   | 16500            | 22 5             |  |       |   |       |   |       |   |       |   |       |   |       |  |       |
| 1350   | 17000            | 23 8             |  |       |   |       |   |       |   |       |   |       |   |       |  |       |
| 1390   | 17500            | 25 3             |  |       |   |       |   |       |   |       |   |       |   |       |  |       |
| 1430   | 18000            | 26 7             |  |       |   |       |   |       |   |       |   |       |   |       |  |       |
| 1470   | 18500            | 28 2             |  |       |   |       |   |       |   |       |   |       |   |       |  |       |
| 1510   | 19000            | 29 8             |  |       |   |       |   |       |   |       |   |       |   |       |  |       |
| 1550   | 19500            | 31 4             |  |       |   |       |   |       |   |       |   |       |   |       |  |       |
| 1590   | 20000            | 33 0             |  |       |   |       |   |       |   |       |   |       |   |       |  |       |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 10" Water<br>5.78 oza. per sq. inch                  | H. P. | Static Pressure 11" Water<br>6.36 oza. per sq. inch                 | H. P. | Static Pressure 12" Water<br>6.93 oza. per sq. inch                 | H. P. | Static Pressure 13" Water<br>7.51 oza. per sq. inch                 | H. P. | Static Pressure 14" Water<br>8.08 oza. per sq. inch                 | H. P. | Static Pressure 15" Water<br>8.66 oza. per sq. inch                 | H. P. | Static Pressure 16" Water<br>9.24 oza. per sq. inch                | H. P. |
| 877    | 11000            | 9 98             | 10,900   | 25    | 11,200  | 29    |   |       |   |       |   |       |   |       |  |       |
| 917    | 11500            | 10 9             | 14,100   | 36    | 14,800  | 40    | 11,400  | 32    |   |       |   |       |   |       |  |       |
| 956    | 12000            | 11 9             | 17,200   | 45    | 17,800  | 50    | 15,500  | 48    | 12,100  | 37    |   |       |   |       |  |       |
| 996    | 12500            | 12 9             | 19,800   | 56    | 20,200  | 62    | 18,200  | 56    | 15,800  | 50    | 12,700  | 42    |   |       |  |       |
| 1035   | 13000            | 13 9             | 22,000   | 68    | 22,500  | 71    | 20,600  | 68    | 18,700  | 62    | 16,700  | 56    |   |       |  |       |
| 1075   | 13500            | 15 0             | 24,000   | 80    | 24,600  | 86    | 23,000  | 82    | 21,400  | 76    | 19,400  | 70    |   |       |  |       |
| 1115   | 14000            | 16 2             | 26,100   | 92    | 26,600  | 100   | 25,200  | 96    | 23,700  | 90    | 22,100  | 86    |   |       |  |       |
| 1150   | 14500            | 17 4             | 28,200   | 105   | 28,800  | 115   | 27,300  | 110   | 25,900  | 105   | 24,300  | 98    |   |       |  |       |
| 1190   | 15000            | 18 6             | 30,200   | 125   | 30,700  | 130   | 29,400  | 125   | 28,100  | 120   | 26,500  | 115   |   |       |  |       |
| 1230   | 15500            | 19 8             | 32,000   | 140   | 32,600  | 150   | 31,400  | 145   | 30,100  | 140   | 28,600  | 130   |   |       |  |       |
| 1270   | 16000            | 21 1             | 33,900   | 155   | 34,500  | 170   | 33,200  | 165   | 32,000  | 155   | 30,700  | 150   |   |       |  |       |
| 1310   | 16500            | 22 5             | 35,700   | 175   | 36,300  | 190   | 35,200  | 180   | 34,000  | 175   | 32,700  | 170   |   |       |  |       |
| 1350   | 17000            | 23 8             | 37,400   | 195   | 38,000  | 210   | 37,000  | 205   | 35,800  | 195   | 34,800  | 190   |   |       |  |       |
|        |                  |                  |  |       |   |       | 38,700  | 225   | 37,800  | 220   | 36,600  | 215   |   |       |  |       |
|        |                  |                  |  |       |   |       | 40,600  | 250   | 39,500  | 240   | 38,400  | 235   |   |       |  |       |
|        |                  |                  |  |       |   |       |   |       | 41,400  | 270   | 40,300  | 265   |   |       |  |       |
|        |                  |                  |  |       |   |       |   |       |   |       | 42,100  | 290   |   |       |  |       |
|        |                  |                  |  |       |   |       |   |       |   |       | 43,800  | 320   |   |       |  |       |

### Single Width

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M. H. P. Static Pressure 1" Water .073 oza. per sq. inch | Volume C.F.M. H. P. Static Pressure 1½" Water .145 oza. per sq. inch | Volume C.F.M. H. P. Static Pressure 2" Water .217 oza. per sq. inch | Volume C.F.M. H. P. Static Pressure 2½" Water .289 oza. per sq. inch | Volume C.F.M. H. P. Static Pressure 3" Water .361 oza. per sq. inch | Volume C.F.M. H. P. Static Pressure 3½" Water .434 oza. per sq. inch | Volume C.F.M. H. P. Static Pressure 4" Water .505 oza. per sq. inch |
|--------|------------------|------------------|---|--|---|--|---|--|---|
| 99     | 1400             | 0 162            | 2,800   | 0 100  |   |  |   |  |   |
| 113    | 1600             | 0 211            | 3,880   | 0 180  |   |  |   |  |   |
| 127    | 1800             | 0 267            | 4,840   | 0 285  | 2,720   | 0 165  |   |  |   |
| 141    | 2000             | 0 330            |   |  | 4,080   | 0 31   |   |  |   |
| 155    | 2200             | 0 400            |   |  | 5,160   | 0 45   | 3,320   | 0 300  |   |
| 169    | 2400             | 0 475            |   |  | 6,140   | 0 64   | 4,700   | 0 495  | 2,160   |
| 183    | 2600             | 0 558            |   |  | 7,080   | 0 87   | 5,810   | 0 71   | 4,300   |
| 197    | 2800             | 0 647            |   |  |   |  | 6,860   | 0 97   | 5,590   |
| 211    | 3000             | 0 743            |   |  |   |  | 7,840   | 1 25   | 6,700   |
| 225    | 3200             | 0 825            |   |  |   |  | 8,650   | 1 60   | 7,760   |
| 240    | 3400             | 0 953            |   |  |   |  |   |  | 8,740   |
| 254    | 3600             | 1 07             |   |  |   |  |   |  | 9,690   |
| 268    | 3800             | 1 19             |   |  |   |  |   |  | 10,500  |
| 283    | 4000             | 1 32             |   |  |   |  |   |  |   |
| 297    | 4200             | 1 46             |   |  |   |  |   |  |   |
| 311    | 4400             | 1 60             |   |  |   |  |   |  |   |
| 325    | 4600             | 1 75             |   |  |   |  |   |  |   |
| 339    | 4800             | 1 90             |   |  |   |  |   |  |   |
| 353    | 5000             | 2 06             |   |  |   |  |   |  |   |

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 oza. per sq. inch | Static Pressure 1½" Water .723 oza. per sq. inch | Static Pressure 2" Water .87 oza. per sq. inch | Static Pressure 2½" Water 1.01 oza. per sq. inch | Static Pressure 3" Water 1.16 oza. per sq. inch | Static Pressure 3½" Water 1.45 oza. per sq. inch | Static Pressure 4" Water 1.73 oza. per sq. inch |
|--------|------------------|------------------|---|--|--|--|---|--|---|
| 240    | 3400             | 0.953            | 3,260   | 0.78   |  |  |   |  |   |
| 254    | 3600             | 1.07             | 5,470   | 1.35   |  |  |   |  |   |
| 268    | 3800             | 1.19             | 6,900   | 1.85   | 3,510  | 1.05   |   |  |   |
| 283    | 4000             | 1.32             | 8,160   | 2.40   | 6,050  | 1.85   |   |  |   |
| 297    | 4200             | 1.46             | 9,250   | 2.95   | 7,440  | 2.40   | 4,580   | 1.60   |   |
| 311    | 4400             | 1.60             | 10,300  | 3 6  | 8,660  | 3.05   | 6,710   | 2.45   |   |
| 325    | 4600             | 1 75             | 11,300  | 4 4  | 9,840  | 3.80   | 8,130   | 3.20   | 5,770   |
| 339    | 4800             | 1 90             | 12,300  | 5 2  | 10,900   | 4.65   | 9,410   | 3.95   | 7,500   |
| 353    | 5000             | 2.06             | 13,200  | 6  | 11,900   | 5.45   | 10,600  | 4 8  | 8,930   |
| 372    | 5250             | 2 27             |   |  | 11,900   | 5 9  | 10,500  | 5 3  | 9,900   |
| 390    | 5500             | 2 50             |   |  | 13,200   | 7 2  | 11,900  | 6 6  | 10,600  |
| 407    | 5750             | 2.73             |   |  | 14,400   | 8 6  | 13,300  | 7 9  | 12,000  |
| 425    | 6000             | 2.97             |   |  | 15,700   | 10 0   | 14,500  | 9 5  | 13,400  |
| 442    | 6250             | 3.22             |   |  | 16,800   | 12 0   | 15,800  | 11   | 14,700  |
| 460    | 6500             | 3 49             |   |  | 17,900   | 13 5   | 17,000  | 13   | 16,000  |
| 477    | 6750             | 3.76             |   |  |  |  | 18,200  | 15   | 17,200  |
| 495    | 7000             | 4 04             |   |  |  |  | 19,200  | 17   |   |
| 512    | 7250             | 4 34             |   |  |  |  |   |  |   |
| 532    | 7500             | 4 64             |   |  |  |  |   |  |   |
| 548    | 7750             | 4.96             |   |  |  |  |   |  |   |
| 566    | 8000             | 5.28             |   |  |  |  |   |  |   |
| 583    | 8250             | 5 62             |   |  |  |  |   |  |   |
| 601    | 8500             | 5 96             |   |  |  |  |   |  |   |
| 618    | 8750             | 6 32             |   |  |  |  |   |  |   |
| 636    | 9000             | 6.68             |   |  |  |  |   |  |   |

**Double Inlet  $4\frac{1}{2}'$  Steel Plate Fan—Design 2—Cont'd Single Width**  
**When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances.**

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M. H. P. Static Pressure 3½" Water 2.02 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 4" Water 2.31 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 5" Water 2.89 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 6" Water 3.47 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 7" Water 4.05 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 8" Water 4.63 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 9" Water 5.2 ozs. per sq. inch |
|--------|------------------|------------------|--|---|---|---|---|---|--|
| 460    | 6500             | 3.49             | 8,120 6.7  |   |   |   |   |   |  |
| 477    | 6750             | 3.76             | 10,400 8.9   | 5,020 5.2   |   |   |   |   |  |
| 495    | 7000             | 4.01             | 12,100 11.0  | 9,130 8.6   |   |   |   |   |  |
| 512    | 7250             | 4.34             | 13,800 13.5  | 11,400 11.0   |   |   |   |   |  |
| 532    | 7500             | 4.64             | 15,300 15.5  | 13,100 13.5   |   |   |   |   |  |
| 548    | 7750             | 4.96             | 16,800 18.0  | 14,900 16.5   | 9,400 11.0  |   |   |   |  |
| 566    | 8000             | 5.28             | 18,100 21.0  | 16,300 19   | 11,800 14.0   |   |   |   |  |
| 583    | 8250             | 5.62             | 19,400 23.5  | 17,700 22   | 13,800 17.5   |   |   |   |  |
| 601    | 8500             | 5.96             | 20,700 27  | 19,000 25   | 15,500 21   | 10,400 14.5   |   |   |  |
| 618    | 8750             | 6.32             | 21,900 30  | 20,300 28   | 17,100 24   | 12,900 18.5   |   |   |  |
| 636    | 9000             | 6.68             | 23,200 34  | 21,600 31   | 18,500 27   | 14,800 22   | 8,540 14.5  |   |  |
| 672    | 9500             | 7.45             | 25,400 42  | 24,200 40   | 21,300 35   | 18,300 30   | 14,300 24   |   |  |
| 708    | 10000            | 8.25             | 27,600 50  | 26,500 48   | 23,900 43   | 21,200 38   | 17,900 33   | 13,900 26   |  |
| 743    | 10500            | 9.10             |  | 28,700 56   | 26,400 52   | 23,800 47   | 21,000 42   | 17,800 36   | 13,700 29  |
| 779    | 11000            | 9.98             |  |   | 28,800 61   | 26,400 58   | 23,900 52   | 21,100 47   | 18,000 40  |
| 814    | 11500            | 10.9             |  |   | 31,000 74   | 28,900 68   | 26,500 64   | 24,100 58   | 21,400 52  |
| 850    | 12000            | 11.9             |  |   | 33,100 86   | 31,300 82   | 29,100 76   | 26,800 70   | 24,500 64  |
| 885    | 12500            | 12.9             |  |   |   | 33,700 96   | 31,600 90   | 29,500 82   | 27,400 78  |
| 920    | 13000            | 13.9             |  |   |   | 35,800 110  | 34,000 105  | 32,000 98   | 30,000 92  |
| 955    | 13500            | 15.0             |  |   |   |   | 36,400 120  | 34,400 115  | 32,500 105   |
| 990    | 14000            | 16.2             |  |   |   |   | 38,500 135  | 36,700 130  | 35,100 125   |
| 1022   | 14500            | 17.4             |  |   |   |   |   | 39,100 150  | 37,400 145   |
| 1059   | 15000            | 18.6             |  |   |   |   |   | 41,200 170  | 39,800 160   |
| 1097   | 15500            | 19.8             |  |   |   |   |   |   | 42,000 180   |
| 1130   | 16000            | 21.1             |  |   |   |   |   |   | 44,300 205   |
|        |                  |                  |  |   |   |   |   |   |  |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 10" Water 5.78 ozs. per sq. inch                     | Static Pressure 11" Water 6.36 ozs. per sq. inch                    | Static Pressure 12" Water 6.93 ozs. per sq. inch                    | Static Pressure 13" Water 7.51 ozs. per sq. inch                    | Static Pressure 14" Water 8.08 ozs. per sq. inch                    | Static Pressure 00" Water 00.0 ozs. per sq. inch                    | Static Pressure 00" Water 00.0 ozs. per sq. inch                   |
| 779    | 11000            | 9.98             | 13,800 32  |   |   |   |   |   |  |
| 814    | 11500            | 10.9             | 18,200 45  | 14,100 36   |   |   |   |   |  |
| 850    | 12000            | 11.9             | 21,700 58  | 18,600 50   | 14,400 40   |   |   |   |  |
| 885    | 12500            | 12.9             | 24,900 70  | 22,300 64   | 19,600 58   | 15,300 47   |   |   |  |
| 920    | 13000            | 13.9             | 27,800 86  | 25,500 78   | 23,000 72   | 19,900 64   | 16,100 52   |   |  |
| 955    | 13500            | 15.0             | 30,300 100   | 28,400 94   | 26,000 86   | 23,600 80   | 21,100 72   |   |  |
| 990    | 14000            | 16.2             | 33,000 115   | 31,100 110  | 29,000 105  | 27,000 96   | 24,500 88   |   |  |
| 1022   | 14500            | 17.4             | 35,700 135   | 33,600 125  | 31,900 120  | 29,900 115  | 27,900 105  |   |  |
| 1059   | 15000            | 18.6             | 38,100 155   | 36,300 145  | 34,400 140  | 32,700 135  | 30,600 125  |   |  |
| 1097   | 15500            | 19.8             | 40,500 175   | 38,800 165  | 37,100 160  | 35,400 155  | 33,500 145  |   |  |
| 1130   | 16000            | 21.1             | 42,800 200   | 41,200 190  | 39,600 185  | 38,000 175  | 36,100 165  |   |  |
| 1166   | 16500            | 22.5             | 45,100 220   | 43,500 215  | 42,000 210  | 40,500 200  | 38,700 190  |   |  |
| 1200   | 17000            | 23.8             | 47,200 250   | 45,800 240  | 44,400 230  | 43,000 225  | 41,200 215  |   |  |
| 1235   | 17500            | 25.3             |  | 48,000 265  | 46,700 260  | 45,300 250  | 43,900 240  |   |  |
| 1270   | 18000            | 26.7             |  |   | 48,900 285  | 47,800 275  | 46,200 270  |   |  |
| 1307   | 18500            | 28.2             |  |   | 51,200 315  | 49,900 305  | 48,400 295  |   |  |
| 1340   | 19000            | 29.8             |  |   |   | 52,200 340  | 50,800 335  |   |  |
| 1378   | 19500            | 31.4             |  |   |   |   | 53,100 365  |   |  |
| 1411   | 20000            | 33               |  |   |   |   | 55,300 400  |   |  |



### Single Width

**When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances**

[illegible]

### Single Width

**When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances**

[illegible]

| Double Inlet   |                  |                  | 5½' Steel Plate Fan—Design 2                    |       |  |       |   |       |  |       |  |       | Single Width   |       |  |       |
|--|------------------|------------------|---|-------|--|-------|---|-------|--|-------|--|-------|--|-------|--|-------|
| When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances |                  |                  |   |       |  |       |   |       |  |       |  |       |  |       |  |       |
| R.P.M.   | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.                                   | H. P. | Volume C.F.M.                                    | H. P. | Volume C.F.M.   | H. P. | Volume C.F.M.  | H. P. | Volume C.F.M.  | H. P. | Volume C.F.M.  | H. P. | Volume C.F.M.  | H. P. |
|  |                  |                  | Static Pressure ½" Water .073 ozs. per sq. inch |       | Static Pressure ¾" Water .145 ozs. per sq. inch  |       | Static Pressure 1" Water .217 ozs. per sq. inch         |       | Static Pressure 1½" Water .289 ozs. per sq. inch           |       | Static Pressure 2" Water .361 ozs. per sq. inch          |       | Static Pressure 2½" Water .434 ozs. per sq. inch           |       | Static Pressure 3" Water .505 ozs. per sq. inch          |       |
| 81   | 1400             | 0 162            | 4,190   | 0 150 |  |       |   |       |  |       |  |       |  |       |  |       |
| 93   | 1600             | 0 211            | 5,790   | 0 270 |  |       |   |       |  |       |  |       |  |       |  |       |
| 104  | 1800             | 0 267            | 7,220   | 0 325 | 4,050  | 0 245 |   |       |  |       |  |       |  |       |  |       |
| 116  | 2000             | 0 330            |   |       | 6,100  | 0 46  |   |       |  |       |  |       |  |       |  |       |
| 127  | 2200             | 0 400            |   |       | 7,710  | 0 67  | 4,960   | 0 45  |  |       |  |       |  |       |  |       |
| 139  | 2400             | 0 475            |   |       | 9,180  | 0 95  | 7,020   | 0 74  | 3,230  | 0 39  |  |       |  |       |  |       |
| 150  | 2600             | 0 558            |   |       | 10,600   | 1 3   | 8,670   | 1 05  | 6,430  | 0 81  |  |       |  |       |  |       |
| 162  | 2800             | 0 647            |   |       |  |       | 10,300  | 1 45  | 8,350  | 1 20  | 5,950  | 0 89  |  |       |  |       |
| 174  | 3000             | 0 743            |   |       |  |       | 11,700  | 1 90  | 10,000   | 1 65  | 8,160  | 1 35  | 5,440  | 0 95  |  |       |
| 185  | 3200             | 0 825            |   |       |  |       | 12,900  | 2 35  | 11,600   | 2 10  | 9,750  | 1 75  | 7,700  | 1 45  | 4,030  | 0 87  |
| 197  | 3400             | 0 953            |   |       |  |       |   |       | 13,100   | 2 75  | 11,500   | 2 40  | 9,970  | 2 10  | 8,020  | 1 75  |
| 208  | 3600             | 1 07             |   |       |  |       |   |       | 14,500   | 3 40  | 13,000   | 3 05  | 11,700   | 2 75  | 10,200   | 2 45  |
| 220  | 3800             | 1 19             |   |       |  |       |   |       | 15,700   | 4 1   | 14,500   | 3 80  | 13,300   | 3 45  | 11,800   | 3 10  |
| 232  | 4000             | 1 32             |   |       |  |       |   |       |  |       | 16,000   | 4 65  | 14,900   | 4 3   | 13,500   | 3 90  |
| 243  | 4200             | 1 46             |   |       |  |       |   |       |  |       | 17,300   | 5 5   | 16,200   | 5 2   | 15,000   | 4 75  |
| 255  | 4400             | 1 60             |   |       |  |       |   |       |  |       |  |       | 17,600   | 6 2   | 16,600   | 5 8   |
| 266  | 4600             | 1 75             |   |       |  |       |   |       |  |       |  |       | 19,000   | 7 3   | 18,000   | 6 9   |
| 278  | 4800             | 1 90             |   |       |  |       |   |       |  |       |  |       |  |       | 19,300   | 8 1   |
| 290  | 5000             | 2 06             |   |       |  |       |   |       |  |       |  |       |  |       | 20,600   | 9 3   |
|  |                  |                  |   |       |  |       |   |       |  |       |  |       |  |       |  |       |
| R.P.M.   | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 ozs. per sq. inch |       | Static Pressure 1½" Water .723 ozs. per sq. inch |       | Static Pressure 2" Water 1" Water .87 ozs. per sq. inch |       | Static Pressure 2½" Water 1½" Water 1.01 ozs. per sq. inch |       | Static Pressure 3" Water 2" Water 1.16 ozs. per sq. inch |       | Static Pressure 3½" Water 2½" Water 1.45 ozs. per sq. inch |       | Static Pressure 4" Water 3" Water 1.73 ozs. per sq. inch |       |
| 197  | 3400             | 0 953            | 4,870   | 1 15  |  |       |   |       |  |       |  |       |  |       |  |       |
| 208  | 3600             | 1 07             | 8,170   | 2 00  |  |       |   |       |  |       |  |       |  |       |  |       |
| 220  | 3800             | 1 19             | 10,300  | 2 75  | 5,240  | 1 55  |   |       |  |       |  |       |  |       |  |       |
| 232  | 4000             | 1 32             | 12,200  | 3 55  | 9,030  | 2 75  |   |       |  |       |  |       |  |       |  |       |
| 243  | 4200             | 1 46             | 13,800  | 4 4   | 11,100   | 3 6   | 6,830   | 2 40  |  |       |  |       |  |       |  |       |
| 255  | 4400             | 1 60             | 15,500  | 5 4   | 12,500   | 4 6   | 10,000  | 3 65  |  |       |  |       |  |       |  |       |
| 266  | 4600             | 1 75             | 16,900  | 6 5   | 14,700   | 5 7   | 12,100  | 4 75  | 8,600  | 3 55  |  |       |  |       |  |       |
| 278  | 4800             | 1 90             | 18,300  | 7 8   | 16,300   | 7 0   | 14,100  | 5 9   | 11,200   | 4 8   | 6,570  | 3 15  |  |       |  |       |
| 290  | 5000             | 2 06             | 19,800  | 9     | 17,800   | 8 1   | 15,800  | 7 2   | 13,300   | 5 1   | 14,400   | 4 9   |  |       |  |       |
| 301  | 5250             | 2 27             |   |       |  |       | 17,700  | 8 8   | 15,700   | 7 9   | 13,300   | 6 8   |  |       |  |       |
| 318  | 5500             | 2 50             |   |       |  |       | 19,700  | 10 5  | 17,900   | 9 8   | 15,800   | 8 8   | 10,300   | 6 0   |  |       |
| 332  | 5750             | 2 73             |   |       |  |       | 21,600  | 13 0  | 19,800   | 12 0  | 18,000   | 11 0  | 13,600   | 8 4   |  |       |
| 348  | 6000             | 2 97             |   |       |  |       | 23,400  | 15 5  | 21,700   | 14 0  | 20,000   | 13 0  | 16,300   | 11 0  | 10,800   | 7 6   |
| 361  | 6250             | 3 22             |   |       |  |       | 25,100  | 18 0  | 23,700   | 16 5  | 21,900   | 15 5  | 18,500   | 13 0  | 14,200   | 10 5  |
| 376  | 6500             | 3 49             |   |       |  |       | 26,700  | 20 5  | 25,100   | 19 5  | 23,900   | 18 5  | 20,800   | 16 0  | 17,100   | 13 5  |
| 390  | 6750             | 3 76             |   |       |  |       |   |       | 27,200   | 22 5  | 25,800   | 21 0  | 22,700   | 18 5  | 19,400   | 16 0  |
| 405  | 7000             | 4 04             |   |       |  |       |   |       | 28,700   | 26    | 27,400   | 23 5  | 24,600   | 21 5  | 21,700   | 19 5  |
| 419  | 7250             | 4 34             |   |       |  |       |   |       |  |       | 29,200   | 28    | 26,600   | 25    | 23,700   | 22 5  |
| 435  | 7500             | 4 64             |   |       |  |       |   |       |  |       | 30,700   | 31    | 28,500   | 29    | 25,700   | 26    |
| 448  | 7750             | 4 96             |   |       |  |       |   |       |  |       |  |       | 30,300   | 33    | 27,600   | 30    |
| 464  | 8000             | 5 28             |   |       |  |       |   |       |  |       |  |       | 32,000   | 37    | 29,500   | 34    |
| 477  | 8250             | 5 62             |   |       |  |       |   |       |  |       |  |       | 33,600   | 41    | 31,400   | 39    |
| 491  | 8500             | 5 96             |   |       |  |       |   |       |  |       |  |       | 35,200   | 45    | 33,700   | 43    |
| 506  | 8750             | 6 32             |   |       |  |       |   |       |  |       |  |       |  |       | 34,900   | 48    |
| 520  | 9000             | 6 68             |   |       |  |       |   |       |  |       |  |       |  |       | 36,600   | 53    |

**Double Inlet 5½' Steel Plate Fan—Design 2—Cont'd Single Width**  
When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

[illegible]

| Double Inlet   |                  |                  | 6' Steel Plate Fan—Design 2                     |       |  |       |   |       |  |       |   |       | Single Width                                     |       |   |       |
|--|------------------|------------------|---|-------|--|-------|---|-------|--|-------|---|-------|--|-------|---|-------|
| When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances |                  |                  |   |       |  |       |   |       |  |       |   |       |  |       |   |       |
| R.P.M.   | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.                                   | H. P. | Volume C.F.M.                                    | H. P. | Volume C.F.M.                                   | H. P. | Volume C.F.M.                                    | H. P. | Volume C.F.M.                                   | H. P. | Volume C.F.M.                                    | H. P. | Volume C.F.M.                                   | H. P. |
|  |                  |                  | Static Pressure 1" Water .073 ozs. per sq. inch |       | Static Pressure 1½" Water .145 ozs. per sq. inch |       | Static Pressure 2" Water .217 ozs. per sq. inch |       | Static Pressure 2½" Water .289 ozs. per sq. inch |       | Static Pressure 3" Water .361 ozs. per sq. inch |       | Static Pressure 3½" Water .434 ozs. per sq. inch |       | Static Pressure 4" Water .505 ozs. per sq. inch |       |
| 74   | 1400             | 0 162            | 4,990   | 0 18  |  |       |   |       |  |       |   |       |  |       |   |       |
| 85   | 1600             | 0 211            | 6,900   | 0 32  |  |       |   |       |  |       |   |       |  |       |   |       |
| 95   | 1800             | 0 267            | 8,610   | 0 51  | 4,830  | 0 205 |   |       |  |       |   |       |  |       |   |       |
| 106  | 2000             | 0 330            |   |       | 7,260  | 0 55  |   |       |  |       |   |       |  |       |   |       |
| 117  | 2200             | 0 400            |   |       | 9,200  | 0 80  | 5,910   | 0 54  |  |       |   |       |  |       |   |       |
| 127  | 2400             | 0 475            |   |       | 10,900   | 1 15  | 8,350   | 0 88  | 3,850  | 0 465 |   |       |  |       |   |       |
| 138  | 2600             | 0 558            |   |       | 12,600   | 1 55  | 10,300  | 1 25  | 7,660  | 0 96  |   |       |  |       |   |       |
| 149  | 2800             | 0 647            |   |       |  |       | 12,200  | 1 75  | 9,950  | 1 40  | 7,080   | 1 05  |  |       |   |       |
| 159  | 3000             | 0 743            |   |       |  |       | 13,900  | 2 25  | 11,900   | 1 95  | 9,730   | 1 65  | 6,480  | 1 15  |   |       |
| 170  | 3200             | 0 825            |   |       |  |       | 15,400  | 2 8   | 13,800   | 2 50  | 11,600  | 2 10  | 9,180  | 1 70  | 4,800   | 1 05  |
| 180  | 3400             | 0 953            |   |       |  |       |   |       | 15,600   | 3 25  | 13,700  | 2 85  | 11,900   | 2 50  | 9,550   | 2 05  |
| 191  | 3600             | 1 07             |   |       |  |       |   |       | 17,200   | 4 05  | 15,500  | 3 65  | 13,900   | 3 25  | 12,100  | 2 90  |
| 202  | 3800             | 1 19             |   |       |  |       |   |       | 18,700   | 4 9   | 17,300  | 4 55  | 15,800   | 4 1   | 14,100  | 3 70  |
| 212  | 4000             | 1 32             |   |       |  |       |   |       |  |       | 19,100  | 5 6   | 17,700   | 5 1   | 16,100  | 4 65  |
| 223  | 4200             | 1 46             |   |       |  |       |   |       |  |       | 20,900  | 6 5   | 19,300   | 6 2   | 17,900  | 5 7   |
| 233  | 4400             | 1 60             |   |       |  |       |   |       |  |       |   |       | 21,000   | 7 4   | 19,700  | 7 0   |
| 244  | 4600             | 1 75             |   |       |  |       |   |       |  |       |   |       | 22,600   | 8 7   | 21,400  | 8 2   |
| 255  | 4800             | 1 90             |   |       |  |       |   |       |  |       |   |       |  |       | 23,000  | 9 6   |
| 266  | 5000             | 2 06             |   |       |  |       |   |       |  |       |   |       |  |       | 24,600  | 11    |

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 ozs. per sq. inch |      | Static Pressure 1½" Water .723 ozs. per sq. inch |      | Static Pressure 2" Water .87 ozs. per sq. inch |      | Static Pressure 2½" Water 1.01 ozs. per sq. inch |      | Static Pressure 3" Water 1.16 ozs. per sq. inch |      | Static Pressure 3½" Water 1.45 ozs. per sq. inch |     | Static Pressure 4" Water 1.73 ozs. per sq. inch |      |
|--------|------------------|------------------|---|------|--|------|--|------|--|------|---|------|--|-----|---|------|
| 180    | 3400             | 0 953            | 5,800   | 1 40 |  |      |  |      |  |      |   |      |  |     |   |      |
| 191    | 3600             | 1 07             | 9,730   | 2 35 |  |      |  |      |  |      |   |      |  |     |   |      |
| 202    | 3800             | 1 19             | 12,300  | 3 25 | 6,250  | 1 85 |  |      |  |      |   |      |  |     |   |      |
| 212    | 4000             | 1 32             | 14,500  | 4 25 | 10,800   | 3 25 |  |      |  |      |   |      |  |     |   |      |
| 223    | 4200             | 1 46             | 16,500  | 5 2  | 13,200   | 4 3  | 8,130  | 2 85 |  |      |   |      |  |     |   |      |
| 233    | 4400             | 1 60             | 18,400  | 6 1  | 15,400   | 5 4  | 11,900   | 4 35 |  |      |   |      |  |     |   |      |
| 244    | 4600             | 1 75             | 20,200  | 7 7  | 17,500   | 6 7  | 14,500   | 5 7  | 10,200   | 4 2  |   |      |  |     |   |      |
| 255    | 4800             | 1 90             | 21,800  | 9 2  | 19,400   | 8 3  | 16,700   | 7 0  | 13,300   | 5 7  | 7,820   | 3 75 |  |     |   |      |
| 266    | 5000             | 2 06             | 23,600  | 11   | 21,200   | 9 7  | 18,800   | 8 5  | 15,900   | 7 3  | 12,300  | 5 9  |  |     |   |      |
| 278    | 5250             | 2 27             |   |      |  |      | 21,200   | 10 5 | 18,700   | 9 4  | 15,800  | 8 1  |  |     |   |      |
| 292    | 5500             | 2 50             |   |      |  |      | 23,500   | 13 0 | 21,300   | 11 5 | 18,900  | 10 5 | 12,200   | 7 2 |   |      |
| 305    | 5750             | 2 73             |   |      |  |      | 25,700   | 15 5 | 23,600   | 14   | 21,400  | 13 0 | 16,200   | 10  |   |      |
| 318    | 6000             | 2 97             |   |      |  |      | 27,900   | 18 0 | 25,900   | 17   | 23,800  | 15 5 | 19,400   | 13  | 12,800  | 9 0  |
| 332    | 6250             | 3 22             |   |      |  |      | 29,900   | 21 0 | 28,200   | 20   | 26,200  | 18 5 | 22,100   | 16  | 16,900  | 12 5 |
| 345    | 6500             | 3 49             |   |      |  |      | 31,900   | 24 5 | 30,300   | 23   | 28,500  | 22   | 24,700   | 19  | 20,400  | 16 0 |
| 358    | 6750             | 3 76             |   |      |  |      |  |      | 32,400   | 27   | 30,600  | 25   | 27,000   | 22  | 23,200  | 19 5 |
| 372    | 7000             | 4 04             |   |      |  |      |  |      | 34,200   | 30   | 32,600  | 29   | 29,300   | 26  | 25,900  | 23   |
| 384    | 7250             | 4 34             |   |      |  |      |  |      |  |      | 34,800  | 33   | 31,700   | 30  | 28,200  | 27   |
| 398    | 7500             | 4 64             |   |      |  |      |  |      |  |      | 36,600  | 37   | 33,900   | 35  | 30,600  | 31   |
| 410    | 7750             | 4 96             |   |      |  |      |  |      |  |      |   |      | 36,000   | 39  | 32,900  | 36   |
| 425    | 8000             | 5 28             |   |      |  |      |  |      |  |      |   |      | 38,000   | 44  | 35,100  | 41   |
| 437    | 8250             | 5 62             |   |      |  |      |  |      |  |      |   |      | 40,000   | 49  | 37,400  | 46   |
| 451    | 8500             | 5 96             |   |      |  |      |  |      |  |      |   |      | 41,900   | 54  | 39,500  | 52   |
| 464    | 8750             | 6 32             |   |      |  |      |  |      |  |      |   |      |  |     | 41,600  | 58   |
| 478    | 9000             | 6 68             |   |      |  |      |  |      |  |      |   |      |  |     | 43,500  | 64   |

**Double Inlet    6' Steel Plate Fan—Design 2—Cont'd    Single Width**  
**When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances**

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.<br>Static Pressure 3½" Water<br>2.02 ozs. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure 4" Water<br>2.31 ozs. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure 5" Water<br>2.89 ozs. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure 6" Water<br>3.47 ozs. per sq. inch | P. H. | Volume C.F.M.<br>Static Pressure 7" Water<br>4.05 ozs. per sq. inch | P. H. | Volume C.F.M.<br>Static Pressure 8" Water<br>4.63 ozs. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure 9" Water<br>5.2 ozs. per sq. inch | H. P. |
|--------|------------------|------------------|--|-------|---|-------|---|-------|---|-------|---|-------|---|-------|--|-------|
| 345    | 6500             | 3.49             | 14,500   | 12.0  |   |       |   |       |   |       |   |       |   |       |  |       |
| 358    | 6750             | 3.76             | 18,500   | 16.0  | 8,920   | 9.2   |   |       |   |       |   |       |   |       |  |       |
| 372    | 7000             | 4.04             | 21,600   | 19.5  | 16,200  | 15    |   |       |   |       |   |       |   |       |  |       |
| 384    | 7250             | 4.34             | 24,000   | 23.5  | 20,200  | 20    |   |       |   |       |   |       |   |       |  |       |
| 398    | 7500             | 4.64             | 27,200   | 28    | 23,300  | 24    |   |       |   |       |   |       |   |       |  |       |
| 410    | 7750             | 4.96             | 29,800   | 32    | 26,400  | 29    | 16,700  | 19.5  |   |       |   |       |   |       |  |       |
| 425    | 8000             | 5.28             | 32,200   | 37    | 29,000  | 34    | 21,000  | 25    |   |       |   |       |   |       |  |       |
| 437    | 8250             | 5.62             | 34,500   | 42    | 31,500  | 39    | 24,600  | 31    |   |       |   |       |   |       |  |       |
| 451    | 8500             | 5.96             | 36,800   | 48    | 33,800  | 44    | 27,500  | 37    | 18,600  | 26    |   |       |   |       |  |       |
| 464    | 8750             | 6.32             | 39,000   | 54    | 36,200  | 50    | 30,200  | 43    | 23,000  | 34    |   |       |   |       |  |       |
| 478    | 9000             | 6.68             | 41,200   | 60    | 38,400  | 56    | 33,100  | 49    | 26,400  | 40    | 15,200  | 26    |   |       |  |       |
| 504    | 9500             | 7.45             | 45,200   | 74    | 43,000  | 70    | 37,800  | 62    | 32,500  | 54    | 25,400  | 43    |   |       |  |       |
| 530    | 10000            | 8.25             | 49,200   | 88    | 47,200  | 86    | 42,500  | 76    | 37,600  | 68    | 31,900  | 58    | 24,700  | 47    |  |       |
| 558    | 10500            | 9.10             |  |       | 51,000  | 100   | 47,000  | 94    | 42,300  | 84    | 37,400  | 76    | 31,800  | 64    | 24,400   | 52    |
| 584    | 11000            | 9.98             |  |       |   |       | 51,300  | 110   | 47,000  | 100   | 42,500  | 94    | 37,500  | 84    | 31,900   | 72    |
| 611    | 11500            | 10.9             |  |       |   |       | 55,200  | 130   | 51,500  | 120   | 47,300  | 115   | 43,000  | 105   | 38,000   | 92    |
| 637    | 12000            | 11.9             |  |       |   |       | 59,000  | 155   | 55,700  | 145   | 51,900  | 135   | 47,700  | 125   | 43,700   | 115   |
| 663    | 12500            | 12.9             |  |       |   |       |   |       | 60,000  | 170   | 56,400  | 160   | 52,500  | 145   | 48,700   | 140   |
| 690    | 13000            | 13.9             |  |       |   |       |   |       | 63,600  | 195   | 60,500  | 185   | 56,900  | 175   | 53,400   | 165   |
| 717    | 13500            | 15.0             |  |       |   |       |   |       |   |       | 64,800  | 215   | 61,200  | 200   | 57,900   | 190   |
| 743    | 14000            | 16.2             |  |       |   |       |   |       |   |       | 68,500  | 245   | 65,400  | 230   | 62,400   | 220   |
| 768    | 14500            | 17.4             |  |       |   |       |   |       |   |       |   |       | 69,500  | 265   | 66,600   | 255   |
| 790    | 15000            | 18.6             |  |       |   |       |   |       |   |       |   |       | 73,300  | 300   | 70,700   | 290   |
| 820    | 15500            | 19.8             |  |       |   |       |   |       |   |       |   |       |   |       | 74,700   | 325   |
| 846    | 16000            | 21.1             |  |       |   |       |   |       |   |       |   |       |   |       | 78,800   | 365   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 10" Water<br>5.78 ozs. per sq. inch                  |       | Static Pressure 11" Water<br>6.36 ozs. per sq. inch                 |       | Static Pressure 12" Water<br>6.93 ozs. per sq. inch                 |       | Static Pressure 13" Water<br>7.51 ozs. per sq. inch                 |       | Static Pressure 14" Water<br>8.08 ozs. per sq. inch                 |       | Static Pressure 15" Water<br>8.66 ozs. per sq. inch                 |       | Static Pressure 16" Water<br>9.24 ozs. per sq. inch                |       |
| 584    | 11000            | 9.98             | 24,500   | 58    |   |       |   |       |   |       |   |       |   |       |  |       |
| 611    | 11500            | 10.9             | 32,400   | 80    | 25,100  | 64    |   |       |   |       |   |       |   |       |  |       |
| 637    | 12000            | 11.9             | 38,600   | 100   | 33,200  | 90    | 25,600  | 72    |   |       |   |       |   |       |  |       |
| 663    | 12500            | 12.9             | 44,300   | 125   | 39,000  | 115   | 34,800  | 100   | 27,300  | 82    |   |       |   |       |  |       |
| 690    | 13000            | 13.9             | 49,500   | 150   | 45,300  | 140   | 40,900  | 125   | 35,500  | 110   | 28,600  | 94    |   |       |  |       |
| 717    | 13500            | 15.0             | 54,000   | 180   | 50,500  | 165   | 46,300  | 155   | 42,000  | 140   | 37,800  | 125   |   |       |  |       |
| 743    | 14000            | 16.2             | 58,700   | 205   | 55,300  | 195   | 51,600  | 185   | 48,000  | 170   | 43,700  | 160   |   |       |  |       |
| 768    | 14500            | 17.4             | 63,500   | 240   | 59,900  | 225   | 56,700  | 215   | 53,200  | 205   | 49,700  | 190   |   |       |  |       |
| 790    | 15000            | 18.6             | 67,800   | 275   | 64,600  | 260   | 61,200  | 250   | 58,100  | 235   | 54,500  | 220   |   |       |  |       |
| 820    | 15500            | 19.8             | 72,000   | 310   | 69,000  | 300   | 66,000  | 285   | 63,000  | 275   | 59,500  | 260   |   |       |  |       |
| 846    | 16000            | 21.1             | 76,000   | 350   | 73,300  | 340   | 70,400  | 325   | 67,600  | 310   | 64,200  | 295   |   |       |  |       |
| 873    | 16500            | 22.5             | 80,200   | 395   | 77,500  | 380   | 74,700  | 370   | 72,000  | 355   | 68,900  | 335   |   |       |  |       |
| 900    | 17000            | 23.8             | 84,000   | 440   | 81,500  | 425   | 79,000  | 410   | 76,400  | 395   | 73,400  | 380   |   |       |  |       |
| 927    | 17500            | 25.3             |  |       | 85,400  | 470   | 83,000  | 460   | 80,500  | 440   | 78,100  | 430   |   |       |  |       |
| 954    | 18000            | 26.7             |  |       |   |       | 87,000  | 510   | 85,000  | 490   | 82,200  | 480   |   |       |  |       |
| 980    | 18500            | 28.2             |  |       |   |       | 91,100  | 560   | 88,700  | 540   | 86,100  | 525   |   |       |  |       |
| 1007   | 19000            | 29.8             |  |       |   |       |   |       | 92,900  | 605   | 90,500  | 600   |   |       |  |       |
| 1033   | 19500            | 31.4             |  |       |   |       |   |       |   |       | 94,500  | 650   |   |       |  |       |
| 1060   | 20000            | 33               |  |       |   |       |   |       |   |       | 98,500  | 715   |   |       |  |       |

| Double Inlet   |                  |                  | 6 1/2" Steel Plate Fan—Design 2                   |       |   |       |   |       |   |       |   |       | Single Width                                      |       |   |       |
|--|------------------|------------------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|
| When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances |                  |                  |   |       |   |       |   |       |   |       |   |       |   |       |   |       |
| R.P.M.   | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.                                     | H. P. | Volume C.F.M.                                     | H. P. | Volume C.F.M.                                     | H. P. | Volume C.F.M.                                     | H. P. | Volume C.F.M.                                     | H. P. | Volume C.F.M.                                     | H. P. | Volume C.F.M.                                     | H. P. |
|  |                  |                  | Static Pressure 3/4" Water .073 oza. per sq. inch |       | Static Pressure 1/2" Water .145 oza. per sq. inch |       | Static Pressure 3/4" Water .217 oza. per sq. inch |       | Static Pressure 1/2" Water .289 oza. per sq. inch |       | Static Pressure 3/4" Water .361 oza. per sq. inch |       | Static Pressure 1/2" Water .434 oza. per sq. inch |       | Static Pressure 3/4" Water .505 oza. per sq. inch |       |
| 69   | 1400             | 0 162            | 5,820   | 0 210 |   |       |   |       |   |       |   |       |   |       |   |       |
| 78   | 1600             | 0 211            | 8,060   | 0 370 |   |       |   |       |   |       |   |       |   |       |   |       |
| 88   | 1800             | 0 267            | 10,100  | 0 59  | 5,640   | 0 345 |   |       |   |       |   |       |   |       |   |       |
| 98   | 2000             | 0 330            |   |       | 8,480   | 0 64  |   |       |   |       |   |       |   |       |   |       |
| 108  | 2200             | 0 400            |   |       | 10,700  | 0 93  | 6,900   | 0 63  |   |       |   |       |   |       |   |       |
| 118  | 2400             | 0 475            |   |       | 12,800  | 1 30  | 9,760   | 1 05  | 4,500   | 0 54  |   |       |   |       |   |       |
| 127  | 2600             | 0 558            |   |       | 14,700  | 1 80  | 12,100  | 1 45  | 8,950   | 1 10  |   |       |   |       |   |       |
| 137  | 2800             | 0 647            |   |       |   |       | 14,300  | 2 00  | 11,000  | 1 65  | 8,270   | 1 25  |   |       |   |       |
| 147  | 3000             | 0 743            |   |       |   |       | 16,300  | 2 65  | 13,900  | 2 25  | 11,400  | 1 90  | 7,460   | 1 35  |   |       |
| 157  | 3200             | 0 825            |   |       |   |       | 18,000  | 3 3   | 16,100  | 2 90  | 13,600  | 2 45  | 10,700  | 2 00  | 5,600   | 1 20  |
| 167  | 3400             | 0 953            |   |       |   |       |   |       | 18,100  | 3 80  | 16,000  | 3 35  | 13,900  | 2 95  | 11,200  | 2 40  |
| 176  | 3600             | 1 07             |   |       |   |       |   |       | 20,100  | 4 75  | 18,100  | 4 25  | 16,200  | 3 80  | 14,100  | 3 35  |
| 186  | 3800             | 1 19             |   |       |   |       |   |       | 21,900  | 5 7   | 20,200  | 5 3   | 18,500  | 4 8   | 16,500  | 4 3   |
| 196  | 4000             | 1 32             |   |       |   |       |   |       |   |       | 22,300  | 6 5   | 20,700  | 6 0   | 18,800  | 5 4   |
| 206  | 4200             | 1 46             |   |       |   |       |   |       |   |       | 24,000  | 7 6   | 22,600  | 7 3   | 20,900  | 6 6   |
| 216  | 4400             | 1 60             |   |       |   |       |   |       |   |       |   |       | 24,500  | 8 6   | 23,100  | 8 1   |
| 225  | 4600             | 1 75             |   |       |   |       |   |       |   |       |   |       | 26,400  | 10    | 25,000  | 9 6   |
| 235  | 4800             | 1 90             |   |       |   |       |   |       |   |       |   |       |   |       | 26,900  | 11    |
| 245  | 5000             | 2 06             |   |       |   |       |   |       |   |       |   |       |   |       | 28,700  | 13    |

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 oza. per sq. inch |      | Static Pressure 1 1/4" Water .723 oza. per sq. inch |     | Static Pressure 1 1/2" Water .87 oza. per sq. inch |      | Static Pressure 1 3/4" Water 1.01 oza. per sq. inch |      | Static Pressure 2" Water 1.16 oza. per sq. inch |      | Static Pressure 2 1/2" Water 1.45 oza. per sq. inch |      | Static Pressure 3" Water 1.73 oza. per sq. inch |      |
|--------|------------------|------------------|---|------|---|-----|--|------|---|------|---|------|---|------|---|------|
| 167    | 3400             | 0 953            | 6,780   | 1 60 |   |     |  |      |   |      |   |      |   |      |   |      |
| 176    | 3600             | 1 07             | 11,400  | 2 75 |   |     |  |      |   |      |   |      |   |      |   |      |
| 186    | 3800             | 1 19             | 14,400  | 3 80 | 7,300   | 2 2 |  |      |   |      |   |      |   |      |   |      |
| 196    | 4000             | 1 32             | 17,000  | 4 95 | 12,600  | 3 8 |  |      |   |      |   |      |   |      |   |      |
| 206    | 4200             | 1 46             | 19,200  | 6 1  | 15,500  | 5 0 | 9,500  | 3 35 |   |      |   |      |   |      |   |      |
| 216    | 4400             | 1 60             | 21,500  | 7 5  | 18,000  | 6 4 | 13,900   | 5 1  |   |      |   |      |   |      |   |      |
| 225    | 4600             | 1 75             | 23,500  | 9 1  | 20,500  | 7 9 | 16,900   | 6 6  | 12,000  | 4 95 |   |      |   |      |   |      |
| 235    | 4800             | 1 90             | 25,500  | 11 5 | 22,700  | 9 7 | 19,600   | 8 2  | 15,600  | 6 7  | 9,150   | 4 4  |   |      |   |      |
| 245    | 5000             | 2 06             | 27,500  | 12 5 | 24,800  | 11  | 22,000   | 10 0 | 18,600  | 8 5  | 14,400  | 6 8  |   |      |   |      |
| 257    | 5250             | 2 27             |   |      |   |     | 24,700   | 12 5 | 21,900  | 11 0 | 18,500  | 9 4  |   |      |   |      |
| 269    | 5500             | 2 50             |   |      |   |     | 27,400   | 15   | 24,800  | 13 5 | 22,000  | 12 0 | 14,300  | 8 4  |   |      |
| 282    | 5750             | 2 73             |   |      |   |     | 30,000   | 18   | 27,600  | 16 5 | 25,000  | 15 0 | 18,900  | 11 5 |   |      |
| 294    | 6000             | 2 97             |   |      |   |     | 32,600   | 21   | 30,200  | 19 5 | 27,800  | 18 0 | 22,600  | 15 0 | 15,000  | 10 5 |
| 306    | 6250             | 3 22             |   |      |   |     | 34,900   | 25   | 32,900  | 23   | 30,500  | 21 5 | 25,800  | 18 5 | 19,800  | 14 5 |
| 318    | 6500             | 3 49             |   |      |   |     | 37,200   | 29   | 35,400  | 27   | 33,300  | 25   | 28,900  | 22   | 23,800  | 18 5 |
| 330    | 6750             | 3 76             |   |      |   |     |  |      | 37,800  | 31   | 35,800  | 30   | 31,600  | 26   | 27,000  | 22 5 |
| 343    | 7000             | 4 04             |   |      |   |     |  |      | 40,000  | 36   | 38,200  | 34   | 34,300  | 30   | 30,200  | 27   |
| 354    | 7250             | 4 34             |   |      |   |     |  |      |   |      | 40,600  | 39   | 37,000  | 35   | 32,100  | 31   |
| 368    | 7500             | 4 64             |   |      |   |     |  |      |   |      | 42,700  | 44   | 39,600  | 40   | 35,700  | 36   |
| 379    | 7750             | 4 96             |   |      |   |     |  |      |   |      |   |      | 42,000  | 46   | 38,400  | 42   |
| 392    | 8000             | 5 28             |   |      |   |     |  |      |   |      |   |      | 44,500  | 52   | 41,000  | 47   |
| 403    | 8250             | 5 62             |   |      |   |     |  |      |   |      |   |      | 46,700  | 58   | 43,700  | 54   |
| 417    | 8500             | 5 96             |   |      |   |     |  |      |   |      |   |      | 49,000  | 62   | 46,100  | 60   |
| 428    | 8750             | 6 32             |   |      |   |     |  |      |   |      |   |      |   |      | 48,500  | 68   |
| 441    | 9000             | 6 68             |   |      |   |     |  |      |   |      |   |      |   |      | 50,900  | 74   |

**Double Inlet 6 1/2' Steel Plate Fan—Design 2—Cont'd Single Width**  
**When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances.**

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.<br>Static Pressure 3 1/2" Water<br>2.02 oss. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure 4" Water<br>2.31 oss. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure 5" Water<br>2.89 oss. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure 6" Water<br>3.47 oss. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure 7" Water<br>4.05 oss. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure 8" Water<br>4.63 oss. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure 9" Water<br>5.2 oss. per sq. inch | H. P. |
|--------|------------------|------------------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|--|-------|
| 318    | 6500             | 3 49             | 16,900  | 14 0  |   |       |   |       |   |       |   |       |   |       |  |       |
| 330    | 6750             | 3 76             | 21,600  | 18 5  | 10,400  | 10 5  |   |       |   |       |   |       |   |       |  |       |
| 343    | 7000             | 4 01             | 25,200  | 23    | 18,900  | 18    |   |       |   |       |   |       |   |       |  |       |
| 354    | 7250             | 4 34             | 28,700  | 28    | 23,600  | 23    |   |       |   |       |   |       |   |       |  |       |
| 368    | 7500             | 4 64             | 31,800  | 32    | 27,200  | 28    |   |       |   |       |   |       |   |       |  |       |
| 379    | 7750             | 4 96             | 34,800  | 38    | 30,900  | 34    | 19,500  | 23    |   |       |   |       |   |       |  |       |
| 392    | 8000             | 5 28             | 37,600  | 43    | 33,800  | 40    | 21,500  | 30    |   |       |   |       |   |       |  |       |
| 403    | 8250             | 5 62             | 40,300  | 50    | 36,800  | 45    | 28,700  | 36    |   |       |   |       |   |       |  |       |
| 417    | 8500             | 5 96             | 43,000  | 56    | 39,500  | 52    | 32,100  | 43    | 21,700  | 30    |   |       |   |       |  |       |
| 428    | 8750             | 6 32             | 45,500  | 62    | 42,200  | 58    | 35,400  | 50    | 26,800  | 38    |   |       |   |       |  |       |
| 441    | 9000             | 6 68             | 48,100  | 72    | 44,900  | 66    | 38,600  | 56    | 30,800  | 46    | 17,700  | 30    |   |       |  |       |
| 465    | 9500             | 7 45             | 52,800  | 88    | 50,200  | 82    | 44,200  | 72    | 37,900  | 64    | 29,700  | 50    |   |       |  |       |
| 490    | 10000            | 8 25             | 57,500  | 105   | 55,000  | 100   | 49,600  | 90    | 43,900  | 80    | 37,300  | 68    | 28,800  | 51    |  |       |
| 515    | 10500            | 9 10             |   |       | 59,600  | 120   | 54,900  | 110   | 49,400  | 98    | 43,700  | 88    | 37,100  | 76    | 28,400   | 60    |
| 539    | 11000            | 9 98             |   |       |   |       | 59,900  | 130   | 51,900  | 120   | 49,600  | 110   | 43,800  | 96    | 37,300   | 84    |
| 563    | 11500            | 10 9             |   |       |   |       | 64,400  | 155   | 60,100  | 145   | 55,200  | 130   | 50,100  | 120   | 44,300   | 105   |
| 588    | 12000            | 11 9             |   |       |   |       | 68,900  | 180   | 65,100  | 170   | 60,500  | 155   | 55,800  | 145   | 51,000   | 135   |
| 613    | 12500            | 12 9             |   |       |   |       |   |       | 70,000  | 200   | 65,800  | 185   | 61,200  | 170   | 57,000   | 160   |
| 637    | 13000            | 13 9             |   |       |   |       |   |       | 74,300  | 230   | 70,600  | 215   | 66,400  | 200   | 62,300   | 190   |
| 662    | 13500            | 15 0             |   |       |   |       |   |       |   |       | 75,600  | 250   | 71,500  | 235   | 67,600   | 225   |
| 687    | 14000            | 16 2             |   |       |   |       |   |       |   |       | 80,000  | 285   | 76,400  | 270   | 72,900   | 260   |
| 710    | 14500            | 17 4             |   |       |   |       |   |       |   |       |   |       | 81,200  | 305   | 77,800   | 295   |
| 734    | 15000            | 18 6             |   |       |   |       |   |       |   |       |   |       | 85,600  | 350   | 82,600   | 335   |
| 759    | 15500            | 19 8             |   |       |   |       |   |       |   |       |   |       |   |       | 87,300   | 375   |
| 783    | 16000            | 21 1             |   |       |   |       |   |       |   |       |   |       |   |       | 92,100   | 425   |
|        |                  |                  |   |       |   |       |   |       |   |       |   |       |   |       |  |       |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 10" Water<br>5.78 oss. per sq. inch                     |       | Static Pressure 11" Water<br>6.36 oss. per sq. inch                 |       | Static Pressure 12" Water<br>6.93 oss. per sq. inch                 |       | Static Pressure 13" Water<br>7.51 oss. per sq. inch                 |       | Static Pressure 14" Water<br>8.08 oss. per sq. inch                 |       | Static Pressure 16" Water<br>9.00 oss. per sq. inch                 |       | Static Pressure 18" Water<br>10.00 oss. per sq. inch               |       |
| 539    | 11000            | 9 98             | 28,600  | 66    |   |       |   |       |   |       |   |       |   |       |  |       |
| 563    | 11500            | 10 9             | 37,300  | 94    | 29,300  | 76    |   |       |   |       |   |       |   |       |  |       |
| 588    | 12000            | 11 9             | 45,100  | 120   | 38,700  | 105   | 29,900  | 84    |   |       |   |       |   |       |  |       |
| 613    | 12500            | 12 9             | 51,800  | 145   | 46,300  | 135   | 40,700  | 120   | 31,900  | 96    |   |       |   |       |  |       |
| 637    | 13000            | 13 9             | 57,800  | 175   | 53,000  | 165   | 47,800  | 150   | 41,500  | 130   | 33,400  | 110   |   |       |  |       |
| 662    | 13500            | 15 0             | 63,300  | 205   | 59,000  | 195   | 54,000  | 180   | 49,100  | 165   | 43,900  | 150   |   |       |  |       |
| 687    | 14000            | 16 2             | 68,500  | 240   | 64,500  | 230   | 60,300  | 215   | 56,000  | 200   | 51,000  | 185   |   |       |  |       |
| 710    | 14500            | 17 4             | 74,100  | 280   | 69,900  | 260   | 66,200  | 260   | 62,100  | 240   | 58,000  | 225   |   |       |  |       |
| 734    | 15000            | 18 6             | 79,200  | 320   | 75,500  | 305   | 71,500  | 290   | 67,800  | 275   | 63,700  | 260   |   |       |  |       |
| 759    | 15500            | 19 8             | 84,000  | 365   | 80,000  | 345   | 77,000  | 330   | 73,600  | 320   | 69,500  | 300   |   |       |  |       |
| 783    | 16000            | 21 1             | 88,900  | 410   | 85,600  | 395   | 82,300  | 380   | 78,900  | 365   | 75,000  | 345   |   |       |  |       |
| 808    | 16500            | 22 5             | 93,600  | 460   | 90,500  | 445   | 87,300  | 430   | 84,000  | 410   | 80,500  | 390   |   |       |  |       |
| 832    | 17000            | 23 8             | 98,000  | 515   | 95,300  | 495   | 92,200  | 475   | 89,200  | 465   | 85,600  | 445   |   |       |  |       |
| 855    | 17500            | 25 3             |   |       | 99,800  | 550   | 97,000  | 540   | 94,000  | 515   | 91,200  | 500   |   |       |  |       |
| 880    | 18000            | 26 7             |   |       |   |       | 102,000   | 595   | 99,200  | 570   | 96,000  | 560   |   |       |  |       |
| 905    | 18500            | 28 2             |   |       |   |       | 106,000   | 655   | 104,000   | 630   | 101,000   | 615   |   |       |  |       |
| 930    | 19000            | 29 8             |   |       |   |       |   |       | 108,000   | 705   |   |       | 106,000   | 700   |  |       |
| 955    | 19500            | 31 4             |   |       |   |       |   |       |   |       |   |       | 110,000   | 760   |  |       |
| 978    | 20000            | 33               |   |       |   |       |   |       |   |       |   |       | 115,000   | 830   |  |       |



### Single Width

| R.P.M. | Tip Speed<br>F.P.M. | S.N.D.<br>in<br>inches | Volume<br>C.F.M. H. P.<br>Static Pressure<br>1/2" Water<br>.073 ozs. per<br>sq. inch | Volume<br>C.F.M. H. P.<br>Static Pressure<br>1/4" Water<br>.145 ozs. per<br>sq. inch | Volume<br>C.F.M. H. P.<br>Static Pressure<br>3/8" Water<br>.217 ozs. per<br>sq. inch | Volume<br>C.F.M. H. P.<br>Static Pressure<br>1/2" Water<br>.289 ozs. per<br>sq. inch | Volume<br>C.F.M. H. P.<br>Static Pressure<br>3/4" Water<br>.361 ozs. per<br>sq. inch | Volume<br>C.F.M. H. P.<br>Static Pressure<br>1" Water<br>.434 ozs. per<br>sq. inch | Volume<br>C.F.M. H. P.<br>Static Pressure<br>1 1/2" Water<br>.505 ozs. per<br>sq. inch | H. P. |
|--------|---------------------|------------------------|--|--|--|--|--|--|--|-------|
| 64     | 1400                | 0 162                  | 6 770  | 0 245  |  |  |  |  |  |       |
| 73     | 1600                | 0 211                  | 9 360  | 0 43   |  |  |  |  |  |       |
| 82     | 1800                | 0 267                  | 11 700   | 0 69   | 6 550  | 0 40   |  |  |  |       |
| 91     | 2000                | 0 330                  |  |  | 9 860  | 0 71   |  |  |  |       |
| 100    | 2200                | 0 400                  |  |  | 12 500   | 1 10   | 8 030  | 0 73   |  |       |
| 109    | 2400                | 0 475                  |  |  | 14 800   | 1 55   | 11 300   | 1 20   | 5 230  | 0 63  |
| 118    | 2600                | 0 558                  |  |  | 17 100   | 2 1  | 14 000   | 1 70   | 10 400   | 1 30  |
| 127    | 2800                | 0 647                  |  |  |  |  | 16 600   | 2 35   | 13 500   | 1 95  |
| 136    | 3000                | 0 743                  |  |  |  |  | 18 900   | 3 1  | 16 200   | 2 65  |
| 145    | 3200                | 0 825                  |  |  |  |  | 20 900   | 3 8  | 18 700   | 3 35  |
| 155    | 3400                | 0 953                  |  |  |  |  |  |  | 21 100   | 4 4   |
| 164    | 3600                | 1 07                   |  |  |  |  |  |  | 23 400   | 5 5   |
| 173    | 3800                | 1 19                   |  |  |  |  |  |  | 25 400   | 6 6   |
| 182    | 4000                | 1 32                   |  |  |  |  |  |  |  |       |
| 191    | 4200                | 1 46                   |  |  |  |  |  |  |  |       |
| 200    | 4400                | 1 60                   |  |  |  |  |  |  |  |       |
| 209    | 4600                | 1 75                   |  |  |  |  |  |  |  |       |
| 218    | 4800                | 1 90                   |  |  |  |  |  |  |  |       |
| 227    | 5000                | 2 06                   |  |  |  |  |  |  |  |       |

### Single Width

**When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances**

| R.P.M. | Tip Speed<br>F.P.M. | S.N.D.<br>In<br>Inches | Volume<br>C.F.M.<br>Static Pressure<br>3½" Water<br>2.02 ozs. per<br>sq. inch | H. P. | Volume<br>C.F.M.<br>Static Pressure<br>4" Water<br>2.31 ozs. per<br>sq. inch | H. P. | Volume<br>C.F.M.<br>Static Pressure<br>5" Water<br>2.89 ozs. per<br>sq. inch | H. P. | Volume<br>C.F.M.<br>Static Pressure<br>6" Water<br>3.47 ozs. per<br>sq. inch | P. H. | Volume<br>C.F.M.<br>Static Pressure<br>7" Water<br>4.05 ozs. per<br>sq. inch | P. H. | Volume<br>C.F.M.<br>Static Pressure<br>8" Water<br>4.63 ozs. per<br>sq. inch | H. P. | Volume<br>C.F.M.<br>Static Pressure<br>9" Water<br>5.2 ozs. per<br>sq. inch | H. P. |
|--------|---------------------|------------------------|---|-------|--|-------|--|-------|--|-------|--|-------|--|-------|---|-------|
| 296    | 6500                | 3 49                   | 19,600  | 16    |  |       |  |       |  |       |  |       |  |       |   |       |
| 307    | 6756                | 3 76                   | 25,100  | 21    | 12,100   | 12 5  |  |       |  |       |  |       |  |       |   |       |
| 318    | 7000                | 4 04                   | 29,300  | 27    | 22,000   | 21    |  |       |  |       |  |       |  |       |   |       |
| 330    | 7250                | 4 34                   | 33,400  | 32    | 27,400   | 27    |  |       |  |       |  |       |  |       |   |       |
| 341    | 7500                | 4 61                   | 37,000  | 38    | 31,700   | 33    |  |       |  |       |  |       |  |       |   |       |
| 352    | 7750                | 4 96                   | 40,500  | 44    | 35,900   | 40    | 22,700   | 27    |  |       |  |       |  |       |   |       |
| 364    | 8000                | 5 28                   | 43,700  | 50    | 39,300   | 46    | 28,500   | 34    |  |       |  |       |  |       |   |       |
| 375    | 8250                | 5 62                   | 46,900  | 58    | 42,800   | 52    | 33,400   | 42    |  |       |  |       |  |       |   |       |
| 386    | 8500                | 5 96                   | 50,000  | 66    | 45,900   | 60    | 37,400   | 50    | 25,200   | 35    |  |       |  |       |   |       |
| 397    | 8750                | 6 32                   | 52,900  | 72    | 49,100   | 68    | 41,200   | 58    | 31,200   | 45    |  |       |  |       |   |       |
| 409    | 9000                | 6 68                   | 56,000  | 82    | 52,100   | 76    | 44,900   | 66    | 35,800   | 54    | 20,600   | 35    |  |       |   |       |
| 432    | 9500                | 7 45                   | 61,400  | 100   | 58,400   | 96    | 51,400   | 84    | 41,100   | 71    | 34,500   | 58    |  |       |   |       |
| 455    | 10000               | 8 25                   | 66,800  | 120   | 64,000   | 115   | 57,600   | 105   | 51,000   | 92    | 43,400   | 80    | 33,500   | 61    |   |       |
| 478    | 10500               | 9 10                   |   |       | 69,300   | 140   | 63,800   | 125   | 57,500   | 115   | 50,800   | 100   | 43,100   | 88    | 33,000  | 70    |
| 500    | 11000               | 9 98                   |   |       |  |       | 69,500   | 150   | 63,800   | 140   | 57,700   | 125   | 51,000   | 115   | 43,400  | 98    |
| 523    | 11500               | 10 9                   |   |       |  |       | 71,900   | 180   | 69,800   | 165   | 61,200   | 155   | 58,200   | 140   | 51,500  | 125   |
| 547    | 12000               | 11 9                   |   |       |  |       | 80,100   | 210   | 75,600   | 200   | 70,400   | 180   | 64,800   | 170   | 59,300  | 155   |
| 568    | 12500               | 12 9                   |   |       |  |       |  |       | 81,400   | 230   | 76,500   | 215   | 71,200   | 200   | 66,100  | 190   |
| 592    | 13000               | 13 9                   |   |       |  |       |  |       | 86,400   | 265   | 82,100   | 250   | 77,200   | 235   | 72,400  | 220   |
| 615    | 13500               | 15 0                   |   |       |  |       |  |       |  |       | 87,800   | 290   | 83,100   | 275   | 78,500  | 260   |
| 537    | 14000               | 16 2                   |   |       |  |       |  |       |  |       | 93,000   | 330   | 88,700   | 315   | 81,600  | 300   |
| 658    | 14500               | 17 4                   |   |       |  |       |  |       |  |       |  |       | 94,500   | 360   | 90,400  | 345   |
| 680    | 15000               | 18 6                   |   |       |  |       |  |       |  |       |  |       | 99,500   | 405   | 96,100  | 390   |
| 703    | 15500               | 19 8                   |   |       |  |       |  |       |  |       |  |       |  |       | 101,000   | 440   |
| 725    | 16000               | 21 1                   |   |       |  |       |  |       |  |       |  |       |  |       | 107,000   | 495   |

| R.P.M. | Tip Speed<br>F.P.M. | S.N.D.<br>In<br>Inches | Static Pressure<br>10" Water<br>5.78 ozs. per<br>sq. inch | Static Pressure<br>11" Water<br>6.36 ozs. per<br>sq. inch | Static Pressure<br>12" Water<br>6.93 ozs. per<br>sq. inch | Static Pressure<br>13" Water<br>7.51 ozs. per<br>sq. inch | Static Pressure<br>14" Water<br>8.08 ozs. per<br>sq. inch | Static Pressure<br>16" Water<br>9.00 ozs. per<br>sq. inch | Static Pressure<br>18" Water<br>10.00 ozs. per<br>sq. inch |
|--------|---------------------|------------------------|---|---|---|---|---|---|--|
| 500    | 11000               | 9.98                   | 33,200  | 78  |   |   |   |   |  |
| 523    | 11500               | 10 9                   | 44,000  | 110   | 34,000  | 88  |   |   |  |
| 547    | 12000               | 11 9                   | 52,500  | 140   | 45,000  | 120   | 34,800  | 98  |  |
| 568    | 12500               | 12 9                   | 60,200  | 170   | 53,800  | 155   | 47,300  | 140   |  |
| 592    | 13000               | 13 9                   | 67,200  | 205   | 61,500  | 190   | 55,500  | 175   | 48,200   |
| 615    | 13500               | 15 0                   | 73,300  | 240   | 68,500  | 225   | 62,800  | 210   | 57,100   |
| 637    | 14000               | 16 2                   | 79,600  | 280   | 75,000  | 265   | 70,100  | 250   | 65,100   |
| 658    | 14500               | 17 4                   | 86,200  | 330   | 81,200  | 305   | 77,000  | 290   | 72,200   |
| 680    | 15000               | 18 6                   | 92,100  | 375   | 87,800  | 355   | 83,000  | 335   | 78,900   |
| 703    | 15500               | 19 8                   | 97,700  | 420   | 93,700  | 405   | 89,500  | 385   | 85,600   |
| 725    | 16000               | 21 1                   | 103,000   | 480   | 99,500  | 460   | 95,500  | 440   | 91,800   |
| 750    | 16500               | 22 5                   | 109,000   | 535   | 105,000   | 515   | 101,000   | 500   | 97,700   |
| 772    | 17000               | 23 8                   | 114,000   | 600   | 111,000   | 575   | 107,000   | 555   | 104,000  |
| 795    | 17500               | 25 3                   |   |   | 116,000   | 640   | 113,000   | 625   | 109,000  |
| 818    | 18000               | 26 7                   |   |   |   |   | 118,000   | 690   | 115,000  |
| 840    | 18500               | 28 2                   |   |   |   |   | 124,000   | 765   | 121,000  |
| 863    | 19000               | 29 8                   |   |   |   |   |   |   | 126,000  |
| 885    | 19500               | 31 4                   |   |   |   |   |   |   | 129,000  |
| 908    | 20000               | 33                     |   |   |   |   |   |   | 134,000  |

| Double Inlet   |                  |                  | 7½' Steel Plate Fan—Design 2                    |  |   |   |  |   |  |       |   |       | Single Width                                     |       |   |       |
|--|------------------|------------------|---|--|---|---|--|---|--|-------|---|-------|--|-------|---|-------|
| When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances |                  |                  |   |  |   |   |  |   |  |       |   |       |  |       |   |       |
| R.P.M.   | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.                                   | H. P.  | Volume C.F.M.                                   | H. P.   | Volume C.F.M.                                    | H. P.   | Volume C.F.M.                                    | H. P. | Volume C.F.M.                                   | H. P. | Volume C.F.M.                                    | H. P. | Volume C.F.M.                                   | H. P. |
|  |                  |                  | Static Pressure ½" Water .073 oza. per sq. inch |  | Static Pressure ¾" Water .145 oza. per sq. inch |   | Static Pressure 1" Water .217 oza. per sq. inch  |   | Static Pressure 1½" Water .289 oza. per sq. inch |       | Static Pressure 2" Water .361 oza. per sq. inch |       | Static Pressure 2½" Water .434 oza. per sq. inch |       | Static Pressure 3" Water .505 oza. per sq. inch |       |
| 50   | 1100             | 0 162            | 7,800   | 0 280  |   |   |  |   |  |       |   |       |  |       |   |       |
| 68   | 1600             | 0 211            | 10,800  | 0 405  |   |   |  |   |  |       |   |       |  |       |   |       |
| 77   | 1800             | 0 267            | 13,500  | 0 79   | 7,550   | 0 46  |  |   |  |       |   |       |  |       |   |       |
| 85   | 2000             | 0 330            |   |  | 11,300  | 0 85  |  |   |  |       |   |       |  |       |   |       |
| 94   | 2200             | 0 400            |   |  | 14,100  | 1 25  | 9,240  | 0 84  |  |       |   |       |  |       |   |       |
| 102  | 2400             | 0 475            |   |  | 17,100  | 1 75  | 13,100   | 1 35  | 6,010  | 0 73  |   |       |  |       |   |       |
| 111  | 2600             | 0 558            |   |  | 19,700  | 2 4   | 16,100   | 1 95  | 12,000   | 1 50  |   |       |  |       |   |       |
| 119  | 2800             | 0 617            |   |  |   |   | 19,100   | 2 70  | 15,500   | 2 20  | 11,100  | 1 65  |  |       |   |       |
| 127  | 3000             | 0 713            |   |  |   |   | 21,800   | 3 55  | 18,600   | 3 05  | 15,200  | 2 55  | 10,100   | 1 80  |   |       |
| 136  | 3200             | 0 825            |   |  |   |   | 24,000   | 4 4   | 21,600   | 3 85  | 18,200  | 3 40  | 14,300   | 2 70  | 7,500   | 1 6   |
| 144  | 3400             | 0 953            |   |  |   |   |  |   | 24,300   | 5 1   | 21,500  | 4 45  | 18,600   | 3 95  | 14,900  | 3 2   |
| 153  | 3600             | 1 07             |   |  |   |   |  |   | 26,900   | 6 3   | 24,300  | 5 7   | 21,700   | 5 1   | 18,900  | 4 5   |
| 161  | 3800             | 1 19             |   |  |   |   |  |   | 29,300   | 7 6   | 27,100  | 7 1   | 24,700   | 6 4   | 22,000  | 5 8   |
| 170  | 4000             | 1 32             |   |  |   |   |  |   |  |       | 29,800  | 8 7   | 27,700   | 8 0   | 25,200  | 7 3   |
| 178  | 4200             | 1 46             |   |  |   |   |  |   |  |       | 32,200  | 10    | 30,200   | 9 7   | 27,900  | 8 9   |
| 187  | 4400             | 1 60             |   |  |   |   |  |   |  |       |   |       | 32,800   | 11 5  | 30,800  | 11    |
| 195  | 4600             | 1 75             |   |  |   |   |  |   |  |       |   |       | 35,300   | 13 5  | 33,500  | 13    |
| 204  | 4800             | 1 90             |   |  |   |   |  |   |  |       |   |       |  |       | 36,000  | 15    |
| 212  | 5000             | 2 06             |   |  |   |   |  |   |  |       |   |       |  |       | 38,400  | 17    |
|  |                  |                  |   |  |   |   |  |   |  |       |   |       |  |       |   |       |
| R.P.M.   | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 oza. per sq. inch | Static Pressure 1½" Water .723 oza. per sq. inch | Static Pressure 1¾" Water .87 oza. per sq. inch | Static Pressure 2" Water 1.01 oza. per sq. inch | Static Pressure 2½" Water 1.16 oza. per sq. inch | Static Pressure 3" Water 1.45 oza. per sq. inch | Static Pressure 3½" Water 1.73 oza. per sq. inch |       |   |       |  |       |   |       |
| 144  | 3400             | 0 953            | 9,060   | 2 15   |   |   |  |   |  |       |   |       |  |       |   |       |
| 153  | 3600             | 1 07             | 15,200  | 3 7  |   |   |  |   |  |       |   |       |  |       |   |       |
| 161  | 3800             | 1 19             | 19,200  | 5 1  | 9,750   | 2 9   |  |   |  |       |   |       |  |       |   |       |
| 170  | 4000             | 1 32             | 22,700  | 6 6  | 16,800  | 5 1   |  |   |  |       |   |       |  |       |   |       |
| 178  | 4200             | 1 46             | 25,700  | 8 2  | 20,700  | 6 7   | 12,700   | 4 5   |  |       |   |       |  |       |   |       |
| 187  | 4400             | 1 60             | 28,700  | 10 0   | 24,100  | 8 5   | 18,600   | 6 8   |  |       |   |       |  |       |   |       |
| 195  | 4600             | 1 75             | 31,500  | 12 0   | 27,400  | 10 5  | 22,600   | 8 9   | 16,000   | 6 6   |   |       |  |       |   |       |
| 204  | 4800             | 1 90             | 34,100  | 14 5   | 30,400  | 13  | 26,200   | 11 0  | 20,800   | 9 0   | 12,200  | 5 9   |  |       |   |       |
| 212  | 5000             | 2 06             | 36,800  | 17   | 33,200  | 15  | 29,400   | 13 5  | 24,800   | 11 5  | 19,300  | 9 2   |  |       |   |       |
| 223  | 5250             | 2 27             |   |  |   |   | 33,100   | 16 5  | 29,200   | 14 5  | 24,700  | 12 5  |  |       |   |       |
| 233  | 5500             | 2 50             |   |  |   |   | 36,700   | 20  | 33,200   | 18 5  | 29,400  | 16 5  | 19,100   | 11 0  |   |       |
| 244  | 5750             | 2 73             |   |  |   |   | 40,200   | 24  | 36,900   | 22    | 33,500  | 20    | 25,300   | 15 5  |   |       |
| 255  | 6000             | 2 97             |   |  |   |   | 43,500   | 28  | 40,400   | 26    | 37,200  | 24    | 30,300   | 20    | 20,000  | 14 0  |
| 265  | 6250             | 3 22             |   |  |   |   | 46,800   | 33  | 44,100   | 31    | 40,800  | 29    | 34,500   | 25    | 26,400  | 19 5  |
| 276  | 6500             | 3 49             |   |  |   |   | 49,800   | 38  | 47,300   | 36    | 44,500  | 34    | 38,600   | 30    | 31,900  | 25    |
| 287  | 6750             | 3 76             |   |  |   |   |  |   | 50,500   | 42    | 47,900  | 39    | 42,200   | 35    | 36,200  | 30    |
| 297  | 7000             | 4 04             |   |  |   |   |  |   | 53,500   | 48    | 51,000  | 45    | 45,800   | 40    | 40,400  | 36    |
| 307  | 7250             | 4 34             |   |  |   |   |  |   |  |       | 54,300  | 52    | 49,500   | 47    | 43,000  | 42    |
| 318  | 7500             | 4 64             |   |  |   |   |  |   |  |       | 57,100  | 58    | 53,000   | 54    | 47,800  | 48    |
| 328  | 7750             | 4 96             |   |  |   |   |  |   |  |       |   |       | 56,300   | 62    | 51,400  | 56    |
| 340  | 8000             | 5 28             |   |  |   |   |  |   |  |       |   |       | 59,500   | 68    | 54,900  | 64    |
| 350  | 8250             | 5 62             |   |  |   |   |  |   |  |       |   |       | 62,500   | 76    | 58,500  | 72    |
| 361  | 8500             | 5 96             |   |  |   |   |  |   |  |       |   |       | 65,500   | 84    | 61,600  | 80    |
| 371  | 8750             | 6 32             |   |  |   |   |  |   |  |       |   |       |  |       | 65,000  | 90    |
| 382  | 9000             | 6 68             |   |  |   |   |  |   |  |       |   |       |  |       | 68,000  | 100   |

**Double Inlet 7½' Steel Plate Fan—Design 2—Cont'd Single Width**  
**When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances**

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.<br>Static Pressure 3½" Water<br>2.02 ozs. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure 4" Water<br>2.31 ozs. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure 5" Water<br>2.89 ozs. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure 6" Water<br>3.47 ozs. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure 7" Water<br>4.05 ozs. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure 8" Water<br>4.63 ozs. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure 9" Water<br>5.2 ozs. per sq. inch | H. P. |
|--------|------------------|------------------|--|-------|---|-------|---|-------|---|-------|---|-------|---|-------|--|-------|
| 276    | 6500             | 3.49             | 22,300   | 18.5  |   |       |   |       |   |       |   |       |   |       |  |       |
| 287    | 6750             | 3.76             | 28,900   | 25    | 13,900  | 14.5  |   |       |   |       |   |       |   |       |  |       |
| 297    | 7000             | 4.04             | 33,700   | 30    | 25,300  | 24    |   |       |   |       |   |       |   |       |  |       |
| 307    | 7250             | 4.31             | 38,400   | 37    | 31,500  | 31    |   |       |   |       |   |       |   |       |  |       |
| 318    | 7500             | 4.64             | 42,500   | 43    | 36,500  | 38    |   |       |   |       |   |       |   |       |  |       |
| 328    | 7750             | 4.96             | 46,500   | 50    | 41,300  | 46    | 26,100  | 31    |   |       |   |       |   |       |  |       |
| 340    | 8000             | 5.28             | 50,200   | 58    | 45,300  | 52    | 32,800  | 39    |   |       |   |       |   |       |  |       |
| 350    | 8250             | 5.62             | 53,900   | 66    | 49,200  | 60    | 38,400  | 48    |   |       |   |       |   |       |  |       |
| 361    | 8500             | 5.96             | 57,500   | 76    | 52,900  | 70    | 43,000  | 58    | 29,000  | 41    |   |       |   |       |  |       |
| 371    | 8750             | 6.32             | 60,900   | 84    | 56,500  | 78    | 47,400  | 66    | 35,900  | 52    |   |       |   |       |  |       |
| 382    | 9000             | 6.68             | 64,300   | 96    | 60,000  | 86    | 51,600  | 76    | 41,200  | 62    | 23,700  | 41    |   |       |  |       |
| 403    | 9500             | 7.45             | 70,600   | 115   | 67,100  | 110   | 59,100  | 96    | 50,700  | 84    | 39,700  | 66    |   |       |  |       |
| 425    | 10000            | 8.25             | 76,900   | 140   | 73,600  | 135   | 66,400  | 120   | 58,700  | 105   | 49,800  | 92    | 38,500  | 74    |  |       |
| 447    | 10500            | 9.10             |  |       | 79,700  | 160   | 73,500  | 145   | 66,100  | 130   | 58,500  | 115   | 49,600  | 100   | 38,000   | 80    |
| 468    | 11000            | 9.98             |  |       |   |       | 80,000  | 175   | 73,400  | 160   | 66,400  | 145   | 58,700  | 130   | 49,900   | 110   |
| 488    | 11500            | 10.9             |  |       |   |       | 86,100  | 205   | 80,500  | 190   | 73,800  | 175   | 67,000  | 160   | 59,300   | 145   |
| 510    | 12000            | 11.9             |  |       |   |       | 92,200  | 240   | 87,000  | 225   | 80,900  | 210   | 74,500  | 195   | 68,200   | 180   |
| 531    | 12500            | 12.9             |  |       |   |       |   |       | 93,700  | 265   | 88,000  | 250   | 81,900  | 230   | 76,100   | 215   |
| 552    | 13000            | 13.9             |  |       |   |       |   |       | 99,500  | 305   | 94,500  | 290   | 88,800  | 270   | 83,300   | 255   |
| 574    | 13500            | 15.0             |  |       |   |       |   |       |   |       | 101,000   | 335   | 95,600  | 315   | 90,500   | 300   |
| 595    | 14000            | 16.2             |  |       |   |       |   |       |   |       | 107,000   | 380   | 102,000   | 360   | 97,500   | 345   |
| 615    | 14500            | 17.4             |  |       |   |       |   |       |   |       |   |       | 109,000   | 410   | 104,000  | 395   |
| 635    | 15000            | 18.6             |  |       |   |       |   |       |   |       |   |       | 115,000   | 465   | 111,000  | 450   |
| 657    | 15500            | 19.8             |  |       |   |       |   |       |   |       |   |       |   |       | 117,000  | 505   |
| 678    | 16000            | 21.1             |  |       |   |       |   |       |   |       |   |       |   |       | 123,000  | 570   |
|        |                  |                  |  |       |   |       |   |       |   |       |   |       |   |       |  |       |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 10" Water<br>5.78 ozs. per sq. inch                  |       | Static Pressure 11" Water<br>6.36 ozs. per sq. inch                 |       | Static Pressure 12" Water<br>6.93 ozs. per sq. inch                 |       | Static Pressure 13" Water<br>7.51 ozs. per sq. inch                 |       | Static Pressure 14" Water<br>8.06 ozs. per sq. inch                 |       | Static Pressure 15" Water<br>8.60 ozs. per sq. inch                 |       | Static Pressure 16" Water<br>9.14 ozs. per sq. inch                |       |
| 468    | 11000            | 9.98             | 38,200   | 90    |   |       |   |       |   |       |   |       |   |       |  |       |
| 488    | 11500            | 10.9             | 50,600   | 125   | 39,200  | 100   |   |       |   |       |   |       |   |       |  |       |
| 510    | 12000            | 11.9             | 60,400   | 160   | 51,800  | 140   | 40,000  | 110   |   |       |   |       |   |       |  |       |
| 531    | 12500            | 12.9             | 69,200   | 195   | 61,900  | 180   | 54,400  | 160   | 42,500  | 130   |   |       |   |       |  |       |
| 552    | 13000            | 13.9             | 77,200   | 235   | 70,700  | 220   | 63,900  | 200   | 55,500  | 175   | 44,600  | 145   |   |       |  |       |
| 574    | 13500            | 15.0             | 84,300   | 275   | 78,900  | 260   | 72,300  | 240   | 65,600  | 220   | 58,600  | 200   |   |       |  |       |
| 595    | 14000            | 16.2             | 91,600   | 320   | 86,300  | 305   | 80,600  | 285   | 74,900  | 270   | 68,200  | 245   |   |       |  |       |
| 615    | 14500            | 17.4             | 99,100   | 375   | 93,400  | 350   | 88,500  | 335   | 83,000  | 320   | 77,500  | 300   |   |       |  |       |
| 635    | 15000            | 18.6             | 106,000  | 430   | 101,000   | 410   | 95,500  | 390   | 90,800  | 370   | 85,000  | 345   |   |       |  |       |
| 657    | 15500            | 19.8             | 112,000  | 485   | 108,000   | 465   | 103,000   | 445   | 98,400  | 425   | 93,000  | 405   |   |       |  |       |
| 678    | 16000            | 21.1             | 119,000  | 550   | 115,000   | 530   | 110,000   | 510   | 106,000   | 485   | 100,000   | 460   |   |       |  |       |
| 700    | 16500            | 22.5             | 125,000  | 615   | 121,000   | 595   | 117,000   | 575   | 112,000   | 550   | 108,000   | 525   |   |       |  |       |
| 720    | 17000            | 23.8             | 131,000  | 690   | 127,000   | 660   | 123,000   | 640   | 119,000   | 620   | 115,000   | 595   |   |       |  |       |
| 742    | 17500            | 25.3             |  |       | 133,000   | 735   | 130,000   | 720   | 126,000   | 690   | 122,000   | 670   |   |       |  |       |
| 763    | 18000            | 26.7             |  |       |   |       | 136,000   | 795   | 133,000   | 765   | 128,000   | 750   |   |       |  |       |
| 784    | 18500            | 28.2             |  |       |   |       | 143,000   | 875   | 139,000   | 845   | 135,000   | 825   |   |       |  |       |
| 805    | 19000            | 29.8             |  |       |   |       |   |       | 145,000   | 945   | 141,000   | 935   |   |       |  |       |
| 825    | 19500            | 31.4             |  |       |   |       |   |       |   |       | 148,000   | 1020  |   |       |  |       |
| 847    | 20000            | 33               |  |       |   |       |   |       |   |       | 154,000   | 1110  |   |       |  |       |

### Single Width

**When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances**

[illegible]

### Single Width

**When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances**

| R.P.M. | Tip Speed<br>F.P.M. | S.N.D.<br>Inches | Volume<br>C.F.M.   | H. P.  | Volume<br>C.F.M.   | H. P.  | Volume<br>C.F.M.   | H. P.  | Volume<br>C.F.M.  | H. P. | Volume<br>C.F.M. | H. P. | Volume<br>C.F.M. | H. P. | Volume<br>C.F.M. | H. P. | Volume<br>C.F.M. | H. P. |
|--------|---------------------|------------------|--|--|--|--|--|--|---|-------|------------------|-------|------------------|-------|------------------|-------|------------------|-------|
|        |                     |                  | Static Pressure<br>3 1/2" Water<br>2.02 ozs. per<br>sq. inch | Static Pressure<br>4" Water<br>2.31 ozs. per<br>sq. inch | Static Pressure<br>5" Water<br>2.89 ozs. per<br>sq. inch | Static Pressure<br>6" Water<br>3.47 ozs. per<br>sq. inch | Static Pressure<br>7" Water<br>4.05 ozs. per<br>sq. inch | Static Pressure<br>8" Water<br>4.63 ozs. per<br>sq. inch | Static Pressure<br>9" Water<br>5.2 ozs. per<br>sq. inch |       |                  |       |                  |       |                  |       |                  |       |
| 258    | 6500                | 3 19             | 25,700   | 21   |  |  |  |  |   |       |                  |       |                  |       |                  |       |                  |       |
| 268    | 6750                | 3 76             | 33,000   | 28   | 15,900   | 16 5   |  |  |   |       |                  |       |                  |       |                  |       |                  |       |
| 278    | 7000                | 4 04             | 38,400   | 35   | 28,900   | 27   |  |  |   |       |                  |       |                  |       |                  |       |                  |       |
| 288    | 7250                | 4 34             | 43,800   | 42   | 35,900   | 35   |  |  |   |       |                  |       |                  |       |                  |       |                  |       |
| 298    | 7500                | 4 64             | 48,500   | 50   | 41,600   | 43   |  |  |   |       |                  |       |                  |       |                  |       |                  |       |
| 308    | 7750                | 4 96             | 53,000   | 58   | 47,100   | 52   | 29,800   | 35   |   |       |                  |       |                  |       |                  |       |                  |       |
| 318    | 8000                | 5 28             | 57,300   | 66   | 51,600   | 60   | 37,400   | 45   |   |       |                  |       |                  |       |                  |       |                  |       |
| 328    | 8250                | 5 62             | 61,500   | 76   | 56,100   | 70   | 43,800   | 54   |   |       |                  |       |                  |       |                  |       |                  |       |
| 338    | 8500                | 5 96             | 65,500   | 86   | 60,300   | 78   | 49,000   | 66   | 33,100  | 46    |                  |       |                  |       |                  |       |                  |       |
| 348    | 8750                | 6 32             | 69,400   | 96   | 64,400   | 88   | 54,100   | 76   | 40,900  | 58    |                  |       |                  |       |                  |       |                  |       |
| 358    | 9000                | 6 68             | 73,300   | 110  | 68,500   | 100  | 58,900   | 86   | 47,000  | 70    | 27,000           | 46    |                  |       |                  |       |                  |       |
| 378    | 9500                | 7 45             | 80,500   | 135  | 76,600   | 125  | 67,500   | 110  | 57,800  | 96    | 45,300           | 76    |                  |       |                  |       |                  |       |
| 398    | 10000               | 8 25             | 87,600   | 160  | 84,000   | 150  | 75,700   | 135  | 67,000  | 120   | 56,900           | 105   | 43,900           | 84    |                  |       |                  |       |
| 418    | 10500               | 9 10             |  |  | 91,000   | 180  | 83,700   | 165  | 75,300  | 150   | 66,000           | 135   | 56,500           | 115   | 43,300           | 92    |                  |       |
| 438    | 11000               | 9 98             |  |  |  |  | 91,300   | 200  | 83,600  | 180   | 75,700           | 165   | 66,300           | 150   | 56,800           | 130   |                  |       |
| 458    | 11500               | 10 9             |  |  |  |  | 98,300   | 235  | 91,700  | 220   | 84,200           | 200   | 76,400           | 185   | 67,500           | 165   |                  |       |
| 498    | 12000               | 11 9             |  |  |  |  |  |  | 105,000   | 275   | 99,200           | 260   | 92,300           | 240   | 85,000           | 220   | 77,600           | 205   |
| 518    | 12500               | 12 9             |  |  |  |  |  |  |   |       | 107,000          | 300   | 100,000          | 285   | 93,400           | 260   | 86,800           | 245   |
| 538    | 13000               | 13 9             |  |  |  |  |  |  |   |       | 113,000          | 350   | 108,000          | 330   | 101,000          | 310   | 95,000           | 290   |
| 558    | 13500               | 15 0             |  |  |  |  |  |  |   |       |                  |       | 115,000          | 380   | 109,000          | 360   | 103,000          | 340   |
| 575    | 14000               | 16 2             |  |  |  |  |  |  |   |       | 122,000          | 435   |                  |       | 116,000          | 410   | 111,000          | 390   |
| 595    | 14500               | 17 4             |  |  |  |  |  |  |   |       |                  |       |                  |       | 124,000          | 470   | 119,000          | 450   |
| 615    | 15000               | 18 6             |  |  |  |  |  |  |   |       |                  |       |                  |       | 131,000          | 530   | 126,000          | 515   |
| 635    | 15500               | 19 8             |  |  |  |  |  |  |   |       |                  |       |                  |       |                  |       | 133,000          | 575   |
| 655    | 16000               | 21 1             |  |  |  |  |  |  |   |       |                  |       |                  |       |                  |       | 140,000          | 650   |

| R.P.M. | Tip Speed<br>F.P.M. | S.N.D.<br>Inches | Static Pressure<br>10" Water<br>5.78 ozs. per<br>sq. inch | Static Pressure<br>11" Water<br>6.36 ozs. per<br>sq. inch | Static Pressure<br>12" Water<br>6.93 ozs. per<br>sq. inch | Static Pressure<br>13" Water<br>7.51 ozs. per<br>sq. inch | Static Pressure<br>14" Water<br>8.08 ozs. per<br>sq. inch | Static Pressure<br>15" Water<br>8.66 ozs. per<br>sq. inch | Static Pressure<br>16" Water<br>9.24 ozs. per<br>sq. inch | Static Pressure<br>17" Water<br>9.82 ozs. per<br>sq. inch | Static Pressure<br>18" Water<br>10.40 ozs. per<br>sq. inch | Static Pressure<br>19" Water<br>10.98 ozs. per<br>sq. inch | Static Pressure<br>20" Water<br>11.56 ozs. per<br>sq. inch | Static Pressure<br>21" Water<br>12.14 ozs. per<br>sq. inch |
|--------|---------------------|------------------|---|---|---|---|---|---|---|---|--|--|--|--|
|--------|---------------------|------------------|---|---|---|---|---|---|---|---|--|--|--|--|

Double Inlet

**8 1/2' Steel Plate Fan—Design 2**

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| When Discharging Air at 65° F. and Density .075 lbs. per cubic foot Against Constant Velocity |                  |                  |  |  |  |  |  |  |  |   |   |       |   |       |   |       |
|---|------------------|------------------|--|--|--|--|--|--|--|---|---|-------|---|-------|---|-------|
| R.P.M.  | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.<br>Static Pressure ¼" Water .073 oza. per sq. inch | H. P.  | Volume C.F.M.<br>Static Pressure ½" Water .145 oza. per sq. inch | H. P.  | Volume C.F.M.<br>Static Pressure ¾" Water .217 oza. per sq. inch | H. P.  | Volume C.F.M.<br>Static Pressure 1" Water .289 oza. per sq. inch | H. P.   | Volume C.F.M.<br>Static Pressure 1¼" Water .361 oza. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure 1½" Water .434 oza. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure 1¾" Water .505 oza. per sq. inch | H. P. |
| 52  | 1400             | 0 162            | 9,900  | 0 36   |  |  |  |  |  |   |   |       |   |       |   |       |
| 60  | 1600             | 0 211            | 13,800   | 0 63   |  |  |  |  |  |   |   |       |   |       |   |       |
| 68  | 1800             | 0 267            | 17,200   | 1  | 9,660  | 0 59   |  |  |  |   |   |       |   |       |   |       |
| 75  | 2000             | 0 330            |  |  | 14,500   | 1 10   |  |  |  |   |   |       |   |       |   |       |
| 82  | 2200             | 0 400            |  |  | 18,400   | 1 60   | 11,800   | 1 05   |  |   |   |       |   |       |   |       |
| 90  | 2400             | 0 475            |  |  | 21,900   | 2 25   | 16,700   | 1 75   | 7,700  | 0 93  |   |       |   |       |   |       |
| 97  | 2600             | 0 558            |  |  | 25,200   | 3 1  | 20,600   | 2 50   | 15,300   | 1 90  |   |       |   |       |   |       |
| 105   | 2800             | 0 647            |  |  |  |  | 24,400   | 3 45   | 19,900   | 2 85  | 14,200  | 2 10  |   |       |   |       |
| 112   | 3000             | 0 743            |  |  |  |  | 27,900   | 4 55   | 23,800   | 3 90  | 19,500  | 3 25  | 12,900  | 2 3   |   |       |
| 120   | 3200             | 0 825            |  |  |  |  | 30,800   | 5 6  | 27,600   | 4 95  | 23,200  | 4 2   | 18,400  | 3 4   | 9,600   | 2 05  |
| 127   | 3400             | 0 953            |  |  |  |  |  |  | 31,100   | 6 5   | 27,500  | 5 7   | 23,800  | 5 0   | 19,100  | 4 1   |
| 135   | 3600             | 1 07             |  |  |  |  |  |  | 34,500   | 8 1   | 31,100  | 7 3   | 27,800  | 6 5   | 24,200  | 5 8   |
| 142   | 3800             | 1 19             |  |  |  |  |  |  | 37,500   | 9 8   | 34,600  | 9 1   | 31,600  | 8 2   | 28,200  | 7 4   |
| 150   | 4000             | 1 32             |  |  |  |  |  |  |  |   | 38,200  | 11    | 35,400  | 10 0  | 32,300  | 9 3   |
| 157   | 4200             | 1 46             |  |  |  |  |  |  |  |   | 41,200  | 13    | 38,700  | 12 5  | 35,800  | 11 5  |
| 165   | 4400             | 1 60             |  |  |  |  |  |  |  |   |   |       | 42,000  | 14 5  | 39,500  | 14 0  |
| 172   | 4600             | 1 75             |  |  |  |  |  |  |  |   |   |       | 45,200  | 17 5  | 42,900  | 16 5  |
| 180   | 4800             | 1 90             |  |  |  |  |  |  |  |   |   |       |   |       | 46,000  | 19    |
| 187   | 5000             | 2 06             |  |  |  |  |  |  |  |   |   |       |   |       | 49,200  | 22    |
|   |                  |                  |  |  |  |  |  |  |  |   |   |       |   |       |   |       |
| R.P.M.  | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 oza. per sq. inch                  | Static Pressure 1¼" Water .723 oza. per sq. inch | Static Pressure 1½" Water .87 oza. per sq. inch                  | Static Pressure 1¾" Water 1.01 oza. per sq. inch | Static Pressure 2" Water 1.16 oza. per sq. inch                  | Static Pressure 2¼" Water 1.45 oza. per sq. inch | Static Pressure 2½" Water 1.73 oza. per sq. inch                 | Static Pressure 3" Water 1.73 oza. per sq. inch |   |       |   |       |   |       |
| 127   | 3400             | 0 953            | 11,600   | 2 75   |  |  |  |  |  |   |   |       |   |       |   |       |
| 135   | 3600             | 1 07             | 19,500   | 4 75   |  |  |  |  |  |   |   |       |   |       |   |       |
| 142   | 3800             | 1 19             | 24,600   | 6 5  | 12,500   | 3 75   |  |  |  |   |   |       |   |       |   |       |
| 150   | 4000             | 1 32             | 29,000   | 8 5  | 21,500   | 6 5  |  |  |  |   |   |       |   |       |   |       |
| 157   | 4200             | 1 46             | 32,900   | 10 5   | 26,500   | 8 6  | 16,300   | 5 7  |  |   |   |       |   |       |   |       |
| 165   | 4400             | 1 60             | 36,800   | 13 0   | 30,800   | 11 0   | 23,900   | 8 7  |  |   |   |       |   |       |   |       |
| 172   | 4600             | 1 75             | 40,300   | 15 5   | 35,000   | 13 5   | 28,900   | 11 5   |  |   |   |       |   |       |   |       |
| 180   | 4800             | 1 90             | 43,700   | 18 5   | 38,800   | 16 5   | 33,500   | 14   | 20,500   | 8 4   |   |       |   |       |   |       |
| 187   | 5000             | 2 06             | 47,100   | 21 5   | 42,500   | 19 5   | 37,600   | 17   | 26,700   | 11 5  |   |       |   |       |   |       |
| 197   | 5250             | 2 27             |  |  |  |  | 42,300   | 21   | 31,800   | 11 5  |   |       |   |       |   |       |
| 206   | 5500             | 2 50             |  |  |  |  | 47,000   | 26   | 37,400   | 19 0  |   |       |   |       |   |       |
| 215   | 5750             | 2 73             |  |  |  |  | 51,500   | 31   | 42,600   | 23 5  |   |       |   |       |   |       |
| 225   | 6000             | 2 97             |  |  |  |  | 55,800   | 35   | 47,300   | 28  |   |       |   |       |   |       |
| 234   | 6250             | 3 22             |  |  |  |  | 59,900   | 42   | 51,800   | 34  |   |       |   |       |   |       |
| 242   | 6500             | 3 49             |  |  |  |  | 63,800   | 49   | 56,500   | 40  |   |       |   |       |   |       |
| 253   | 6750             | 3 76             |  |  |  |  |  |  | 60,500   | 46  |   |       |   |       |   |       |
| 262   | 7000             | 4 04             |  |  |  |  |  |  | 64,800   | 54  |   |       |   |       |   |       |
| 271   | 7250             | 4 34             |  |  |  |  |  |  | 68,500   | 60  |   |       |   |       |   |       |
| 281   | 7500             | 4 64             |  |  |  |  |  |  |  |   |   |       |   |       |   |       |
| 290   | 7750             | 4 96             |  |  |  |  |  |  |  |   |   |       |   |       |   |       |
| 299   | 8000             | 5 28             |  |  |  |  |  |  |  |   |   |       |   |       |   |       |
| 308   | 8250             | 5 62             |  |  |  |  |  |  |  |   |   |       |   |       |   |       |
| 318   | 8500             | 5 96             |  |  |  |  |  |  |  |   |   |       |   |       |   |       |
| 327   | 8750             | 6 32             |  |  |  |  |  |  |  |   |   |       |   |       |   |       |
| 337   | 9000             | 6 68             |  |  |  |  |  |  |  |   |   |       |   |       |   |       |
|   |                  |                  |  |  |  |  |  |  |  |   | 24,500  | 14 5  | 38,700  | 26    | 25,600  | 18    |
|   |                  |                  |  |  |  |  |  |  |  |   | 32,300  | 20    | 44,200  | 32    | 33,800  | 25    |
|   |                  |                  |  |  |  |  |  |  |  |   | 49,500  | 38    | 57,000  | 44    | 40,800  | 32    |
|   |                  |                  |  |  |  |  |  |  |  |   | 61,300  | 50    | 69,500  | 58    | 46,300  | 39    |
|   |                  |                  |  |  |  |  |  |  |  |   | 72,000  | 78    | 83,800  | 110   | 51,700  | 46    |
|   |                  |                  |  |  |  |  |  |  |  |   |   |       |   |       | 56,400  | 54    |
|   |                  |                  |  |  |  |  |  |  |  |   |   |       |   |       | 61,100  | 62    |
|   |                  |                  |  |  |  |  |  |  |  |   |   |       |   |       | 65,700  | 72    |
|   |                  |                  |  |  |  |  |  |  |  |   |   |       |   |       | 70,200  | 82    |
|   |                  |                  |  |  |  |  |  |  |  |   |   |       |   |       | 74,900  | 92    |
|   |                  |                  |  |  |  |  |  |  |  |   |   |       |   |       | 79,000  | 105   |
|   |                  |                  |  |  |  |  |  |  |  |   |   |       |   |       | 83,100  | 115   |
|   |                  |                  |  |  |  |  |  |  |  |   |   |       |   |       | 87,000  | 125   |

**Double Inlet 8½' Steel Plate Fan—Design 2—Cont'd Single Width**  
**When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances.**

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.<br>Static Pressure 3½" Water<br>2.02 ozs. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure 4" Water<br>2.31 ozs. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure 5" Water<br>2.89 ozs. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure 6" Water<br>3.47 ozs. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure 7" Water<br>4.05 ozs. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure 8" Water<br>4.63 ozs. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure 9" Water<br>5.2 ozs. per sq. inch | H. P. |
|--------|------------------|------------------|--|-------|---|-------|---|-------|---|-------|---|-------|---|-------|--|-------|
| 242    | 6500             | 3 49             | 28,900   | 24    |   |       |   |       |   |       |   |       |   |       |  |       |
| 253    | 6750             | 3 76             | 37,000   | 32    | 17,800  | 18 5  |   |       |   |       |   |       |   |       |  |       |
| 262    | 7000             | 4 01             | 43,200   | 39    | 32,400  | 30    |   |       |   |       |   |       |   |       |  |       |
| 271    | 7250             | 4 31             | 49,200   | 47    | 40,400  | 40    |   |       |   |       |   |       |   |       |  |       |
| 281    | 7500             | 4 61             | 51,500   | 56    | 46,700  | 48    |   |       |   |       |   |       |   |       |  |       |
| 290    | 7750             | 4 96             | 59,500   | 64    | 52,900  | 58    | 33,400  | 39    |   |       |   |       |   |       |  |       |
| 299    | 8000             | 5 28             | 61,400   | 74    | 58,000  | 68    | 42,000  | 50    |   |       |   |       |   |       |  |       |
| 308    | 8250             | 5 62             | 69,000   | 84    | 63,000  | 78    | 49,200  | 62    |   |       |   |       |   |       |  |       |
| 318    | 8500             | 5 96             | 73,600   | 96    | 67,700  | 88    | 55,000  | 74    | 37,100  | 52    |   |       |   |       |  |       |
| 327    | 8750             | 6 32             | 77,900   | 105   | 72,300  | 100   | 60,600  | 86    | 46,000  | 66    |   |       |   |       |  |       |
| 337    | 9000             | 6 68             | 82,400   | 120   | 76,800  | 110   | 66,100  | 98    | 52,800  | 80    | 30,400  | 52    |   |       |  |       |
| 356    | 9500             | 7 45             | 90,500   | 150   | 86,000  | 140   | 75,700  | 125   | 65,000  | 110   | 50,800  | 85    |   |       |  |       |
| 374    | 10000            | 8 25             | 98,500   | 180   | 94,300  | 170   | 85,000  | 155   | 75,200  | 135   | 63,800  | 120   | 49,300  | 94    |  |       |
| 391    | 10500            | 9 10             |  |       | 102,000   | 205   | 94,000  | 185   | 84,600  | 165   | 74,800  | 150   | 63,400  | 130   | 48,600   | 105   |
| 412    | 11000            | 9 98             |  |       |   |       | 103,000   | 185   | 84,000  | 165   | 75,000  | 150   | 63,000  | 130   | 63,000   | 145   |
| 431    | 11500            | 10 9             |  |       |   |       | 110,000   | 265   | 103,000   | 245   | 94,500  | 225   | 85,800  | 205   | 75,900   | 185   |
| 450    | 12000            | 11 9             |  |       |   |       | 118,000   | 305   | 111,000   | 290   | 104,000   | 270   | 95,400  | 245   | 87,300   | 230   |
| 468    | 12500            | 12 9             |  |       |   |       |   |       | 120,000   | 340   | 113,000   | 320   | 105,000   | 295   | 97,500   | 275   |
| 487    | 13000            | 13 9             |  |       |   |       |   |       | 127,000   | 390   | 121,000   | 370   | 114,000   | 315   | 107,000  | 325   |
| 507    | 13500            | 15 0             |  |       |   |       |   |       |   |       | 123,000   | 430   | 122,000   | 405   | 116,000  | 380   |
| 525    | 14000            | 16 2             |  |       |   |       |   |       |   |       | 137,000   | 485   | 131,000   | 465   | 125,000  | 440   |
| 542    | 14500            | 17 4             |  |       |   |       |   |       |   |       |   |       | 139,000   | 525   | 133,000  | 505   |
| 562    | 15000            | 18 6             |  |       |   |       |   |       |   |       |   |       | 147,000   | 595   | 142,000  | 575   |
| 580    | 15500            | 19 8             |  |       |   |       |   |       |   |       |   |       |   |       | 149,000  | 645   |
| 598    | 16000            | 21 1             |  |       |   |       |   |       |   |       |   |       |   |       | 158,000  | 730   |
|        |                  |                  |  |       |   |       |   |       |   |       |   |       |   |       |  |       |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 10" Water<br>5.78 ozs. per sq. inch                  |       | Static Pressure 11" Water<br>6.36 ozs. per sq. inch                 |       | Static Pressure 12" Water<br>6.93 ozs. per sq. inch                 |       | Static Pressure 13" Water<br>7.51 ozs. per sq. inch                 |       | Static Pressure 14" Water<br>8.08 ozs. per sq. inch                 |       | Static Pressure 15" Water<br>8.66 ozs. per sq. inch                 |       | Static Pressure 16" Water<br>9.24 ozs. per sq. inch                |       |
| 412    | 11000            | 9 98             | 48,900   | 115   |   |       |   |       |   |       |   |       |   |       |  |       |
| 431    | 11500            | 10 9             | 64,800   | 160   | 50,200  | 130   |   |       |   |       |   |       |   |       |  |       |
| 450    | 12000            | 11 9             | 77,300   | 205   | 66,300  | 180   | 51,300  | 145   |   |       |   |       |   |       |  |       |
| 468    | 12500            | 12 9             | 88,600   | 250   | 78,200  | 230   | 69,600  | 205   | 54,500  | 165   |   |       |   |       |  |       |
| 487    | 13000            | 13 9             | 99,000   | 305   | 90,500  | 280   | 81,800  | 255   | 71,000  | 225   | 57,100  | 185   |   |       |  |       |
| 507    | 13500            | 15 0             | 108,000  | 355   | 101,000   | 330   | 92,500  | 305   | 84,000  | 280   | 75,000  | 255   |   |       |  |       |
| 525    | 14000            | 16 2             | 117,000  | 410   | 111,000   | 390   | 103,000   | 365   | 96,000  | 345   | 87,400  | 315   |   |       |  |       |
| 542    | 14500            | 17 4             | 127,000  | 480   | 120,000   | 450   | 113,000   | 430   | 106,000   | 405   | 99,400  | 380   |   |       |  |       |
| 562    | 15000            | 18 6             | 136,000  | 550   | 129,000   | 525   | 122,000   | 495   | 116,000   | 470   | 109,000   | 445   |   |       |  |       |
| 580    | 15500            | 19 8             | 144,000  | 620   | 138,000   | 590   | 132,000   | 570   | 126,000   | 545   | 119,000   | 515   |   |       |  |       |
| 598    | 16000            | 21 1             | 152,000  | 705   | 147,000   | 680   | 141,000   | 650   | 135,000   | 620   | 128,000   | 590   |   |       |  |       |
| 618    | 16500            | 22 5             | 160,000  | 785   | 155,000   | 760   | 149,000   | 740   | 144,000   | 705   | 138,000   | 670   |   |       |  |       |
| 635    | 17000            | 23 8             | 168,000  | 880   | 163,000   | 845   | 158,000   | 815   | 153,000   | 795   | 147,000   | 760   |   |       |  |       |
| 655    | 17500            | 25 3             |  |       | 171,000   | 945   | 166,000   | 925   | 161,000   | 885   | 156,000   | 860   |   |       |  |       |
| 673    | 18000            | 26 7             |  |       |   |       | 174,000   | 1020  | 170,000   | 980   | 164,000   | 960   |   |       |  |       |
| 693    | 18500            | 28 2             |  |       |   |       | 182,000   | 1120  | 177,000   | 1080  | 172,000   | 1050  |   |       |  |       |
| 712    | 19000            | 29 8             |  |       |   |       |   |       | 186,000   | 1210  | 181,000   | 1200  |   |       |  |       |
| 730    | 19500            | 31 4             |  |       |   |       |   |       |   |       | 189,000   | 1300  |   |       |  |       |
| 750    | 20000            | 33               |  |       |   |       |   |       |   |       | 197,000   | 1430  |   |       |  |       |



### Single Width

**When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances**

[illegible]

# Double Inlet **9' Steel Plate Fan—Design 2—Cont'd** Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M. Static Pressure 3 1/2" Water 2.02 ozs. per sq. inch | H. P. | Volume C.F.M. Static Pressure 4" Water 2.31 ozs. per sq. inch | H. P. | Volume C.F.M. Static Pressure 5" Water 2.89 ozs. per sq. inch | H. P. | Volume C.F.M. Static Pressure 6" Water 3.47 ozs. per sq. inch | P. H. | Volume C.F.M. Static Pressure 7" Water 4.05 ozs. per sq. inch | H. P. | Volume C.F.M. Static Pressure 8" Water 4.63 ozs. per sq. inch | H. P. | Volume C.F.M. Static Pressure 9" Water 5.2 ozs. per sq. inch | H. P. |
|--------|------------------|------------------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|--|-------|
| 230    | 6500             | 3 49             | 32,500  | 27    |   |       |   |       |   |       |   |       |   |       |  |       |
| 239    | 6750             | 3 76             | 41,600  | 36    | 20,000  | 20 5  |   |       |   |       |   |       |   |       |  |       |
| 248    | 7000             | 4 04             | 48,500  | 44    | 36,500  | 34    |   |       |   |       |   |       |   |       |  |       |
| 256    | 7250             | 4 34             | 55,300  | 54    | 45,400  | 41    |   |       |   |       |   |       |   |       |  |       |
| 266    | 7500             | 4 64             | 61,200  | 62    | 52,500  | 54    |   |       |   |       |   |       |   |       |  |       |
| 274    | 7750             | 4 96             | 67,000  | 72    | 59,500  | 68    | 37,800  | 44    |   |       |   |       |   |       |  |       |
| 283    | 8000             | 5 28             | 72,300  | 81    | 65,200  | 76    | 47,200  | 56    |   |       |   |       |   |       |  |       |
| 291    | 8250             | 5 62             | 77,500  | 94    | 71,000  | 88    | 55,300  | 70    |   |       |   |       |   |       |  |       |
| 301    | 8500             | 5 96             | 82,700  | 110   | 76,000  | 100   | 61,900  | 82    | 41,900  | 58    |   |       |   |       |  |       |
| 309    | 8750             | 6 32             | 87,500  | 120   | 81,400  | 110   | 68,200  | 96    | 51,600  | 74    |   |       |   |       |  |       |
| 319    | 9000             | 6 68             | 92,500  | 135   | 86,400  | 125   | 74,400  | 110   | 59,400  | 90    | 34,100  | 58    |   |       |  |       |
| 336    | 9500             | 7 45             | 102,000   | 170   | 96,700  | 160   | 85,100  | 140   | 73,000  | 120   | 57,100  | 96    |   |       |  |       |
| 354    | 10000            | 8 25             | 111,000   | 200   | 106,000   | 190   | 95,500  | 170   | 84,500  | 155   | 71,800  | 130   | 55,500  | 105   |  |       |
| 372    | 10500            | 9 10             |   |       | 115,000   | 230   | 106,000   | 210   | 95,100  | 190   | 84,100  | 170   | 71,400  | 145   | 54,700   | 115   |
| 389    | 11000            | 9 98             |   |       |   |       | 115,000   | 250   | 106,000   | 230   | 95,500  | 210   | 84,400  | 185   | 71,800   | 160   |
| 407    | 11500            | 10 9             |   |       |   |       | 124,000   | 300   | 116,000   | 275   | 106,000   | 255   | 96,500  | 230   | 85,300   | 205   |
| 424    | 12000            | 11 9             |   |       |   |       |   | 345   | 125,000   | 330   | 116,000   | 300   | 107,000   | 280   | 98,000   | 260   |
| 442    | 12500            | 12 9             |   |       |   |       |   |       | 135,000   | 380   | 127,000   | 360   | 118,000   | 330   | 110,000  | 310   |
| 460    | 13000            | 13 9             |   |       |   |       |   |       | 143,000   | 440   | 136,000   | 415   | 128,000   | 390   | 120,000  | 370   |
| 477    | 13500            | 15 0             |   |       |   |       |   |       |   |       | 146,000   | 480   | 138,000   | 455   | 130,000  | 430   |
| 495    | 14000            | 16 2             |   |       |   |       |   |       |   |       | 154,000   | 545   | 147,000   | 520   | 140,000  | 495   |
| 513    | 14500            | 17 4             |   |       |   |       |   |       |   |       |   |       | 156,000   | 590   | 150,000  | 570   |
| 530    | 15000            | 18 6             |   |       |   |       |   |       |   |       |   |       | 165,000   | 670   | 159,000  | 650   |
| 548    | 15500            | 19 8             |   |       |   |       |   |       |   |       |   |       |   |       | 168,000  | 725   |
| 565    | 16000            | 21 1             |   |       |   |       |   |       |   |       |   |       |   |       | 177,000  | 820   |
|        |                  |                  |   |       |   |       |   |       |   |       |   |       |   |       |  |       |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 10" Water 5.78 ozs. per sq. inch                  |       | Static Pressure 11" Water 6.36 ozs. per sq. inch              |       | Static Pressure 12" Water 6.93 ozs. per sq. inch              |       | Static Pressure 13" Water 7.51 ozs. per sq. inch              |       | Static Pressure 14" Water 8.08 ozs. per sq. inch              |       | Static Pressure 15" Water 8.66 ozs. per sq. inch              |       | Static Pressure 16" Water 9.24 ozs. per sq. inch             |       |
| 389    | 11000            | 9 98             | 55,000  | 130   |   |       |   |       |   |       |   |       |   |       |  |       |
| 407    | 11500            | 10 9             | 72,900  | 180   | 56,400  | 145   |   |       |   |       |   |       |   |       |  |       |
| 424    | 12000            | 11 9             | 86,800  | 230   | 74,500  | 200   | 57,600  | 160   |   |       |   |       |   |       |  |       |
| 442    | 12500            | 12 9             | 99,700  | 285   | 89,000  | 255   | 78,300  | 230   | 61,300  | 185   |   |       |   |       |  |       |
| 460    | 13000            | 13 9             | 111,000   | 340   | 102,000   | 315   | 92,000  | 285   | 79,800  | 250   | 64,200  | 210   |   |       |  |       |
| 477    | 13500            | 15 0             | 121,000   | 400   | 114,000   | 375   | 104,000   | 345   | 94,500  | 320   | 84,500  | 285   |   |       |  |       |
| 495    | 14000            | 16 2             | 132,000   | 465   | 124,000   | 440   | 116,000   | 410   | 108,000   | 385   | 98,100  | 355   |   |       |  |       |
| 513    | 14500            | 17 4             | 143,000   | 540   | 135,000   | 505   | 127,000   | 480   | 120,000   | 455   | 112,000   | 430   |   |       |  |       |
| 530    | 15000            | 18 6             | 153,000   | 620   | 145,000   | 590   | 138,000   | 555   | 131,000   | 530   | 123,000   | 500   |   |       |  |       |
| 548    | 15500            | 19 8             | 162,000   | 700   | 155,000   | 670   | 148,000   | 640   | 142,000   | 615   | 134,000   | 580   |   |       |  |       |
| 565    | 16000            | 21 1             | 171,000   | 790   | 165,000   | 760   | 158,000   | 730   | 152,000   | 700   | 144,000   | 665   |   |       |  |       |
| 583    | 16500            | 22 5             | 180,000   | 885   | 174,000   | 855   | 168,000   | 830   | 162,000   | 795   | 155,000   | 755   |   |       |  |       |
| 600    | 17000            | 23 8             | 189,000   | 990   | 183,000   | 950   | 178,000   | 920   | 172,000   | 890   | 165,000   | 860   |   |       |  |       |
| 618    | 17500            | 25 3             |   |       | 192,000   | 1060  | 187,000   | 1040  | 181,000   | 995   | 176,000   | 965   |   |       |  |       |
| 636    | 18000            | 26 7             |   |       |   |       | 196,000   | 1150  | 191,000   | 1100  | 185,000   | 1080  |   |       |  |       |
| 654    | 18500            | 28 2             |   |       |   |       | 205,000   | 1260  | 200,000   | 1220  | 194,000   | 1180  |   |       |  |       |
| 671    | 19000            | 29 8             |   |       |   |       |   |       | 209,000   | 1360  | 204,000   | 1310  |   |       |  |       |
| 689    | 19500            | 31 4             |   |       |   |       |   |       |   |       | 213,000   | 1460  |   |       |  |       |
| 707    | 20000            | 33               |   |       |   |       |   |       |   |       | 221,000   | 1600  |   |       |  |       |

### Single Widt

**When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances**

[illegible]

**When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances**

515

### Single Width

**When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances**

| R.P.M. | Tip Speed<br>F.P.M. | S.N.D.<br>in<br>inches | Volume<br>C.F.M.   | H. P. | Volume<br>C.F.M.  | H. P. | Volume<br>C.F.M.   | H. P. | Volume<br>C.F.M.  | H. P. | Volume<br>C.F.M.   | H. P. | Volume<br>C.F.M.  | H. P. | Volume<br>C.F.M.   | H. P. | Volume<br>C.F.M. | H. P. |
|--------|---------------------|------------------------|--|-------|---|-------|--|-------|---|-------|--|-------|---|-------|--|-------|------------------|-------|
|        |                     |                        | Static Pressure<br>¾" Water<br>.073 ozs. per<br>sq. inch |       | Static Pressure<br>½" Water<br>.145 ozs. per<br>sq. inch  |       | Static Pressure<br>¾" Water<br>.217 ozs. per<br>sq. inch |       | Static Pressure<br>½" Water<br>.289 ozs. per<br>sq. inch  |       | Static Pressure<br>¾" Water<br>.361 ozs. per<br>sq. inch |       | Static Pressure<br>½" Water<br>.434 ozs. per<br>sq. inch  |       | Static Pressure<br>¾" Water<br>.505 ozs. per<br>sq. inch |       |                  |       |
| 40     | 1400                | 0 162                  | 16,700   | 0 60  |   |       |  |       |   |       |  |       |   |       |  |       |                  |       |
| 46     | 1600                | 0 211                  | 23,200   | 1 05  |   |       |  |       |   |       |  |       |   |       |  |       |                  |       |
| 52     | 1800                | 0 267                  | 28,900   | 1 7   | 16,200  | 0 98  |  |       |   |       |  |       |   |       |  |       |                  |       |
| 58     | 2000                | 0 330                  |  |       | 24,400  | 1 85  |  |       |   |       |  |       |   |       |  |       |                  |       |
| 64     | 2200                | 0 400                  |  |       | 30,800  | 2 7   | 19,900   | 1 80  |   |       |  |       |   |       |  |       |                  |       |
| 69     | 2400                | 0 475                  |  |       | 36,700  | 3 8   | 28,100   | 2 95  |   |       |  |       |   |       |  |       |                  |       |
| 75     | 2600                | 0 558                  |  |       | 42,300  | 5 2   | 31,700   | 4 25  | 12,900  | 1 55  |  |       |   |       |  |       |                  |       |
| 81     | 2800                | 0 617                  |  |       |   |       | 41,000   | 5 8   | 25,700  | 3 25  |  |       |   |       |  |       |                  |       |
| 87     | 3000                | 0 743                  |  |       |   |       | 46,800   | 7 6   | 33,400  | 4 75  | 23,800   | 3 55  |   |       |  |       |                  |       |
| 93     | 3200                | 0 825                  |  |       |   |       | 51,600   | 9 4   | 40,000  | 6 50  | 32,600   | 5 4   | 21,700  | 3 8   |  |       |                  |       |
| 98     | 3400                | 0 953                  |  |       |   |       |  |       | 46,300  | 8 30  | 39,000   | 7 1   | 30,800  | 5 8   | 16,100   |       | 3 45             |       |
| 104    | 3600                | 1 07                   |  |       |   |       |  |       | 52,200  | 11 0  | 46,100   | 9 6   | 39,900  | 8 4   | 32,100   | 6 9   |                  |       |
| 110    | 3800                | 1 19                   |  |       |   |       |  |       | 57,900  | 13 5  | 52,200   | 12 0  | 46,700  | 11 0  | 40,600   | 9 7   |                  |       |
| 116    | 4000                | 1 32                   |  |       |   |       |  |       | 62,900  | 16 5  | 58,200   | 15 5  | 53,100  | 14 0  | 47,400   | 12 5  |                  |       |
| 121    | 4200                | 1 46                   |  |       |   |       |  |       |   |       | 64,000   | 18 5  | 59,500  | 17 0  | 54,100   | 15 5  |                  |       |
| 127    | 4400                | 1 60                   |  |       |   |       |  |       |   |       | 69,100   | 22    | 65,000  | 21 0  | 60,000   | 19 0  |                  |       |
| 133    | 4600                | 1 75                   |  |       |   |       |  |       |   |       |  |       | 70,500  | 24 5  | 66,300   | 23 5  |                  |       |
| 139    | 4800                | 1 90                   |  |       |   |       |  |       |   |       |  |       | 75,900  | 29    | 72,000   | 28    |                  |       |
| 145    | 5000                | 2 06                   |  |       |   |       |  |       |   |       |  |       |   |       | 77,300   | 32    |                  |       |
|        |                     |                        |  |       |   |       |  |       |   |       |  |       |   |       | 82,500   | 37    |                  |       |
| R.P.M. | Tip Speed<br>F.P.M. | S.N.D.<br>in<br>inches | Static Pressure<br>1" Water<br>.578 ozs. per<br>sq. inch |       | Static Pressure<br>1¼" Water<br>.723 ozs. per<br>sq. inch |       | Static Pressure<br>1½" Water<br>.87 ozs. per<br>sq. inch |       | Static Pressure<br>1¾" Water<br>1.01 ozs. per<br>sq. inch |       | Static Pressure<br>2" Water<br>1.16 ozs. per<br>sq. inch |       | Static Pressure<br>2½" Water<br>1.45 ozs. per<br>sq. inch |       | Static Pressure<br>3" Water<br>1.73 ozs. per<br>sq. inch |       |                  |       |
| 98     | 3400                | 0 953                  | 19,500   | 4 05  |   |       |  |       |   |       |  |       |   |       |  |       |                  |       |
| 104    | 3600                | 1 07                   | 32,600   | 8 0   |   |       |  |       |   |       |  |       |   |       |  |       |                  |       |
| 110    | 3800                | 1 19                   | 41,300   | 11 0  | 21,000  | 6 3   |  |       |   |       |  |       |   |       |  |       |                  |       |
| 116    | 4000                | 1 32                   | 48,800   | 14 5  | 36,100  | 11 0  |  |       |   |       |  |       |   |       |  |       |                  |       |
| 121    | 4200                | 1 46                   | 55,300   | 17 5  | 44,500  | 14 5  | 27,300   | 9 6   |   |       |  |       |   |       |  |       |                  |       |
| 127    | 4400                | 1 60                   | 61,800   | 21 5  | 51,800  | 18 5  | 40,100   | 14 5  |   |       |  |       |   |       |  |       |                  |       |
| 133    | 4600                | 1 75                   | 67,700   | 26    | 58,800  | 23    | 48,500   | 19 0  | 34,400  | 14 0  |  |       |   |       |  |       |                  |       |
| 139    | 4800                | 1 90                   | 73,400   | 31    | 65,200  | 28    | 56,200   | 23 5  | 44,800  | 19 5  | 26,300   | 12 5  |   |       |  |       |                  |       |
| 145    | 5000                | 2 06                   | 79,100   | 36    | 71,300  | 32    | 63,200   | 29    | 53,400  | 24 5  | 41,400   | 19 5  |   |       |  |       |                  |       |
| 162    | 5250                | 2 27                   |  |       |   |       | 71,000   | 35    | 62,800  | 32    | 53,100   | 27    |   |       |  |       |                  |       |
| 159    | 5500                | 2 50                   |  |       |   |       | 78,800   | 43    | 71,500  | 39    | 63,300   | 35    | 41,100  | 24    |  |       |                  |       |
| 166    | 5750                | 2 73                   |  |       |   |       | 86,400   | 52    | 79,400  | 47    | 71,900   | 43    | 54,300  | 34    |  |       |                  |       |
| 174    | 6000                | 2 97                   |  |       |   |       |  | 62    | 87,000  | 56    | 80,000   | 52    | 65,000  | 43    | 43,000   | 30    |                  |       |
| 181    | 6250                | 3 22                   |  |       |   |       | 100,000  | 72    | 91,000  | 66    | 87,800   | 62    | 74,200  | 52    | 56,800   | 42    |                  |       |
| 188    | 6500                | 3 49                   |  |       |   |       | 107,000  | 82    | 102,000   | 78    | 95,600   | 74    | 83,000  | 64    | 68,500   | 54    |                  |       |
| 195    | 6750                | 3 76                   |  |       |   |       |  |       | 109,000   | 90    | 103,000  | 84    | 90,900  | 74    | 77,700   | 64    |                  |       |
| 203    | 7000                | 4 04                   |  |       |   |       |  |       | 115,000   | 100   | 110,000  | 98    | 98,500  | 86    | 86,800   | 78    |                  |       |
| 210    | 7250                | 4 34                   |  |       |   |       |  |       |   |       | 117,000  | 110   | 107,000   | 100   | 94,000   | 90    |                  |       |
| 217    | 7500                | 4 64                   |  |       |   |       |  |       |   |       | 113,000  | 125   | 114,000   | 115   | 103,000  | 105   |                  |       |
| 224    | 7750                | 4 96                   |  |       |   |       |  |       |   |       |  |       | 121,000   | 130   | 110,000  | 120   |                  |       |
| 231    | 8000                | 5 28                   |  |       |   |       |  |       |   |       |  |       | 128,000   | 150   | 118,000  | 135   |                  |       |
| 238    | 8250                | 5 62                   |  |       |   |       |  |       |   |       |  |       | 134,000   | 165   | 126,000  | 155   |                  |       |
| 246    | 8500                | 5 96                   |  |       |   |       |  |       |   |       |  |       | 141,000   | 180   | 133,000  | 175   |                  |       |
| 253    | 8750                | 6 32                   |  |       |   |       |  |       |   |       |  |       |   |       | 140,000  | 195   |                  |       |
| 260    | 9000                | 6 68                   |  |       |   |       |  |       |   |       |  |       |   |       | 146,000  | 215   |                  |       |

**Double Inlet 11' Steel Plate Fan—Design 2—Cont'd Single Width**  
 When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M. H. P. Static Pressure 3 1/2" Water 2.02 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 4" Water 2.31 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 5" Water 2.89 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 6" Water 3.47 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 7" Water 4.05 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 8" Water 4.63 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 9" Water 5.2 ozs. per sq. inch |
|--------|------------------|------------------|---|---|---|---|---|---|--|
| 188    | 6500             | 3 49             | 48,500 40   |   |   |   |   |   |  |
| 195    | 6750             | 3 76             | 62,100 51   |   |   |   |   |   |  |
| 203    | 7000             | 4 04             | 72,500 66   | 29,000 31   |   |   |   |   |  |
| 210    | 7250             | 4 34             | 82,500 80   | 54,500 52   |   |   |   |   |  |
| 217    | 7500             | 4 64             | 91,500 94   | 67,800 66   |   |   |   |   |  |
| 224    | 7750             | 4 96             | 100,000 110   | 78,300 82   |   |   |   |   |  |
| 231    | 8000             | 5 28             | 108,000 125   | 88,800 98   | 56,100 66   |   |   |   |  |
| 238    | 8250             | 5 02             | 116,000 140   | 97,300 115  | 70,500 84   |   |   |   |  |
| 246    | 8500             | 5 96             | 123,000 160   | 106,000 130   | 82,500 105  |   |   |   |  |
| 253    | 8750             | 6 32             | 131,000 180   | 114,000 150   | 92,500 125  | 62,300 88   |   |   |  |
| 260    | 9000             | 6 68             | 138,000 205   | 121,000 165   | 102,000 145   | 78,000 110  |   |   |  |
| 275    | 9500             | 7 45             | 152,000 250   | 129,000 185   | 111,000 165   | 88,500 135  | 51,000 88   |   |  |
| 290    | 10000            | 8 25             | 165,000 300   | 144,000 235   | 127,000 210   | 109,000 180   | 85,400 115  |   |  |
| 304    | 10500            | 9 10             |   | 158,000 285   | 143,000 255   | 126,000 230   | 107,000 200   | 82,900 155  |  |
| 319    | 11000            | 9 98             |   | 171,000 340   | 158,000 315   | 142,000 280   | 126,000 250   | 107,000 220   | 81,800 175   |
| 333    | 11500            | 10 9             |   |   | 172,000 375   | 158,000 345   | 143,000 315   | 126,000 280   | 107,000 240  |
| 348    | 12000            | 11 9             |   |   | 185,000 445   | 173,000 410   | 159,000 380   | 144,000 345   | 128,000 310  |
| 362    | 12500            | 12 9             |   |   | 198,000 515   | 187,000 490   | 174,000 450   | 160,000 415   | 147,000 385  |
| 377    | 13000            | 13 9             |   |   |   | 201,000 570   | 189,000 535   | 176,000 495   | 164,000 405  |
| 392    | 13500            | 15 0             |   |   |   | 214,000 655   | 203,000 620   | 191,000 580   | 179,000 550  |
| 406    | 14000            | 16 2             |   |   |   |   | 218,000 720   | 206,000 675   | 194,000 640  |
| 419    | 14500            | 17 4             |   |   |   |   | 230,000 815   | 220,000 780   | 210,000 740  |
| 434    | 15000            | 18 6             |   |   |   |   |   | 234,000 885   | 224,000 855  |
| 448    | 15500            | 19 8             |   |   |   |   |   | 246,000 1000  | 238,000 970  |
| 462    | 16000            | 21 1             |   |   |   |   |   |   | 251,000 1090   |
|        |                  |                  |   |   |   |   |   |   | 265,000 1230   |

| P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 10" Water 5.78 ozs. per sq. inch | Static Pressure 11" Water 6.36 ozs. per sq. inch | Static Pressure 12" Water 6.93 ozs. per sq. inch | Static Pressure 13" Water 7.51 ozs. per sq. inch | Static Pressure 14" Water 8.08 ozs. per sq. inch | Static Pressure 15" Water 8.66 ozs. per sq. inch | Static Pressure 16" Water 9.24 ozs. per sq. inch |
|------|------------------|------------------|--|--|--|--|--|--|--|
| 319  | 11000            | 9 98             | 82,300 195                                       |  |  |  |  |  |  |
| 333  | 11500            | 10 9             | 109,000 270                                      | 84,200 215                                       |  |  |  |  |  |
| 348  | 12000            | 11 9             | 130,000 345                                      | 111,000 300                                      | 86,000 240                                       |  |  |  |  |
| 362  | 12500            | 12 9             | 149,000 425                                      | 133,000 380                                      | 117,000 340                                      | 91,700 280                                       |  |  |  |
| 377  | 13000            | 13 9             | 166,000 510                                      | 152,000 470                                      | 137,000 425                                      | 119,000 375                                      | 96,200 315                                       |  |  |
| 392  | 13500            | 15 0             | 181,000 595                                      | 170,000 560                                      | 155,000 515                                      | 141,000 475                                      | 126,000 425                                      |  |  |
| 406  | 14000            | 16 2             | 197,000 695                                      | 186,000 655                                      | 173,000 615                                      | 161,000 580                                      | 147,000 530                                      |  |  |
| 419  | 14500            | 17 4             | 213,000 810                                      | 201,000 755                                      | 190,000 720                                      | 179,000 685                                      | 167,000 640                                      |  |  |
| 434  | 15000            | 18 6             | 228,000 930                                      | 217,000 880                                      | 206,000 835                                      | 195,000 790                                      | 183,000 745                                      |  |  |
| 448  | 15500            | 19 8             | 242,000 1,040                                    | 232,000 1,000                                    | 221,000 955                                      | 212,000 920                                      | 200,000 870                                      |  |  |
| 462  | 16000            | 21 1             | 256,000 1,180                                    | 246,000 1,140                                    | 236,000 1,090                                    | 227,000 1,050                                    | 216,000 995                                      |  |  |
| 77   | 16500            | 22 5             | 269,000 1,320                                    | 260,000 1,280                                    | 251,000 1,240                                    | 241,000 1,190                                    | 232,000 1,130                                    |  |  |
| 92   | 17000            | 23 8             | 282,000 1,480                                    | 274,000 1,420                                    | 265,000 1,370                                    | 257,000 1,330                                    | 246,000 1,280                                    |  |  |
| 96   | 17500            | 25 3             |  | 287,000 1,580                                    | 279,000 1,550                                    | 270,000 1,480                                    | 263,000 1,460                                    |  |  |
| 20   | 18000            | 26 7             |  |  | 292,000 1,710                                    | 286,000 1,650                                    | 276,000 1,620                                    |  |  |
| 35   | 18500            | 28 2             |  |  | 306,000 1,890                                    | 298,000 1,820                                    | 290,000 1,770                                    |  |  |
| 50   | 19000            | 29 8             |  |  |  | 312,000 2,030                                    | 304,000 2,010                                    |  |  |
| 54   | 19500            | 31 4             |  |  |  |  | 318,000 2,190                                    |  |  |
| 78   | 20000            | 33               |  |  |  |  | 330,000 2,390                                    |  |  |

# Double Inlet 12' Steel Plate Fan—Design 2 Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M. H. P. Static Pressure 1" Water .073 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1½" Water .145 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 2" Water .217 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 2½" Water .289 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 3" Water .361 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 3½" Water .434 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 4" Water .505 ozs. per sq. inch |
|--------|------------------|------------------|---|--|---|--|---|--|---|
| 37     | 1400             | 0 162            | 20,000 .72  |  |   |  |   |  |   |
| 42     | 1600             | 0 211            | 27,600 1 25   |  |   |  |   |  |   |
| 48     | 1800             | 0 267            | 34,500 2 05   | 19,300 1 15  |   |  |   |  |   |
| 53     | 2000             | 0 330            |   | 20,000 2 2   |   |  |   |  |   |
| 58     | 2200             | 0 400            |   | 36,800 3 2   | 23,600 2 15   |  |   |  |   |
| 61     | 2400             | 0 475            |   | 43,700 4 5   | 33,400 3 5  | 15,400 1 85  |   |  |   |
| 69     | 2600             | 0 558            |   | 50,400 6 2   | 41,400 5 0  | 30,600 3 85  |   |  |   |
| 71     | 2800             | 0 647            |   |  | 48,900 6 9  | 39,800 5 7   | 28,300 4 2  |  |   |
| 80     | 3000             | 0 743            |   |  | 55,800 9 1  | 17,700 7 8   | 38,900 6 5  | 25,900 4 55  |   |
| 85     | 3200             | 0 825            |   |  | 61,500 11   | 55,200 9 9   | 46,500 8 4  | 36,700 6 9   | 19,200 4 15   |
| 90     | 3400             | 0 953            |   |  |   | 62,200 13 0  | 55,000 11 5   | 47,500 10 0  | 38,200 8 2  |
| 96     | 3600             | 1 07             |   |  |   | 69,000 16 0  | 62,200 11 5   | 55,600 13 0  | 48,500 11 5   |
| 101    | 3800             | 1 19             |   |  |   | 75,000 19 5  | 69,300 18   | 63,300 16 5  | 56,500 15 0   |
| 106    | 4000             | 1 32             |   |  |   |  | 76,400 22   | 70,800 20 5  | 64,500 18 5   |
| 111    | 4200             | 1 46             |   |  |   |  | 82,400 26   | 77,100 25  | 71,500 22 5   |
| 117    | 4400             | 1 60             |   |  |   |  |   | 84,000 29  | 79,000 28   |
| 122    | 4600             | 1 75             |   |  |   |  |   | 90,400 35  | 85,800 33   |
| 127    | 4800             | 1 90             |   |  |   |  |   |  | 92,100 38   |
| 132    | 5000             | 2 06             |   |  |   |  |   |  | 98,400 44   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .073 ozs. per sq. inch                     | Static Pressure 1½" Water .145 ozs. per sq. inch                     | Static Pressure 2" Water .217 ozs. per sq. inch                     | Static Pressure 2½" Water .289 ozs. per sq. inch                     | Static Pressure 3" Water .361 ozs. per sq. inch                     | Static Pressure 3½" Water .434 ozs. per sq. inch                     | Static Pressure 4" Water .505 ozs. per sq. inch                     |
| 90     | 3400             | 0 953            | 23,200 5 5  |  |   |  |   |  |   |
| 96     | 3600             | 1 07             | 38,900 9 5  |  |   |  |   |  |   |
| 101    | 3800             | 1 19             | 49,100 13   | 25,000 7 5   |   |  |   |  |   |
| 106    | 4000             | 1 32             | 58,100 17   | 43,000 13  |   |  |   |  |   |
| 111    | 4200             | 1 46             | 65,800 21   | 52,000 17  | 32,600 11 5   |  |   |  |   |
| 117    | 4400             | 1 60             | 73,600 26   | 61,600 22  | 47,700 17 5   |  |   |  |   |
| 122    | 4600             | 1 75             | 80,600 31   | 70,000 27  | 57,800 22 5   | 41,000 17  |   |  |   |
| 127    | 4800             | 1 90             | 87,500 37   | 77,600 33  | 67,000 28   | 53,400 23  | 31,300 15 0   |  |   |
| 132    | 5000             | 2 06             | 94,200 43   | 85,000 39  | 75,200 34   | 63,600 29  | 49,300 23 5   |  |   |
| 139    | 5250             | 2 27             |   |  | 84,600 42   | 74,800 38  | 63,300 32   |  |   |
| 146    | 5500             | 2 50             |   |  | 93,800 52   | 85,000 47  | 75,400 42   | 48,900 29  |   |
| 153    | 5750             | 2 73             |   |  | 103,000 62  | 94,500 56  | 85,700 52   | 64,700 40  |   |
| 159    | 6000             | 2 97             |   |  | 111,000 72  | 104,000 68   | 95,400 62   | 77,500 52  | 51,300 36   |
| 166    | 6250             | 3 22             |   |  | 120,000 84  | 113,000 80   | 105,000 74  | 88,100 64  | 67,700 50   |
| 172    | 6500             | 3 49             |   |  | 127,000 98  | 121,000 92   | 114,000 88  | 98,900 76  | 81,700 64   |
| 179    | 6750             | 3 76             |   |  |   | 129,000 105  | 123,000 100   | 108,000 88   | 92,600 78   |
| 186    | 7000             | 4 01             |   |  |   | 137,000 120  | 131,000 115   | 117,000 105  | 104,000 92  |
| 192    | 7250             | 4 34             |   |  |   |  | 139,000 130   | 127,000 120  | 113,000 110   |
| 199    | 7500             | 4 64             |   |  |   |  | 146,000 150   | 136,000 140  | 122,000 125   |
| 205    | 7750             | 4 96             |   |  |   |  |   | 144,000 155  | 132,000 110   |
| 212    | 8000             | 5 28             |   |  |   |  |   | 152,000 175  | 141,000 165   |
| 219    | 8250             | 5 62             |   |  |   |  |   | 160,000 195  | 150,000 185   |
| 226    | 8500             | 5 96             |   |  |   |  |   | 168,000 215  | 158,000 205   |
| 232    | 8750             | 6 32             |   |  |   |  |   |  | 166,000 230   |
| 239    | 9000             | 6 68             |   |  |   |  |   |  | 174,000 255   |

# Double Inlet 12' Steel Plate Fan—Design 2—Cont'd Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M. H. P. Static Pressure 3 1/2" Water 2.02 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 4" Water 2.31 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 5" Water 2.89 ozs. per sq. inch | Volume C.F.M. P. H. Static Pressure 6" Water 3.47 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 7" Water 4.05 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 8" Water 4.63 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 9" Water 5.2 ozs. per sq. inch |
|--------|------------------|------------------|---|---|---|---|---|---|--|
| 172    | 6500             | 3 49             | 57,800 48   |   |   |   |   |   |  |
| 179    | 6750             | 3 76             | 74,000 64   | 35,600 37   |   |   |   |   |  |
| 186    | 7000             | 4 04             | 86,300 78   | 64,800 60   |   |   |   |   |  |
| 192    | 7250             | 4 34             | 98,100 94   | 80,600 80   |   |   |   |   |  |
| 199    | 7500             | 4 61             | 109,000 110   | 93,300 96   |   |   |   |   |  |
| 205    | 7750             | 4 96             | 119,000 130   | 106,000 115   | 66,000 78   |   |   |   |  |
| 212    | 8000             | 5 28             | 129,000 150   | 116,000 135   | 84,000 100  |   |   |   |  |
| 219    | 8250             | 5 62             | 138,000 170   | 126,000 155   | 98,400 125  |   |   |   |  |
| 226    | 8500             | 5 96             | 147,000 195   | 135,000 175   | 110,000 145   | 74,300 105  |   |   |  |
| 232    | 8750             | 6 32             | 156,000 215   | 145,000 200   | 121,000 170   | 92,000 130  |   |   |  |
| 239    | 9000             | 6 68             | 165,000 245   | 154,000 225   | 132,000 195   | 105,000 160   | 60,700 105  |   |  |
| 252    | 9500             | 7 45             | 181,000 300   | 172,000 280   | 151,000 215   | 130,000 215   | 102,000 170   |   |  |
| 265    | 10000            | 8 25             | 197,000 355   | 189,000 340   | 170,000 305   | 150,000 275   | 128,000 235   | 98,700 185  |  |
| 279    | 10500            | 9 10             |   | 204,000 405   | 188,000 370   | 169,000 335   | 150,000 300   | 127,000 260   | 97,300 205   |
| 292    | 11000            | 9 98             |   |   | 205,000 450   | 188,000 410   | 170,000 370   | 150,000 330   | 128,000 290  |
| 305    | 11500            | 10 9             |   |   | 221,000 530   | 206,000 490   | 189,000 450   | 172,000 410   | 152,000 370  |
| 319    | 12000            | 11 9             |   |   | 236,000 615   | 223,000 580   | 207,000 540   | 191,000 495   | 175,000 460  |
| 332    | 12500            | 12 9             |   |   |   | 240,000 680   | 225,000 635   | 210,000 590   | 195,000 555  |
| 345    | 13000            | 13 9             |   |   |   | 254,000 780   | 212,000 740   | 228,000 695   | 213,000 655  |
| 358    | 13500            | 15 0             |   |   |   |   | 259,000 855   | 245,000 805   | 232,000 765  |
| 372    | 14000            | 16 2             |   |   |   |   | 274,000 975   | 261,000 925   | 249,000 880  |
| 384    | 14500            | 17 4             |   |   |   |   |   | 278,000 1050  | 267,000 1010   |
| 399    | 15000            | 18 6             |   |   |   |   |   | 294,000 1190  | 284,000 1160   |
| 410    | 15500            | 19 8             |   |   |   |   |   |   | 299,000 1290   |
| 424    | 16000            | 21 1             |   |   |   |   |   |   | 315,000 1460   |

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 10" Water 5.78 ozs. per sq. inch | Static Pressure 11" Water 6.36 ozs. per sq. inch | Static Pressure 12" Water 6.93 ozs. per sq. inch | Static Pressure 13" Water 7.51 ozs. per sq. inch | Static Pressure 14" Water 8.08 ozs. per sq. inch | Static Pressure 16" Water 9.00 ozs. per sq. inch | Static Pressure 18" Water 10.00 ozs. per sq. inch |
|--------|------------------|------------------|--|--|--|--|--|--|---|
| 292    | 11000            | 9 98             | 97,800 230                                       |  |  |  |  |  |   |
| 305    | 11500            | 10 9             | 130,000 320                                      | 100,000 260                                      |  |  |  |  |   |
| 319    | 12000            | 11 9             | 154,000 410                                      | 133,000 355                                      | 103,000 290                                      |  |  |  |   |
| 332    | 12500            | 12 9             | 177,000 505                                      | 158,000 455                                      | 139,000 405                                      | 109,000 330                                      |  |  |   |
| 345    | 13000            | 13 9             | 198,000 605                                      | 181,000 560                                      | 164,000 510                                      | 142,000 450                                      | 114,000 375                                      |  |   |
| 358    | 13500            | 15 0             | 216,000 710                                      | 202,000 665                                      | 185,000 615                                      | 168,000 565                                      | 150,000 505                                      |  |   |
| 372    | 14000            | 16 2             | 235,000 825                                      | 221,000 780                                      | 207,000 730                                      | 192,000 690                                      | 175,000 630                                      |  |   |
| 384    | 14500            | 17 4             | 254,000 965                                      | 240,000 900                                      | 227,000 855                                      | 213,000 815                                      | 199,000 765                                      |  |   |
| 399    | 15000            | 18 6             | 272,000 1110                                     | 259,000 1050                                     | 245,000 990                                      | 232,000 945                                      | 218,000 890                                      |  |   |
| 410    | 15500            | 19 8             | 288,000 1240                                     | 276,000 1190                                     | 264,000 1140                                     | 252,000 1090                                     | 238,000 1030                                     |  |   |
| 424    | 16000            | 21 1             | 304,000 1410                                     | 294,000 1360                                     | 282,000 1300                                     | 270,000 1240                                     | 257,000 1180                                     |  |   |
| 437    | 16500            | 22 5             | 321,000 1580                                     | 310,000 1520                                     | 299,000 1480                                     | 288,000 1410                                     | 276,000 1340                                     |  |   |
| 450    | 17000            | 23 8             | 336,000 1760                                     | 326,000 1690                                     | 316,000 1630                                     | 306,000 1590                                     | 294,000 1530                                     |  |   |
| 464    | 17500            | 25 3             |  | 342,000 1890                                     | 332,000 1850                                     | 322,000 1770                                     | 313,000 1720                                     |  |   |
| 477    | 18000            | 26 7             |  |  | 348,000 2040                                     | 340,000 1965                                     | 329,000 1920                                     |  |   |
| 490    | 18500            | 28 2             |  |  | 364,000 2250                                     | 355,000 2160                                     | 344,000 2100                                     |  |   |
| 503    | 19000            | 29 8             |  |  |  | 372,000 2420                                     | 362,000 2390                                     |  |   |
| 517    | 19500            | 31 4             |  |  |  |  | 378,000 2600                                     |  |   |
| 530    | 20000            | 33               |  |  |  |  | 391,000 2850                                     |  |   |



### Double Width

**When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances**

[illegible]

# Double Inlet 4' Steel Plate Fan—Design 2—Cont'd Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M. H. P. Static Pressure 3½" Water 2.02 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 4" Water 2.31 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 5" Water 2.89 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 6" Water 3.47 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 7" Water 4.04 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 8" Water 4.62 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 9" Water 5.2 ozs. per sq. inch |
|--------|------------------|------------------|--|---|---|---|---|---|--|
| 517    | 6500             | 3 33             | 8,180 7 2  |   |   |   |   |   |  |
| 537    | 6750             | 3 60             | 12,700 11 0  |   |   |   |   |   |  |
| 557    | 7000             | 3 88             | 15,200 13 5  | 10,400 10 0   |   |   |   |   |  |
| 575    | 7250             | 4 15             | 17,200 16 0  | 14,100 14 0   |   |   |   |   |  |
| 597    | 7500             | 4 45             | 19,000 18 5  | 16,500 16 5   |   |   |   |   |  |
| 615    | 7750             | 4 75             | 20,600 21  | 18,500 19 5   | 9,540 12 0  |   |   |   |  |
| 637    | 8000             | 5 06             | 22,400 24  | 20,400 23   | 14,500 17 5   |   |   |   |  |
| 655    | 8250             | 5 37             | 23,800 27  | 22,000 26   | 17,300 21   |   |   |   |  |
| 677    | 8500             | 5 71             | 25,400 31  | 23,600 29   | 19,400 25   | 10,700 16   |   |   |  |
| 695    | 8750             | 6 05             | 26,800 34  | 25,200 33   | 21,400 29   | 16,000 23   |   |   |  |
| 717    | 9000             | 6 41             | 28,200 38  | 26,800 37   | 23,200 33   | 18,800 28   |   |   |  |
| 756    | 9500             | 7 14             | 31,000 47  | 29,400 44   | 26,400 41   | 22,800 36   | 17,600 30   |   |  |
| 796    | 10000            | 7 91             | 33,600 57  | 32,200 54   | 29,600 50   | 26,400 45   | 22,600 40   | 16,600 32   |  |
| 837    | 10500            | 8 72             |  | 35,000 66   | 32,400 60   | 29,600 56   | 26,400 50   | 22,400 45   | 15,500 34  |
| 877    | 11000            | 9 57             |  | 37,800 76   | 35,000 70   | 32,600 66   | 29,800 62   | 26,400 56   | 22,400 50  |
| 917    | 11500            | 10 5             |  |   | 37,800 84   | 35,400 80   | 33,000 74   | 30,000 68   | 26,800 62  |
| 956    | 12000            | 11 4             |  |   | 40,400 98   | 38,000 92   | 36,000 86   | 33,400 82   | 30,000 76  |
| 996    | 12500            | 12 4             |  |   |   | 40,800 110  | 38,800 100  | 36,600 96   | 34,200 90  |
| 1035   | 13000            | 13 4             |  |   |   | 43,400 125  | 41,600 115  | 39,400 110  | 37,200 105   |
| 1075   | 13500            | 14 4             |  |   |   | 46,200 145  | 44,200 135  | 42,200 130  | 40,000 125   |
| 1115   | 14000            | 15 5             |  |   |   |   | 47,000 155  | 45,000 150  | 43,000 140   |
| 877    | 11000            | 9 57             | 14,500 32  |   |   |   |   |   |  |
| 917    | 11500            | 10 5             | 22,600 56  | 14,500 40   |   |   |   |   |  |
| 956    | 12000            | 11 4             | 27,200 70  | 23,000 62   | 14,800 44   |   |   |   |  |
| 996    | 12500            | 12 4             | 31,200 84  | 28,000 78   | 23,600 70   | 15,400 50   |   |   |  |
| 1035   | 13000            | 13 4             | 34,600 100   | 31,800 94   | 28,600 86   | 24,400 78   | 16,600 58   |   |  |
| 1075   | 13500            | 14 4             | 37,800 115   | 35,400 110  | 32,600 105  | 28,400 96   | 25,400 88   | 18,500 68   |  |
| 1115   | 14000            | 15 5             | 40,800 135   | 38,600 130  | 36,200 125  | 33,600 115  | 30,400 110  | 26,400 98   |  |

Double Inlet

**4 1/2' Steel Plate Fan—Design 2**

Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| I.P.M. | Tip<br>Speed<br>F.P.M. | S.N.D.<br>in<br>Inches | Volume<br>C.F.M.   | H. P.  | Volume<br>C.F.M.   | H. P.  | Volume<br>C.F.M.   | H. P.  | Volume<br>C.F.M.   | H. P. | Volume<br>C.F.M. | H. P. | Volume<br>C.F.M. | H. P. | Volume<br>C.F.M. | H. P. |
|--------|------------------------|------------------------|--|--|--|--|--|--|--|-------|------------------|-------|------------------|-------|------------------|-------|
|        |                        |                        | Static Pressure<br>1/4" Water<br>.072 ozs. per<br>sq. inch | Static Pressure<br>1/2" Water<br>.145 ozs. per<br>sq. inch | Static Pressure<br>3/4" Water<br>.217 ozs. per<br>sq. inch | Static Pressure<br>1" Water<br>.289 ozs. per<br>sq. inch | Static Pressure<br>1 1/4" Water<br>.361 ozs. per<br>sq. inch | Static Pressure<br>1 1/2" Water<br>.434 ozs. per<br>sq. inch | Static Pressure<br>1 3/4" Water<br>.506 ozs. per<br>sq. inch |       |                  |       |                  |       |                  |       |
| 99     | 1400                   | 0 155                  | 4,360  | 0 15   |  |  |  |  |  |       |                  |       |                  |       |                  |       |
| 113    | 1600                   | 0 202                  | 6,000  | 0 26   |  |  |  |  |  |       |                  |       |                  |       |                  |       |
| 127    | 1800                   | 0 256                  | 7,380  | 0 39   | 4,220  | 0 26   |  |  |  |       |                  |       |                  |       |                  |       |
| 141    | 2000                   | 0 316                  | 8,640  | 0 59   | 6,360  | 0 41   |  |  |  |       |                  |       |                  |       |                  |       |
| 155    | 2200                   | 0 383                  | 9,880  | 0 79   | 8,000  | 0 65   | 5,080  | 0 46   |  |       |                  |       |                  |       |                  |       |
| 169    | 2400                   | 0 456                  | 11,100   | 1 05   | 9,460  | 0 91   | 7,140  | 0 74   |  |       |                  |       |                  |       |                  |       |
| 183    | 2600                   | 0 534                  | 12,100   | 1 35   | 10,800   | 1 2  | 9,040  | 1 05   | 6,660  | 0 82  |                  |       |                  |       |                  |       |
| 197    | 2800                   | 0 620                  | 13,300   | 1 70   | 12,100   | 1 6  | 10,500   | 1 4  | 8,740  | 1 2   | 5,880            | 0 89  |                  |       |                  |       |
| 211    | 3000                   | 0 712                  | 14,500   | 2 2  |  |  | 12,000   | 1 8  | 10,500   | 1 6   | 8,500            | 1 35  | 4,720            | 0 89  |                  |       |
| 225    | 3200                   | 0 810                  | 15,500   | 2 7  |  |  | 13,300   | 2 3  | 11,900   | 2 1   | 10,100           | 1 85  | 8,300            | 1 55  |                  |       |
| 240    | 3400                   | 0 914                  | 16,700   | 3 3  |  |  | 14,600   | 2 9  | 13,400   | 2 6   | 11,900           | 2 3   | 10,400           | 2 1   | 8,300            | 1 8   |
| 254    | 3600                   | 1 02                   | 17,800   | 3 9  |  |  |  |  | 14,800   | 3 1   | 13,400           | 2 9   | 12,100           | 2 7   | 10,600           | 2 4   |
| 268    | 3800                   | 1 14                   | 18,900   | 4 6  |  |  |  |  | 16,100   | 3 9   | 15,000           | 3 6   | 13,700           | 3 4   | 12,100           | 3 1   |
| 283    | 4000                   | 1 27                   | 19,900   | 5 3  |  |  |  |  |  |       | 16,300           | 4 1   | 15,200           | 4 1   | 14,000           | 3 8   |
| 297    | 4200                   | 1 39                   | 21,000   | 6 2  |  |  |  |  |  |       | 17,600           | 5 2   | 16,600           | 5 0   | 15,600           | 4 6   |
| 311    | 4400                   | 1 53                   | 22,200   | 7 2  |  |  |  |  |  |       | 19,000           | 6 2   | 18,000           | 5 8   | 17,000           | 5 5   |
| 325    | 4600                   | 1 67                   | 23,200   | 8 2  |  |  |  |  |  |       |                  |       | 19,300           | 6 9   | 18,400           | 6 5   |
| 339    | 4800                   | 1 82                   | 24,400   | 9 4  |  |  |  |  |  |       |                  |       | 20,600           | 8     | 19,700           | 7 6   |
| 353    | 5000                   | 1 98                   | 25,700   | 10 5   |  |  |  |  |  |       |                  |       |                  |       | 21,200           | 9     |

| P.M. | Tip<br>Speed<br>F.P.M. | S.N.D.<br>in<br>Inches | Static Pressure<br>1" Water<br>.578 ozs. per<br>sq. inch | Static Pressure<br>1 1/4" Water<br>.723 ozs. per<br>sq. inch | Static Pressure<br>1 1/2" Water<br>.868 ozs. per<br>sq. inch | Static Pressure<br>1 3/4" Water<br>1.01 ozs. per<br>sq. inch | Static Pressure<br>2" Water<br>1.16 ozs. per<br>sq. inch | Static Pressure<br>2 1/2" Water<br>1.45 ozs. per<br>sq. inch | Static Pressure<br>3" Water<br>1.73 ozs. per<br>sq. inch |
|------|------------------------|------------------------|--|--|--|--|--|--|--|
| 54   | 3600                   | 1 02                   | 8,400  | 2 1  |  |  |  |  |  |
| 68   | 3800                   | 1 14                   | 10,800   | 2 8  |  |  |  |  |  |
| 83   | 4000                   | 1 27                   | 12,700   | 3 5  | 8,980  | 2 7  |  |  |  |
| 97   | 4200                   | 1 39                   | 14,200   | 4 3  | 11,000   | 3 6  |  |  |  |
| 11   | 4400                   | 1 53                   | 15,900   | 5 2  | 13,600   | 4 6  | 10,100   | 3 7  |  |
| 25   | 4600                   | 1 67                   | 17,500   | 6 2  | 15,300   | 5 5  | 12,700   | 4 8  |  |
| 39   | 4800                   | 1 82                   | 18,900   | 7 2  | 16,900   | 6 6  | 14,700   | 5 9  | 7,600  |
| 54   | 5000                   | 1 98                   | 20,200   | 8 4  | 18,100   | 7 6  | 16,400   | 7 0  | 11,000   |
| 72   | 5250                   | 2 18                   | 21,800   | 10   | 20,200   | 9 2  | 18,400   | 8 6  | 16,400   |
| 90   | 5500                   | 2 39                   | 23,600   | 12   | 22,000   | 11 0   | 20,400   | 10 5   | 18,600   |
| 107  | 5750                   | 2 61                   |  |  | 23,600   | 13 0   | 22,200   | 12 0   | 20,600   |
| 125  | 6000                   | 2 85                   |  |  | 25,400   | 15 5   | 24,000   | 14 5   | 22,200   |
| 142  | 6250                   | 3 09                   |  |  |  |  | 25,600   | 17 0   | 24,200   |
| 160  | 6500                   | 3 33                   |  |  |  |  | 27,200   | 19 5   | 26,000   |
| 177  | 6750                   | 3 60                   |  |  |  |  | 28,800   | 22   | 27,800   |
| 195  | 7000                   | 3 88                   |  |  |  |  |  |  | 29,400   |
| 212  | 7250                   | 4 15                   |  |  |  |  |  |  | 31,000   |
| 232  | 7500                   | 4 45                   |  |  |  |  |  |  |  |
| 252  | 7750                   | 4 75                   |  |  |  |  |  |  |  |
| 272  | 8000                   | 5 06                   |  |  |  |  |  |  |  |
| 293  | 8250                   | 5 38                   |  |  |  |  |  |  |  |
| 314  | 8500                   | 5 71                   |  |  |  |  |  |  |  |
| 335  | 8750                   | 6 05                   |  |  |  |  |  |  |  |
| 356  | 9000                   | 6 41                   |  |  |  |  |  |  |  |

# Double Inlet **4½'** Steel Plate Fan—Design 2—Cont'd Double Width When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| per cubic foot Against Continuously Maintained Resistances |                     |                        |   |       |  |       |  |       |  |       |  |       |  |       |   |       |
|--|---------------------|------------------------|---|-------|--|-------|--|-------|--|-------|--|-------|--|-------|---|-------|
| R.P.M.   | Tip Speed<br>F.P.M. | S.N.D.<br>in<br>inches | Volume<br>C.F.M.  | H. P. | Volume<br>C.F.M.   | H. P. | Volume<br>C.F.M.   | H. P. | Volume<br>C.F.M.   | H. P. | Volume<br>C.F.M.   | H. P. | Volume<br>C.F.M.   | H. P. | Volume<br>C.F.M.  | H. P. |
|  |                     |                        | Static Pressure<br>3½" Water<br>2.02 ozs. per<br>sq. inch |       | Static Pressure<br>4" Water<br>2.31 ozs. per<br>sq. inch |       | Static Pressure<br>5" Water<br>2.89 ozs. per<br>sq. inch |       | Static Pressure<br>6" Water<br>3.47 ozs. per<br>sq. inch |       | Static Pressure<br>7" Water<br>4.04 ozs. per<br>sq. inch |       | Static Pressure<br>8" Water<br>4.62 ozs. per<br>sq. inch |       | Static Pressure<br>9" Water<br>5.2 ozs. per<br>sq. inch |       |
| 460  | 6500                | 3 33                   | 10,300  | 9 0   |  |       |  |       |  |       |  |       |  |       |   |       |
| 477  | 6750                | 3 60                   | 15,900  | 13 5  |  |       |  |       |  |       |  |       |  |       |   |       |
| 495  | 7000                | 3 88                   | 19,000  | 17    | 12,700   | 12 5  |  |       |  |       |  |       |  |       |   |       |
| 512  | 7250                | 4 15                   | 21,600  | 20    | 17,400   | 17    |  |       |  |       |  |       |  |       |   |       |
| 532  | 7500                | 4 45                   | 24,000  | 23    | 20,600   | 21    |  |       |  |       |  |       |  |       |   |       |
| 548  | 7750                | 4 75                   | 26,000  | 27    | 23,200   | 25    | 12,100   | 15    |  |       |  |       |  |       |   |       |
| 566  | 8000                | 5 06                   | 28,000  | 30    | 25,100   | 28    | 18,000   | 22    |  |       |  |       |  |       |   |       |
| 583  | 8250                | 5 37                   | 30,000  | 34    | 27,600   | 32    | 21,400   | 27    |  |       |  |       |  |       |   |       |
| 601  | 8500                | 5 71                   | 32,000  | 39    | 28,000   | 36    | 24,200   | 31    | 13,200   | 20    |  |       |  |       |   |       |
| 618  | 8750                | 6 05                   | 33,600  | 43    | 31,100   | 40    | 26,800   | 36    | 19,200   | 29    |  |       |  |       |   |       |
| 636  | 9000                | 6 41                   | 35,600  | 48    | 33,100   | 46    | 28,800   | 40    | 22,800   | 34    |  |       |  |       |   |       |
| 672  | 9500                | 7 14                   | 38,800  | 60    | 36,800   | 56    | 33,200   | 50    | 28,600   | 45    | 22,000   | 37    |  |       |   |       |
| 708  | 10000               | 7 91                   | 42,200  | 72    | 40,400   | 68    | 36,800   | 62    | 31,000   | 56    | 28,200   | 50    | 20,600   | 40    |   |       |
| 743  | 10500               | 8 72                   |   |       | 43,800   | 82    | 40,800   | 76    | 37,200   | 70    | 33,200   | 64    | 28,200   | 56    | 19,100  | 42    |
| 779  | 11000               | 9 57                   |   |       | 47,400   | 96    | 44,200   | 88    | 40,800   | 82    | 37,400   | 78    | 33,400   | 70    | 28,000  | 62    |
| 814  | 11500               | 10 5                   |   |       |  |       | 47,400   | 105   | 44,200   | 100   | 41,200   | 92    | 37,800   | 86    | 33,600  | 78    |
| 850  | 12000               | 11 4                   |   |       |  |       | 50,800   | 125   | 47,800   | 115   | 45,000   | 110   | 42,000   | 105   | 38,200  | 96    |
| 885  | 12500               | 12 4                   |   |       |  |       |  |       | 51,200   | 135   | 48,600   | 130   | 45,600   | 120   | 42,000  | 110   |
| 920  | 13000               | 13 4                   |   |       |  |       |  |       | 54,600   | 155   | 52,200   | 150   | 49,400   | 140   | 46,400  | 130   |
| 955  | 13500               | 14 4                   |   |       |  |       |  |       | 58,000   | 180   | 55,400   | 170   | 52,800   | 160   | 50,200  | 150   |
| 990  | 14000               | 15 5                   |   |       |  |       |  |       |  |       | 59,000   | 195   | 56,400   | 185   | 53,800  | 175   |

| R.P.M. | Tip Speed<br>F.P.M. | S.N.D.<br>in<br>inches | Static Pressure<br>10" Water<br>5.78 ozs. per<br>sq. inch | Static Pressure<br>11" Water<br>6.36 ozs. per<br>sq. inch | Static Pressure<br>12" Water<br>6.93 ozs. per<br>sq. inch | Static Pressure<br>13" Water<br>7.51 ozs. per<br>sq. inch | Static Pressure<br>14" Water<br>8.09 ozs. per<br>sq. inch | Static Pressure<br>15" Water<br>8.67 ozs. per<br>sq. inch | Static Pressure<br>00" Water<br>0.00 ozs. per<br>sq. inch |     |
|--------|---------------------|------------------------|---|---|---|---|---|---|---|-----|
| 779    | 11000               | 9 57                   | 18,200  | 45  |   |   |   |   |   |     |
| 814    | 11500               | 10 5                   | 28,200  | 70  | 17,900  | 49  |   |   |   |     |
| 850    | 12000               | 11 4                   | 34,200  | 88  | 28,600  | 78  | 18,400  | 56  |   |     |
| 885    | 12500               | 12 4                   | 38,800  | 105   | 35,000  | 98  | 29,600  | 86  | 10,300  | 62  |
| 920    | 13000               | 13 4                   | 43,600  | 125   | 40,000  | 115   | 36,000  | 110   | 30,800  | 98  |
| 955    | 13500               | 14 4                   | 47,200  | 150   | 44,400  | 140   | 41,000  | 130   | 37,000  | 120 |
| 990    | 14000               | 15 5                   | 51,200  | 170   | 48,400  | 160   | 45,400  | 155   | 42,000  | 145 |

## Double Width

**When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances**

| P.M. | Tip<br>Speed<br>F.P.M. | S.N.D.<br>in<br>inches | Volume   | H. P. | Volume   | H. P. | Volume   | H. P. | Volume   | H. P. | Volume   | H. P. | Volume   | H. P. | Volume   | H. P. |
|------|------------------------|------------------------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|
|      |                        |                        | C.F.M.   |       | C.F.M.   |       | C.F.M.   |       | C.F.M.   |       | C.F.M.   |       | C.F.M.   |       | C.F.M.   |       |
|      |                        |                        | Static Pressure<br>1/2" Water<br>.072 ozs. per<br>sq. inch |       | Static Pressure<br>1/2" Water<br>.145 ozs. per<br>sq. inch |       | Static Pressure<br>3/4" Water<br>.217 ozs. per<br>sq. inch |       | Static Pressure<br>1/2" Water<br>.289 ozs. per<br>sq. inch |       | Static Pressure<br>3/4" Water<br>.361 ozs. per<br>sq. inch |       | Static Pressure<br>1/2" Water<br>.434 ozs. per<br>sq. inch |       | Static Pressure<br>3/4" Water<br>.506 ozs. per<br>sq. inch |       |
| 80   | 1400                   | 0 155                  | 5,380  | 0 185 |  |       |  |       |  |       |  |       |  |       |  |       |
| 102  | 1600                   | 0 202                  | 7,380  | 0 32  |  |       |  |       |  |       |  |       |  |       |  |       |
| 115  | 1800                   | 0 256                  | 9,120  | 0 48  | 5,180  | 0 32  |  |       |  |       |  |       |  |       |  |       |
| 127  | 2000                   | 0 316                  | 10,700   | 0 73  | 7,860  | 0 54  |  |       |  |       |  |       |  |       |  |       |
| 140  | 2200                   | 0 383                  | 12,200   | 0 97  | 9,880  | 0 80  | 6,260  | 0 57  |  |       |  |       |  |       |  |       |
| 153  | 2400                   | 0 456                  | 13,600   | 1 3   | 11,700   | 1 10  | 9,040  | 0 91  |  |       |  |       |  |       |  |       |
| 166  | 2600                   | 0 534                  | 15,000   | 1 7   | 13,300   | 1 50  | 11,100   | 1 30  | 8,240  | 1 00  |  |       |  |       |  |       |
| 178  | 2800                   | 0 620                  | 16,400   | 2 1   | 14,900   | 1 95  | 13,000   | 1 7   | 10,800   | 1 45  | 7,200  | 1 1   |  |       |  |       |
| 191  | 3000                   | 0 712                  | 17,900   | 2 7   |  |       | 14,700   | 2 2   | 12,900   | 1 95  | 10,500   | 1 7   | 5,820  | 1 1   |  |       |
| 204  | 3200                   | 0 810                  | 19,200   | 3 3   |  |       | 16,300   | 2 8   | 14,700   | 2 5   | 12,800   | 2 3   | 10,200   | 1 8   |  |       |
| 217  | 3400                   | 0 914                  | 20,000   | 4 0   |  |       | 18,000   | 3 5   | 16,600   | 3 2   | 14,700   | 2 9   | 12,800   | 2 6   | 10,300   | 2 2   |
| 229  | 3600                   | 1 02                   | 22,000   | 4 8   |  |       |  |       | 18,200   | 3 8   | 16,500   | 3 6   | 14,800   | 3 3   | 13,100   | 3 0   |
| 242  | 3800                   | 1 14                   | 23,600   | 5 6   |  |       |  |       | 19,800   | 1 8   | 18,400   | 4 4   | 16,800   | 4 1   | 15,300   | 3 8   |
| 255  | 4000                   | 1 27                   | 24,600   | 6 6   |  |       |  |       |  |       | 20,000   | 5 4   | 18,800   | 5 0   | 17,300   | 4 7   |
| 268  | 4200                   | 1 39                   | 26,000   | 7 6   |  |       |  |       |  |       | 21,800   | 6 4   | 20,000   | 6 2   | 19,200   | 5 6   |
| 280  | 4400                   | 1 53                   | 27,400   | 8 8   |  |       |  |       |  |       | 23,400   | 7 6   | 22,200   | 7 2   | 21,000   | 6 8   |
| 293  | 4600                   | 1 67                   | 28,800   | 10 0  |  |       |  |       |  |       |  |       | 23,800   | 8 5   | 22,800   | 8 0   |
| 306  | 4800                   | 1 82                   | 30,000   | 11 5  |  |       |  |       |  |       |  |       | 25,400   | 9 9   | 24,400   | 9 4   |
| 318  | 5000                   | 1 98                   | 31,400   | 13    |  |       |  |       |  |       |  |       |  |       | 26,000   | 11    |

| P.M. | Tip<br>Speed<br>F.P.M. | S.N.D.<br>in<br>inches | Static Pressure                       | Static Pressure                           | Static Pressure                           | Static Pressure                           | Static Pressure                       | Static Pressure                           | Static Pressure                       | Static Pressure |
|------|------------------------|------------------------|---------------------------------------|---|---|---|---------------------------------------|---|---------------------------------------|-----------------|
|      |                        |                        | 1" Water<br>.578 ozs. per<br>sq. inch | 1 1/2" Water<br>.723 ozs. per<br>sq. inch | 1 3/4" Water<br>.866 ozs. per<br>sq. inch | 1 1/2" Water<br>1.01 ozs. per<br>sq. inch | 2" Water<br>1.16 ozs. per<br>sq. inch | 2 1/2" Water<br>1.46 ozs. per<br>sq. inch | 3" Water<br>1.73 ozs. per<br>sq. inch |                 |
| 229  | 3600                   | 1 02                   | 10,400                                | 2 5                                       |   |   |                                       |   |                                       |                 |
| 242  | 3800                   | 1 14                   | 13,300                                | 3 4                                       |   |   |                                       |   |                                       |                 |
| 255  | 4000                   | 1 27                   | 15,700                                | 4 4                                       | 11,100                                    | 3 4                                       |                                       |   |                                       |                 |
| 268  | 4200                   | 1 39                   | 17,800                                | 5 3                                       | 14,200                                    | 4 5                                       |                                       |   |                                       |                 |
| 280  | 4400                   | 1 53                   | 19,700                                | 6 4                                       | 16,700                                    | 5 6                                       | 12,500                                | 4 6                                       |                                       |                 |
| 293  | 4600                   | 1 67                   | 21,600                                | 7 8                                       | 18,800                                    | 6 8                                       | 15,700                                | 6 0                                       | 9,400                                 | 4 1             |
| 306  | 4800                   | 1 82                   | 23,200                                | 8 9                                       | 20,800                                    | 8 1                                       | 18,100                                | 7 3                                       | 14,300                                | 6 2             |
| 318  | 5000                   | 1 98                   | 25,000                                | 10 5                                      | 22,400                                    | 9 4                                       | 20,200                                | 8 7                                       | 17,300                                | 7 7             |
| 334  | 5250                   | 2 18                   | 27,000                                | 12 5                                      | 25,000                                    | 11 5                                      | 22,800                                | 10 5                                      | 20,200                                | 9 7             |
| 350  | 5500                   | 2 39                   | 29,000                                | 15  | 27,200                                    | 14 0                                      | 25,200                                | 13 0                                      | 23,000                                | 12 0            |
| 366  | 5750                   | 2 61                   |                                       |   | 29,600                                    | 16 0                                      | 27,200                                | 15  | 25,400                                | 14 0            |
| 382  | 6000                   | 2 85                   |                                       |   | 31,200                                    | 18 5                                      | 29,600                                | 17  | 27,400                                | 16 5            |
| 398  | 6250                   | 3 09                   |                                       |   |   |   | 31,600                                | 21  | 30,000                                | 19 5            |
| 414  | 6500                   | 3 33                   |                                       |   |   |   | 33,600                                | 24  | 32,200                                | 23              |
| 430  | 6750                   | 3 60                   |                                       |   |   |   | 35,600                                | 28  | 34,200                                | 26              |
| 446  | 7000                   | 3 88                   |                                       |   |   |   |                                       |   | 36,200                                | 30              |
| 460  | 7250                   | 4 15                   |                                       |   |   |   |                                       |   | 38,200                                | 34              |
| 477  | 7500                   | 4 45                   |                                       |   |   |   |                                       |   |                                       |                 |
| 493  | 7750                   | 4 75                   |                                       |   |   |   |                                       |   |                                       |                 |
| 510  | 8000                   | 5 06                   |                                       |   |   |   |                                       |   |                                       |                 |
| 525  | 8250                   | 5 38                   |                                       |   |   |   |                                       |   |                                       |                 |
| 541  | 8500                   | 5 71                   |                                       |   |   |   |                                       |   |                                       |                 |
| 556  | 8750                   | 6 05                   |                                       |   |   |   |                                       |   |                                       |                 |
| 574  | 9000                   | 6 41                   |                                       |   |   |   |                                       |   |                                       |                 |

## 5' Steel Plate Fan—Design 2—Cont'd

**When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances.**

[illegible]

## Double Width

**When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances**

| R.P.M. | Tip Speed<br>F.P.M. | S.N.D.<br>in<br>inches | Volume   | H. P. | Volume   | H. P. | Volume   | H. P. | Volume   | H. P. | Volume   | H. P. | Volume   | H. P. | Volume   | H. P. |
|--------|---------------------|------------------------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|
|        |                     |                        | C.F.M.   |       | C.F.M.   |       | C.F.M.   |       | C.F.M.   |       | C.F.M.   |       | C.F.M.   |       | C.F.M.   |       |
|        |                     |                        | Static Pressure<br>1/4" Water<br>.072 oza. per<br>sq. inch |       | Static Pressure<br>1/4" Water<br>.145 oza. per<br>sq. inch |       | Static Pressure<br>3/8" Water<br>.217 oza. per<br>sq. inch |       | Static Pressure<br>1/2" Water<br>.289 oza. per<br>sq. inch |       | Static Pressure<br>5/8" Water<br>.361 oza. per<br>sq. inch |       | Static Pressure<br>3/4" Water<br>.434 oza. per<br>sq. inch |       | Static Pressure<br>7/8" Water<br>.506 oza. per<br>sq. inch |       |
| 81     | 1100                | 0 155                  | 6,520  | 0 22  |  |       |  |       |  |       |  |       |  |       |  |       |
| 93     | 1600                | 0 202                  | 8,920  | 0 38  |  |       |  |       |  |       |  |       |  |       |  |       |
| 104    | 1800                | 0 256                  | 11,000   | 0 58  | 6,280  | 0 38  |  |       |  |       |  |       |  |       |  |       |
| 116    | 2000                | 0 316                  | 12,900   | 0 88  | 9,500  | 0 66  |  |       |  |       |  |       |  |       |  |       |
| 127    | 2200                | 0 383                  | 14,700   | 1 20  | 11,900   | 0 97  | 7,600  | 0 69  |  |       |  |       |  |       |  |       |
| 139    | 2400                | 0 456                  | 16,500   | 1 6   | 14,100   | 1 35  | 10,900   | 1 10  |  |       |  |       |  |       |  |       |
| 150    | 2600                | 0 531                  | 18,100   | 2 0   | 16,100   | 1 8   | 13,500   | 1 55  | 9,960  | 1 25  |  |       |  |       |  |       |
| 162    | 2800                | 0 620                  | 19,900   | 2 5   | 18,000   | 2 1   | 15,700   | 2 1   | 13,000   | 1 75  | 8,800  | 1 35  |  |       |  |       |
| 174    | 3000                | 0 712                  | 21,800   | 3 3   |  |       | 17,900   | 2 7   | 15,700   | 2 4   | 12,700   | 2 0   | 7,040  | 1 3   |  |       |
| 185    | 3200                | 0 810                  | 23,200   | 2 0   |  |       | 19,800   | 3 4   | 17,800   | 3 1   | 15,500   | 2 7   | 12,400   | 2 3   |  |       |
| 197    | 3400                | 0 914                  | 25,000   | 4 9   |  |       | 21,800   | 4 3   | 20,000   | 3 9   | 17,800   | 3 5   | 15,500   | 3 0   | 12,400   | 2 7   |
| 208    | 3600                | 1 02                   | 26,600   | 5 9   |  |       |  |       | 22,000   | 4 6   | 20,000   | 4 4   | 18,000   | 4 0   | 15,800   | 3 6   |
| 220    | 3800                | 1 11                   | 28,400   | 6 8   |  |       |  |       | 24,000   | 5 9   | 22,400   | 5 4   | 20,400   | 5 0   | 18,600   | 4 6   |
| 232    | 4000                | 1 27                   | 29,800   | 8 0   |  |       |  |       |  |       | 24,400   | 6 6   | 22,800   | 6 1   | 21,000   | 5 7   |
| 243    | 4200                | 1 39                   | 31,100   | 9 2   |  |       |  |       |  |       | 26,400   | 7 8   | 24,800   | 7 4   | 23,200   | 6 8   |
| 255    | 4400                | 1 53                   | 34,200   | 11    |  |       |  |       |  |       | 28,400   | 9 2   | 26,800   | 8 7   | 25,400   | 8 2   |
| 266    | 4600                | 1 67                   | 34,800   | 12    |  |       |  |       |  |       |  |       | 28,800   | 10 5  | 27,600   | 9 7   |
| 278    | 4800                | 1 82                   | 36,100   | 14    |  |       |  |       |  |       |  |       | 30,600   | 12    | 29,600   | 11 5  |
| 289    | 5000                | 1 98                   | 38,000   | 16    |  |       |  |       |  |       |  |       |  |       | 31,600   | 13 5  |

| I.P.M. | Tip Speed<br>F.P.M. | S.N.D.<br>in<br>inches | Static Pressure                       | Static Pressure                           | Static Pressure                           | Static Pressure                           | Static Pressure                       | Static Pressure                           | Static Pressure                       | Static Pressure | Static Pressure |
|--------|---------------------|------------------------|---------------------------------------|---|---|---|---------------------------------------|---|---------------------------------------|-----------------|-----------------|
|        |                     |                        | 1" Water<br>.578 oza. per<br>sq. inch | 1 1/2" Water<br>.723 oza. per<br>sq. inch | 1 3/4" Water<br>.868 oza. per<br>sq. inch | 1 7/8" Water<br>1.01 oza. per<br>sq. inch | 2" Water<br>1.16 oza. per<br>sq. inch | 2 1/2" Water<br>1.46 oza. per<br>sq. inch | 3" Water<br>1.73 oza. per<br>sq. inch |                 |                 |
| 208    | 3600                | 1 02                   | 12,500                                | 3 1                                       |   |   |                                       |   |                                       |                 |                 |
| 220    | 3800                | 1 14                   | 16,100                                | 4 1                                       |   |   |                                       |   |                                       |                 |                 |
| 232    | 4000                | 1 27                   | 19,000                                | 5 3                                       | 13,400                                    | 4 1                                       |                                       |   |                                       |                 |                 |
| 243    | 4200                | 1 39                   | 21,600                                | 6 5                                       | 17,300                                    | 5 4                                       |                                       |   |                                       |                 |                 |
| 255    | 4400                | 1 53                   | 23,800                                | 7 8                                       | 20,200                                    | 6 8                                       | 15,100                                | 5 5                                       |                                       |                 |                 |
| 266    | 4600                | 1 67                   | 26,200                                | 9 3                                       | 22,800                                    | 8 2                                       | 19,000                                | 7 2                                       |                                       |                 |                 |
| 278    | 4800                | 1 82                   | 28,200                                | 11 0                                      | 25,000                                    | 9 8                                       | 22,000                                | 8 8                                       | 11,400                                | 5 0             |                 |
| 290    | 5000                | 1 98                   | 30,200                                | 12 5                                      | 27,000                                    | 11 5                                      | 24,000                                | 10 5                                      | 17,400                                | 7 4             |                 |
| 304    | 5250                | 2 18                   | 32,600                                | 15  |   |   |                                       |   |                                       |                 |                 |

**When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances**

527



## Double Width

**When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances**

528

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

[illegible]

Double Inlet

**6½' Steel Plate Fan—Design 2**

Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.                                   | H. P. | Volume C.F.M.                                    | H. P. | Volume C.F.M.                                   | H. P. | Volume C.F.M.                                    | H. P. | Volume C.F.M.                                   | H. P. | Volume C.F.M.                                    | H. P. | Volume C.F.M.                                   | H. P. |
|--------|------------------|------------------|---|-------|--|-------|---|-------|--|-------|---|-------|--|-------|---|-------|
|        |                  |                  | Static Pressure 1" Water .072 ozs. per sq. inch |       | Static Pressure 1½" Water .145 ozs. per sq. inch |       | Static Pressure 2" Water .217 ozs. per sq. inch |       | Static Pressure 2½" Water .289 ozs. per sq. inch |       | Static Pressure 3" Water .361 ozs. per sq. inch |       | Static Pressure 3½" Water .434 ozs. per sq. inch |       | Static Pressure 4" Water .506 ozs. per sq. inch |       |
| 69     | 1400             | 0 155            | 9,080   | 0 31  |  |       |   |       |  |       |   |       |  |       |   |       |
| 78     | 1600             | 0 202            | 12,400  | 0 53  |  |       |   |       |  |       |   |       |  |       |   |       |
| 88     | 1800             | 0 256            | 15,400  | 0 81  | 8,760  | 0 53  |   |       |  |       |   |       |  |       |   |       |
| 98     | 2000             | 0 316            | 18,000  | 1 20  | 13,200   | 0 92  |   |       |  |       |   |       |  |       |   |       |
| 108    | 2200             | 0 383            | 20,600  | 1 65  | 16,600   | 1 35  | 10,600  | 0 97  |  |       |   |       |  |       |   |       |
| 118    | 2400             | 0 456            | 23,000  | 2 2   | 19,700   | 1 9   | 15,300  | 1 5   |  |       |   |       |  |       |   |       |
| 127    | 2600             | 0 534            | 25,200  | 2 8   | 22,400   | 2 5   | 18,800  | 2 2   |  |       |   |       |  |       |   |       |
| 137    | 2800             | 0 620            | 27,600  | 3 5   | 25,200   | 3 3   | 22,000  | 2 9   | 13,900   | 1 7   |   |       |  |       |   |       |
| 147    | 3000             | 0 712            | 30,000  | 4 6   |  |       | 24,800  | 3 7   | 18,200   | 2 5   | 12,200  | 1 85  |  |       |   |       |
| 157    | 3200             | 0 810            | 32,400  | 5 5   |  |       | 27,600  | 4 8   | 21,800   | 3 3   | 17,700  | 2 8   | 9,800  | 1 85  |   |       |
| 167    | 3400             | 0 914            | 34,800  | 6 8   |  |       | 30,400  | 5 9   | 25,000   | 4 3   | 21,600  | 3 8   | 17,300   | 3 2   |   |       |
| 176    | 3600             | 1 02             | 37,000  | 8 0   |  |       |   |       | 28,000   | 5 1   | 21,800  | 4 8   | 21,600   | 4 4   | 17,300  | 3 7   |
| 186    | 3800             | 1 14             | 39,200  | 9 4   |  |       |   |       | 30,800   | 6 4   | 27,800  | 6 0   | 25,000   | 5 6   | 22,000  | 5 0   |
| 196    | 4000             | 1 27             | 41,400  | 11 0  |  |       |   |       | 33,100   | 8 1   | 31,200  | 7 5   | 28,100   | 7 0   | 25,800  | 6 4   |
| 206    | 4200             | 1 39             | 43,600  | 13 0  |  |       |   |       |  |       | 33,800  | 9 2   | 31,800   | 8 5   | 29,200  | 7 9   |
| 216    | 4400             | 1 53             | 46,200  | 15 0  |  |       |   |       |  |       | 36,600  | 11    | 34,600   | 10 5  | 32,400  | 9 5   |
| 225    | 4600             | 1 67             | 48,200  | 17 0  |  |       |   |       |  |       | 39,100  | 13    | 37,100   | 12    | 35,400  | 11 5  |
| 235    | 4800             | 1 82             | 50,600  | 19 5  |  |       |   |       |  |       |   |       | 40,200   | 14    | 38,200  | 13 5  |
| 245    | 5000             | 1 98             | 52,800  | 22    |  |       |   |       |  |       |   |       | 42,800   | 17    | 41,000  | 16    |
|        |                  |                  |   |       |  |       |   |       |  |       |   |       |  |       | 43,800  | 19    |
|        |                  |                  |   |       |  |       |   |       |  |       |   |       |  |       |   |       |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 ozs. per sq. inch |       | Static Pressure 1½" Water .723 ozs. per sq. inch |       | Static Pressure 2" Water .866 ozs. per sq. inch |       | Static Pressure 2½" Water 1.01 ozs. per sq. inch |       | Static Pressure 3" Water 1.16 ozs. per sq. inch |       | Static Pressure 3½" Water 1.45 ozs. per sq. inch |       | Static Pressure 4" Water 1.73 ozs. per sq. inch |       |
| 176    | 3600             | 1 02             | 17,400  | 4 3   |  |       |   |       |  |       |   |       |  |       |   |       |
| 186    | 3800             | 1 14             | 22,400  | 5 8   |  |       |   |       |  |       |   |       |  |       |   |       |
| 196    | 4000             | 1 27             | 26,600  | 7 3   | 18,700   | 5 7   |   |       |  |       |   |       |  |       |   |       |
| 206    | 4200             | 1 39             | 30,000  | 9 0   | 24,000   | 7 6   |   |       |  |       |   |       |  |       |   |       |
| 216    | 4400             | 1 53             | 33,200  | 11 0  | 28,200   | 9 5   | 21,000  | 8 0   |  |       |   |       |  |       |   |       |
| 225    | 4600             | 1 67             | 36,400  | 13 0  | 31,800   | 11 5  | 26,400  | 10 0  | 15,800   | 7 0   |   |       |  |       |   |       |
| 235    | 4800             | 1 82             | 39,200  | 15 0  | 35,000   | 13 5  | 30,400  | 12 0  | 24,200   | 10 5  |   |       |  |       |   |       |
| 245    | 5000             | 1 98             | 42,000  | 17 5  | 37,600   | 16    | 34,000  | 14 5  | 29,200   | 13 0  |   |       |  |       |   |       |
| 257    | 5250             | 2 18             | 45,400  | 21    | 42,000   | 19    | 38,400  | 18    | 34,200   | 16 5  | 21,600  | 10 5  |  |       |   |       |
| 269    | 5500             | 2 39             | 48,800  | 25    | 45,800   | 23    | 42,400  | 21    | 38,600   | 20    | 29,000  | 11 5  |  |       |   |       |
| 282    | 5750             | 2 61             |   |       | 49,200   | 27    | 46,000  | 25    | 42,800   | 24    | 34,400  | 18    | 18,800   | 13    |   |       |
| 294    | 6000             | 2 85             |   |       | 52,600   | 32    | 49,800  | 30    | 46,200   | 28    | 39,000  | 22    | 29,200   | 18    |   |       |
| 306    | 6250             | 3 09             |   |       |  |       |   |       |  |       | 43,200  | 26    | 35,200   | 23    |   |       |
| 318    | 6500             | 3 33             |   |       |  |       | 53,200  | 35    | 50,400   | 33    | 47,400  | 31    | 40,400   | 27    | 19,200  | 14 5  |
| 330    | 6750             | 3 60             |   |       |  |       | 56,600  | 40    | 54,000   | 38    | 51,000  | 36    | 44,600   | 32    | 30,800  | 23    |
| 340    | 7000             | 3 88             |   |       |  |       | 60,000  | 46    | 57,600   | 44    | 54,800  | 41    | 49,200   | 38    | 37,200  | 28    |
| 354    | 7250             | 4 15             |   |       |  |       |   |       | 61,000   | 50    | 58,600  | 48    | 53,200   | 44    | 42,400  | 34    |
| 368    | 7500             | 4 45             |   |       |  |       |   |       | 64,400   | 58    |   |       | 57,000   | 50    | 47,000  | 40    |
| 379    | 7750             | 4 75             |   |       |  |       |   |       |  |       | 61,800  | 54    | 60,600   | 56    | 51,400  | 46    |
| 392    | 8000             | 5 06             |   |       |  |       |   |       |  |       | 65,400  | 62    | 64,400   | 64    | 55,400  | 52    |
| 403    | 8250             | 5 38             |   |       |  |       |   |       |  |       | 68,800  | 70    | 67,600   | 74    | 59,400  | 60    |
| 417    | 8500             | 5 71             |   |       |  |       |   |       |  |       |   |       | 71,200   | 82    | 63,400  | 68    |
| 428    | 8750             | 6 05             |   |       |  |       |   |       |  |       |   |       | 74,800   | 96    | 60,800  | 76    |
| 441    | 9000             | 6 41             |   |       |  |       |   |       |  |       |   |       | 78,000   | 100   | 70,000  | 86    |
|        |                  |                  |   |       |  |       |   |       |  |       |   |       |  |       | 74,000  | 96    |
|        |                  |                  |   |       |  |       |   |       |  |       |   |       |  |       | 77,100  | 105   |

## Double Inlet 6 $\frac{1}{2}$ ' Steel Plate Fan—Design 2—Cont'd Double Width

**When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances**

[illegible]

## Double Width

**When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances**

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M. H. P. Static Pressure 1/2" Water .072 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1/4" Water .145 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 3/8" Water .217 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1/2" Water .289 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 3/4" Water .361 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1" Water .434 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1 1/4" Water .506 ozs. per sq. inch |
|--------|------------------|------------------|---|---|---|---|---|---|---|
| 64     | 1400             | 0 155            | 10,600 0 36   |   |   |   |   |   |   |
| 73     | 1600             | 0 202            | 14,500 0 62   |   |   |   |   |   |   |
| 82     | 1800             | 0 256            | 17,900 0 94   | 10,200 0 62   |   |   |   |   |   |
| 91     | 2000             | 0 316            | 20,800 1 40   | 15,400 1 05   |   |   |   |   |   |
| 100    | 2200             | 0 383            | 23,800 1 90   | 19,300 1 6  | 12,300 1 1  |   |   |   |   |
| 100    | 2400             | 0 456            | 26,800 2 50   | 23,000 2 2  | 17,700 1 8  |   |   |   |   |
| 118    | 2600             | 0 534            | 29,400 3 30   | 26,000 2 9  | 21,800 2 5  | 16,100 2 0  |   |   |   |
| 127    | 2800             | 0 620            | 32,200 4 1  | 29,200 3 8  | 25,400 3 3  | 21,200 2 9  | 14,200 2 2  |   |   |
| 136    | 3000             | 0 712            | 35,000 5 3  |   | 29,000 4 4  | 25,400 3 8  | 20,600 3 3  | 2 1   |   |
| 145    | 3200             | 0 810            | 37,600 6 4  |   | 32,200 5 5  | 29,000 5 0  | 25,000 4 4  | 20,200 3 7  |   |
| 155    | 3400             | 0 914            | 40,400 8 0  |   | 35,400 6 9  | 32,400 6 3  | 28,800 5 6  | 25,200 5 1  | 20,200 4 3  |
| 164    | 3600             | 1 02             | 43,000 9 0  |   |   | 35,800 7 5  | 33,800 7 0  | 29,200 6 5  | 25,600 5 8  |
| 173    | 3800             | 1 14             | 45,800 11 0   |   |   | 38,800 9 5  | 36,200 8 7  | 33,000 8 1  | 30,000 7 5  |
| 182    | 4000             | 1 27             | 48,200 13 0   |   |   |   | 39,400 10 5   | 36,800 9 9  | 33,800 9 2  |
| 191    | 4200             | 1 39             | 50,800 15 0   |   |   |   | 42,600 13   | 40,200 12 0   | 37,600 11 0   |
| 200    | 4400             | 1 53             | 53,600 17 5   |   |   |   | 45,800 15   | 43,600 14 0   | 41,200 13 0   |
| 209    | 4600             | 1 67             | 56,200 20   |   |   |   |   | 46,600 16 5   | 44,400 16 0   |
| 218    | 4800             | 1 82             | 58,800 23   |   |   |   |   | 49,600 19   | 47,600 18 5   |
| 227    | 5000             | 1 98             | 61,400 26   |   |   |   |   |   | 51,000 22   |
|        |                  |                  |   |   |   |   |   |   |   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1" Water .578 ozs. per sq. inch                       | Static Pressure 1 1/4" Water .723 ozs. per sq. inch                   | Static Pressure 1 1/2" Water .866 ozs. per sq. inch                   | Static Pressure 1 3/4" Water 1.01 ozs. per sq. inch                   | Static Pressure 2" Water 1.16 ozs. per sq. inch                       | Static Pressure 2 1/2" Water 1.45 ozs. per sq. inch                 | Static Pressure 3" Water 1.73 ozs. per sq. inch                         |
| 164    | 3600             | 1.02             | 20,200 5.0  |   |   |   |   |   |   |
| 173    | 3800             | 1.14             | 26,000 6.7  |   |   |   |   |   |   |
| 182    | 4000             | 1.27             | 30,800 8.5  | 21,800 6.6  |   |   |   |   |   |
| 191    | 4200             | 1.39             | 34,800 10.5   | 28,000 8.8  |   |   |   |   |   |
| 200    | 4400             | 1.53             | 38,600 12.5   | 32,800 11.0   | 24,400 8.9  |   |   |   |   |
| 209    | 4600             | 1.67             | 42,200 15.0   | 37,000 13.5   | 30,800 11.5   | 18,400 8.0  |   |   |   |
| 218    | 4800             | 1.82             | 45,600 17.5   | 40,800 16.0   | 35,400 14.0   | 28,200 12.0   |   |   |   |
| 228    | 5000             | 1.98             | 48,800 20   | 43,600 18.5   | 39,600 17   | 34,000 15.0   | 25,200 12   |   |   |
| 239    | 5250             | 2 18             | 52,800 25   | 49,000 22   | 44,600 21   | 39,600 19   | 33,600 17   |   |   |
| 250    | 5500             | 2 39             | 56,800 29   | 53,200 27   | 49,200 25   | 45,000 23   | 40,000 21   | 22,000 15   |   |
| 261    | 5750             | 2 61             |   | 57,200 32   | 53,400 29   | 49,600 28   | 45,400 26   | 33,800 21   |   |
| 273    | 6000             | 2 85             |   | 61,200 37   | 58,000 35   | 53,800 32   | 50,200 31   | 41,000 26   | 22,400 17   |
| 284    | 6250             | 3 09             |   |   | 62,000 41   | 58,600 38   | 55,000 36   | 46,800 32   | 35,800 26   |
| 296    | 6500             | 3 33             |   |   | 65,800 47   | 62,800 44   | 59,400 42   | 52,000 38   | 43,200 33   |
| 307    | 6750             | 3 60             |   |   | 69,800 54   | 67,000 50   | 63,600 48   | 57,200 44   | 49,200 39   |
| 318    | 7000             | 3 88             |   |   |   | 71,000 58   | 68,000 56   | 61,800 50   | 54,800 46   |
| 330    | 7250             | 4 15             |   |   |   |   |   |   |   |

## Double Width

**When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances**

[illegible]

Double Inlet

**7½' Steel Plate Fan—Design 2**

Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.<br>Static Pressure 1½" Water .072 oza. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure 1½" Water .145 oza. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure 1½" Water .217 oza. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure 1½" Water .289 oza. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure 1½" Water .361 oza. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure 1½" Water .434 oza. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure 1½" Water .506 oza. per sq. inch | H. P. |
|--------|------------------|------------------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|
| 59     | 1400             | 0 155            | 12,100  | 0 41  |   |       |   |       |   |       |   |       |   |       |   |       |
| 68     | 1600             | 0 202            | 17,600  | 0 71  |   |       |   |       |   |       |   |       |   |       |   |       |
| 77     | 1800             | 0 256            | 20,600  | 1 10  | 11,600  | 0 71  |   |       |   |       |   |       |   |       |   |       |
| 85     | 2000             | 0 316            | 24,000  | 1 45  | 17,700  | 1 2   |   |       |   |       |   |       |   |       |   |       |
| 94     | 2200             | 0 383            | 27,600  | 2 2   | 22,200  | 1 8   | 11,100  | 1 3   |   |       |   |       |   |       |   |       |
| 102    | 2400             | 0 456            | 30,800  | 2 9   | 26,100  | 2 5   | 20,400  | 2 0   |   |       |   |       |   |       |   |       |
| 111    | 2600             | 0 531            | 33,800  | 3 8   | 30,000  | 3 4   | 25,200  | 2 9   | 18,500  | 2 3   |   |       |   |       |   |       |
| 119    | 2800             | 0 620            | 37,000  | 4 7   | 33,600  | 4 4   | 29,400  | 3 8   | 24,400  | 3 3   | 16,300  | 2 5   |   |       |   |       |
| 127    | 3000             | 0 712            | 40,200  | 6 1   |   |       | 33,400  | 5 0   | 29,200  | 4 1   | 23,600  | 3 8   | 13,100  | 2 5   |   |       |
| 136    | 3200             | 0 810            | 43,200  | 7 1   |   |       | 37,000  | 6 4   | 33,200  | 5 7   | 28,800  | 5 1   | 23,200  | 4 3   |   |       |
| 144    | 3400             | 0 914            | 46,400  | 9 1   |   |       | 40,600  | 7 9   | 37,100  | 7 2   | 33,200  | 6 5   | 29,000  | 5 8   | 23,200  | 5 0   |
| 153    | 3600             | 1 02             | 49,100  | 11 0  |   |       |   |       | 41,200  | 8 6   | 37,200  | 8 1   | 33,400  | 7 5   | 29,400  | 6 7   |
| 161    | 3800             | 1 14             | 52,600  | 12 5  |   |       |   |       | 44,800  | 11    |   |       | 41,600  | 10 0  | 38,000  | 8 6   |
| 170    | 4000             | 1 27             | 55,100  | 15    |   |       |   |       |   |       |   |       | 45,200  | 12 0  | 42,100  | 10 5  |
| 178    | 4200             | 1 39             | 58,100  | 17    |   |       |   |       |   |       |   |       | 48,800  | 14 5  | 46,200  | 13    |
| 187    | 4400             | 1 53             | 61,600  | 20    |   |       |   |       |   |       |   |       | 52,600  | 17    | 50,200  | 15    |
| 195    | 4600             | 1 67             | 64,600  | 23    |   |       |   |       |   |       |   |       |   |       | 53,600  | 18    |
| 204    | 4800             | 1 82             | 67,600  | 26    |   |       |   |       |   |       |   |       |   |       | 57,200  | 21    |
| 212    | 5000             | 1 98             | 70,600  | 30    |   |       |   |       |   |       |   |       |   |       |   | 25    |
|        |                  |                  |   |       |   |       |   |       |   |       |   |       |   |       |   |       |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1½" Water .578 oza. per sq. inch                  | H. P. | Static Pressure 1½" Water .723 oza. per sq. inch                  | H. P. | Static Pressure 1½" Water .868 oza. per sq. inch                  | H. P. | Static Pressure 1½" Water 1.01 oza. per sq. inch                  | H. P. | Static Pressure 1½" Water 1.16 oza. per sq. inch                  | H. P. | Static Pressure 1½" Water 1.45 oza. per sq. inch                  | H. P. | Static Pressure 1½" Water 1.73 oza. per sq. inch                  | H. P. |
| 153    | 3600             | 1 02             | 23,400  | 5 7   |   |       |   |       |   |       |   |       |   |       |   |       |
| 161    | 3800             | 1 14             | 30,000  | 7 7   |   |       |   |       |   |       |   |       |   |       |   |       |
| 170    | 4000             | 1 27             | 35,400  | 9 8   | 25,000  | 7 6   |   |       |   |       |   |       |   |       |   |       |
| 178    | 4200             | 1 39             | 40,000  | 12 0  | 32,200  | 10 0  |   |       |   |       |   |       |   |       |   |       |
| 187    | 4400             | 1 53             | 44,400  | 14 5  | 37,600  | 12 5  | 28,200  | 10 0  |   |       |   |       |   |       |   |       |
| 195    | 4600             | 1 67             | 48,600  | 16    | 42,400  | 15 5  | 35,400  | 13 5  | 21,300  | 8 6   |   |       |   |       |   |       |
| 204    | 4800             | 1 82             | 52,400  | 20    | 46,800  | 18    | 40,800  | 16 5  | 32,400  | 14 0  |   |       |   |       |   |       |
| 212    | 5000             | 1 98             | 56,200  | 23    | 50,400  | 21    | 45,000  | 19 5  | 39,000  | 17 5  |   |       |   |       |   |       |
| 223    | 5250             | 2 18             | 60,800  | 28    | 56,400  | 26    | 51,200  | 24    | 45,600  | 22    | 38,800  | 19 5  |   |       |   |       |
| 233    | 5500             | 2 39             | 65,200  | 33    | 61,200  | 31    | 56,400  | 29    | 51,600  | 25    | 46,000  | 24    | 25,200  | 17 5  |   |       |
| 244    | 5750             | 2 61             |   |       | 65,600  | 36    | 61,400  | 34    | 57,200  | 32    | 52,200  | 30    | 39,000  | 24    |   |       |
| 255    | 6000             | 2 85             |   |       | 70,400  | 42    | 66,600  | 40    | 61,800  | 37    | 57,800  | 35    | 47,200  | 30    | 25,600  | 19 5  |
| 265    | 6250             | 3 09             |   |       |   |       | 71,200  | 47    | 67,400  | 44    | 63,400  | 42    | 54,000  | 37    | 41,200  | 30    |
| 276    | 6500             | 3 33             |   |       |   |       | 75,800  | 54    | 72,400  | 52    | 68,200  | 48    | 59,600  | 43    | 49,600  | 38    |
| 287    | 6750             | 3 60             |   |       |   |       | 80,200  | 62    | 77,000  | 58    | 73,200  | 56    | 65,600  | 50    | 56,800  | 45    |
| 297    | 7000             | 3 88             |   |       |   |       |   |       | 81,600  | 68    | 78,400  | 64    | 71,000  | 58    | 62,800  | 54    |
| 307    | 7250             | 4 15             |   |       |   |       |   |       | 86,000  | 76    | 82,600  | 72    | 78,200  | 66    | 68,600  | 62    |
| 318    | 7500             | 4 45             |   |       |   |       |   |       |   |       | 87,400  | 84    | 81,000  | 76    | 74,200  | 70    |
| 328    | 7750             | 4 75             |   |       |   |       |   |       |   |       | 92,000  | 94    | 86,000  | 86    | 79,400  | 80    |
| 340    | 8000             | 5 06             |   |       |   |       |   |       |   |       |   |       | 90,600  | 98    | 84,600  | 90    |
| 350    | 8250             | 5 38             |   |       |   |       |   |       |   |       |   |       | 95,000  | 105   | 89,400  | 100   |
| 361    | 8500             | 5 71             |   |       |   |       |   |       |   |       |   |       | 100,000   | 120   | 93,800  | 115   |
| 371    | 8750             | 6 05             |   |       |   |       |   |       |   |       |   |       | 104,000   | 130   | 99,000  | 130   |
| 382    | 9000             | 6 41             |   |       |   |       |   |       |   |       |   |       |   |       | 103,000   | 140   |





## Double Width

[illegible]

**Double Inlet 8' Steel Plate Fan—Design 2—Cont'd Double Width**  
When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

[illegible]

## Double Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

[illegible]

## Double Inlet 8½' Steel Plate Fan—Design 2—Cont'd Double Width

**When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances**

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.<br>Static Pressure<br>3½" Water<br>2.02 ozs. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure<br>4" Water<br>2.31 ozs. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure<br>5" Water<br>2.89 ozs. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure<br>6" Water<br>3.47 ozs. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure<br>7" Water<br>4.04 ozs. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure<br>8" Water<br>4.62 ozs. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure<br>9" Water<br>5.2 ozs. per sq. inch | H. P. |
|--------|------------------|------------------|---|-------|--|-------|--|-------|--|-------|--|-------|--|-------|---|-------|
| 242    | 6500             | 3 33             | 36,400  | 32    |  |       |  |       |  |       |  |       |  |       |   |       |
| 253    | 6750             | 3 60             | 56,800  | 48    |  |       |  |       |  |       |  |       |  |       |   |       |
| 262    | 7000             | 3 88             | 67,800  | 60    | 45,200   | 44    |  |       |  |       |  |       |  |       |   |       |
| 271    | 7250             | 4 15             | 77,000  | 72    | 62,000   | 60    |  |       |  |       |  |       |  |       |   |       |
| 281    | 7500             | 4 45             | 83,000  | 84    | 73,200   | 74    |  |       |  |       |  |       |  |       |   |       |
| 290    | 7750             | 4 75             | 92,400  | 96    | 82,600   | 88    | 43,000   | 54    |  |       |  |       |  |       |   |       |
| 299    | 8000             | 5 06             | 100,000   | 110   | 90,600   | 100   | 64,200   | 78    |  |       |  |       |  |       |   |       |
| 308    | 8250             | 5 37             | 107,000   | 120   | 98,400   | 115   | 76,200   | 94    |  |       |  |       |  |       |   |       |
| 318    | 8500             | 5 71             | 114,000   | 135   | 105,000  | 130   | 86,200   | 110   | 47,200   | 70    |  |       |  |       |   |       |
| 327    | 8750             | 6 05             | 120,000   | 150   | 112,000  | 145   | 95,200   | 130   | 68,400   | 110   |  |       |  |       |   |       |
| 337    | 9000             | 6 41             | 126,000   | 170   | 119,000  | 160   | 103,000  | 145   | 81,400   | 125   |  |       |  |       |   |       |
| 356    | 9500             | 7 14             | 138,000   | 210   | 131,000  | 195   | 118,000  | 180   | 102,000  | 160   | 78,200   | 130   |  |       |   |       |
| 374    | 10000            | 7 91             | 150,000   | 250   | 144,000  | 240   | 121,000  | 220   | 117,000  | 200   | 100,000  | 180   | 73,200   | 140   |   |       |
| 394    | 10500            | 8 72             |   |       | 156,000  | 290   | 145,000  | 270   | 132,000  | 250   | 118,000  | 220   | 100,000  | 200   | 68,000  | 150   |
| 412    | 11000            | 9 57             |   |       | 169,000  | 340   | 157,000  | 320   | 145,000  | 290   | 133,000  | 270   | 119,000  | 250   | 99,400  | 220   |
| 431    | 11500            | 10 5             |   |       |  |       | 169,000  | 370   | 157,000  | 350   | 147,000  | 330   | 134,000  | 310   | 119,000   | 280   |
| 450    | 12000            | 11 4             |   |       |  |       | 180,000  | 440   | 170,000  | 410   | 160,000  | 380   | 149,000  | 360   | 138,000   | 340   |
| 468    | 12500            | 12 4             |   |       |  |       |  |       | 182,000  | 480   | 173,000  | 450   | 162,000  | 420   | 151,000   | 400   |
| 487    | 13000            | 13 4             |   |       |  |       |  |       | 194,000  | 550   | 185,000  | 520   | 176,000  | 500   | 165,000   | 470   |
| 507    | 13500            | 14 4             |   |       |  |       |  |       | 206,000  | 640   | 197,000  | 610   | 188,000  | 570   | 178,000   | 540   |
| 525    | 14000            | 15 5             |   |       |  |       |  |       |  |       | 210,000  | 690   | 200,000  | 660   | 192,000   | 620   |

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 10" Water<br>5.78 ozs. per sq. inch | Static Pressure 11" Water<br>6.36 ozs. per sq. inch | Static Pressure 12" Water<br>6.93 ozs. per sq. inch | Static Pressure 13" Water<br>7.51 ozs. per sq. inch | Static Pressure 14" Water<br>8.09 ozs. per sq. inch | Static Pressure 15" Water<br>8.67 ozs. per sq. inch | Static Pressure 00" Water<br>0.00 ozs. per sq. inch |     |         |     |
|--------|------------------|------------------|---|---|---|---|---|---|---|-----|---------|-----|
| 412    | 11000            | 9 57             | 64,800  | 160   |   |   |   |   |   |     |         |     |
| 431    | 11500            | 10 5             | 101,000   | 250   | 63,600  | 175   |   |   |   |     |         |     |
| 450    | 12000            | 11 4             | 122,000   | 310   | 102,000   | 280   | 65,600  | 195   |   |     |         |     |
| 468    | 12500            | 12 4             | 138,000   | 380   | 124,000   | 350   | 105,000   | 310   | 68,400  | 220 |         |     |
| 487    | 13000            | 13 4             | 154,000   | 450   | 142,000   | 420   | 128,000   | 390   | 109,000   | 350 | 74,200  | 260 |
| 507    | 13500            | 14 4             | 168,000   | 520   | 158,000   | 500   | 146,000   | 470   | 132,000   | 430 | 113,000 | 390 |
| 525    | 14000            | 15 5             | 182,000   | 600   | 172,000   | 570   | 162,000   | 550   | 150,000   | 510 | 130,000 | 480 |

## Double Width

[illegible]

## Double Inlet 9' Steel Plate Fan—Design 2—Cont'd Double Width

**When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances**

[illegible]



**Double Inlet 9½' Steel Plate Fan—Design 2—Cont'd Double Width**  
**When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances.**

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M. H. P. Static Pressure 3½" Water 2.02 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 4" Water 2.31 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 5" Water 2.89 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 6" Water 3.47 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 7" Water 4.04 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 8" Water 4.62 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 9" Water 5.2 ozs. per sq. inch |
|--------|------------------|------------------|--|---|---|---|---|---|--|
| 218    | 6500             | 3 33             | 45,800 40  |   |   |   |   |   |  |
| 226    | 6750             | 3 60             | 71,200 60  |   |   |   |   |   |  |
| 234    | 7000             | 3 88             | 85,200 76  | 56,800 56   |   |   |   |   |  |
| 242    | 7250             | 4 15             | 96,600 90  | 77,800 76   |   |   |   |   |  |
| 251    | 7500             | 4 45             | 107,000 105  | 92,000 92   |   |   |   |   |  |
| 260    | 7750             | 4 75             | 116,000 120  | 104,000 110   | 54,000 68   |   |   |   |  |
| 268    | 8000             | 5 06             | 125,000 135  | 114,000 130   | 80,600 98   |   |   |   |  |
| 276    | 8250             | 5 37             | 134,000 150  | 124,000 145   | 95,600 120  |   |   |   |  |
| 285    | 8500             | 5 71             | 143,000 170  | 132,000 160   | 108,000 140   | 59,200 90   |   |   |  |
| 293    | 8750             | 6 05             | 150,000 190  | 140,000 180   | 119,000 160   | 86,000 130  |   |   |  |
| 301    | 9000             | 6 41             | 158,000 210  | 149,000 200   | 129,000 180   | 102,000 150   |   |   |  |
| 318    | 9500             | 7 14             | 174,000 260  | 164,000 250   | 148,000 230   | 127,000 200   | 98,000 170  |   |  |
| 335    | 10000            | 7 91             | 189,000 320  | 181,000 300   | 165,000 280   | 147,000 250   | 126,000 220   | 91,800 180  |  |
| 352    | 10500            | 8 72             |  | 196,000 360   | 182,000 340   | 166,000 310   | 148,000 280   | 126,000 250   | 95,400 190   |
| 369    | 11000            | 9 57             |  | 212,000 430   | 197,000 400   | 183,000 370   | 167,000 340   | 149,000 320   | 125,000 280  |
| 385    | 11500            | 10 5             |  |   | 212,000 470   | 198,000 440   | 184,000 410   | 169,000 380   | 150,000 350  |
| 402    | 12000            | 11 4             |  |   | 226,000 550   | 214,000 520   | 200,000 480   | 188,000 460   | 171,000 430  |
| 418    | 12500            | 12 4             |  |   |   | 228,000 600   | 216,000 560   | 204,000 530   | 190,000 510  |
| 436    | 13000            | 13 4             |  |   |   | 244,000 660   | 232,000 620   | 220,000 600   | 208,000 590  |
| 452    | 13500            | 14 4             |  |   |   | 258,000 810   | 248,000 760   | 236,000 710   | 224,000 680  |
| 469    | 14000            | 15 5             |  |   |   |   | 262,000 870   | 252,000 820   | 240,000 780  |

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 10" Water 5.78 ozs. per sq. inch | Static Pressure 11" Water 6.36 ozs. per sq. inch | Static Pressure 12" Water 6.93 ozs. per sq. inch | Static Pressure 13" Water 7.51 ozs. per sq. inch | Static Pressure 14" Water 8.09 ozs. per sq. inch | Static Pressure 15" Water 8.67 ozs. per sq. inch | Static Pressure 16" Water 9.25 ozs. per sq. inch |
|--------|------------------|------------------|--|--|--|--|--|--|--|
| 369    | 11000            | 9 57             | 81,400 200                                       |  |  |  |  |  |  |
| 385    | 11500            | 10 5             | 126,000 310                                      | 80,000 220                                       |  |  |  |  |  |
| 402    | 12000            | 11 4             | 153,000 390                                      | 128,000 350                                      | 82,200 250                                       |  |  |  |  |
| 418    | 12500            | 12 4             | 174,000 470                                      | 156,000 440                                      | 132,000 390                                      | 86,000 280                                       |  |  |  |
| 436    | 13000            | 13 4             | 193,000 560                                      | 178,000 530                                      | 161,000 490                                      | 137,000 440                                      | 93,000 330                                       |  |  |
| 452    | 13500            | 14 4             | 212,000 650                                      | 198,000 620                                      | 183,000 580                                      | 165,000 540                                      | 143,000 490                                      | 103,000 380                                      |  |
| 469    | 14000            | 15 5             | 228,000 750                                      | 216,000 720                                      | 202,000 660                                      | 188,000 640                                      | 171,000 600                                      | 148,000 540                                      |  |



## Double Width

**When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances**

[illegible]

### Double Inlet 10' Steel Plate Fan—Design 2—Cont'd Double Width

**When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances**

[illegible]

## Double Width

[illegible]

### Double Inlet 10' Steel Plate Fan—Design 2—Cont'd Double Width

**When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances**

[illegible]

### Double Width

**When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances**

[illegible]

## Double Width

**When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances**

[illegible]



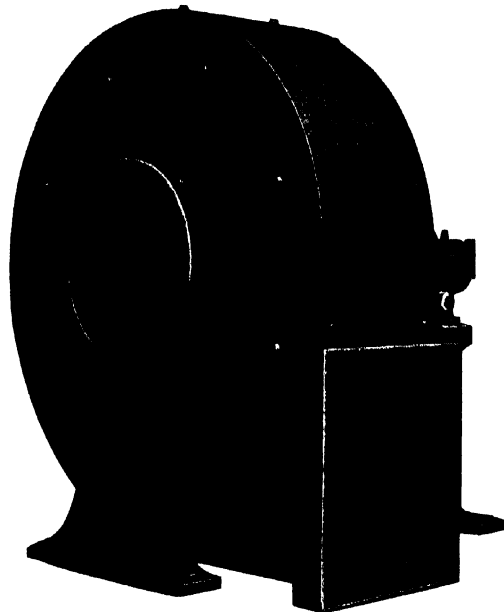
**REVERSIBLE AND CONVERTIBLE  
STEEL PLATE EXHAUSTERS WITH  
MULTIBLADE WHEEL**

**Design 6**

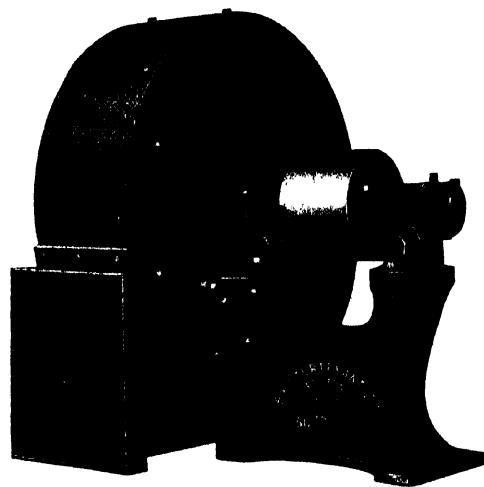
**Dimensions, Capacities, Horse Powers**







Reversible and Convertible Steel Plate Exhauster with  
Multiblade Wheel—Design 6. Inlet Side



Reversible and Convertible Steel Plate Exhauster with  
Multiblade Wheel—Design 6. Pulley Side

# REVERSIBLE AND CONVERTIBLE STEEL PLATE EXHAUSTER WITH MULTIBLADE WHEEL—DESIGN 6

## SPECIFICATIONS

There shall be furnished a . . . . . inch Design 6 Steel Plate Planing Mill Exhauster. It shall be Reversible and Convertible as to hand and discharge. The inlet shall be . . . inches in diameter, and the outlet . . . . . inches by . . . . . inches.

**Housing.** The housing shall be made of steel plate side sheets of No. 13 gauge secured to cast-iron cone and inlet side plates by tap bolts threaded into an annular steel ring which is riveted to the inside of the steel plate side sheet.

The roundabout or scroll sheet shall be secured to the scroll angle by cap screws spaced five inches on centers.

**Wheel.** Blast wheel shall be of Multiblade type containing 18 floats, formed and curved in the direction of rotation. These floats shall be placed between annular side sheets. The wheel shall be carried upon a spider formed of steel T-arms cast into a hub. The wheel shall be . . . . . inches in diameter. It shall be accurately balanced during and after construction to insure perfect running balance.

**Shaft.** The shaft shall be made of the best open hearth steel turned and ground to size after keyways have been cut. It is to be . . . inches in diameter.

**Bearings.** The bearings are to be of the ring oiling, self-aligning type, lined with Sturtevant white metal, and shall be of extra length to give ample bearing surface.

# REVERSIBLE AND CONVERTIBLE STEEL PLATE EXHAUSTER WITH MULTIBLADE WHEEL—DESIGN 6

## EXPLANATION OF SPECIFICATION REQUIREMENTS

**Housing.** The feature of this type is the ease with which it can be changed from any hand or discharge to any other hand or discharge. This is done by removing a few bolts, turning the casing around and then replacing the bolts.

The housing is so shaped as to give large capacity and high efficiency.

**Wheel.** The forwardly curved blades of the blast wheel give a comparatively high pressure for any given peripheral speed of the wheel. This fan is therefore suited for operation against high pressures.

## **Reversible and Convertible Steel Plate Exhausters with Multiblade Wheel Design 6**

### **EXPLANATION OF TABLES**

These fans were originally designed for use in connection with cotton gin apparatus but they are suitable for any work within their capacities. The general explanation in the front of this book applies to the following tables.

# **Reversible and Convertible Steel Plate Exhauster with Multiblade Wheel—Design 6**

## **APPROXIMATE WEIGHTS**

| <b>Size</b> | <b>Weight not packed</b> |
|-------------|--------------------------|
| 30          | 328                      |
| 35          | 470                      |
| 40          | 602                      |
| 45          | 800                      |
| 50          | 890                      |

Single  
Inlet

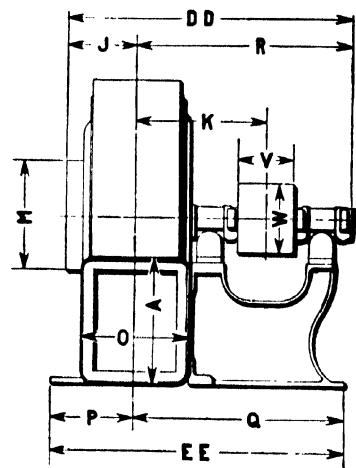
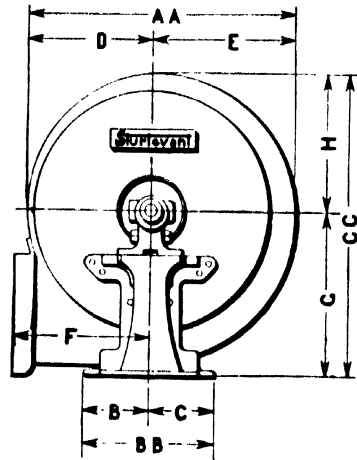
# Reversible and Convertible Steel Plate Exhauster with Multiblade Wheel—Design 6

Single  
Width

Full Housing

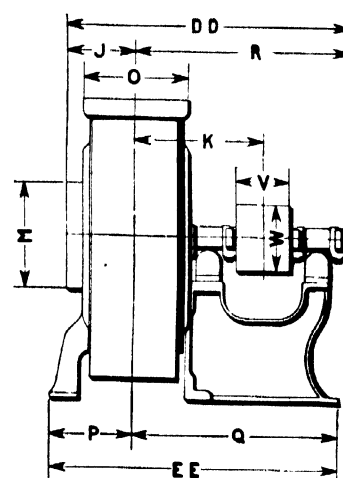
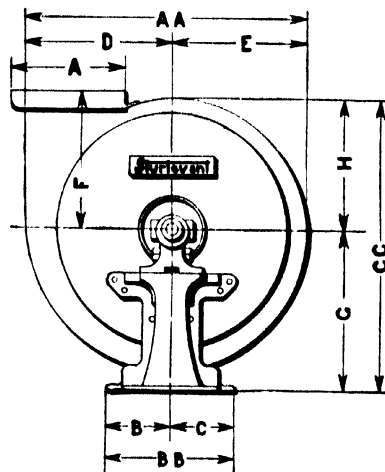
Bottom Horizontal Discharge

Overhung Wheel



| Fan Size | A      | B     | C     | D      | E      | F      | G      | H      | J      | K      | M      | O      | P      | Q      | R      | V     | W      | AA     | BB     | CC     | DD     | EE     | Extremo Wheel Diameter | Shaft Diameter | Anchor Hanger | Bolts Fan |
|----------|--------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|--------|--------|--------|--------|--------|--------|------------------------|----------------|---------------|-----------|
| 30       | 12 1/2 | 5 1/2 | 5 1/2 | 12 1/2 | 14 1/2 | 14 1/2 | 16 1/2 | 13 1/2 | 7 1/2  | 13 1/2 | 11 1/2 | 11 1/2 | 8 1/2  | 21 1/2 | 22 1/2 | 5 1/2 | 7 1/2  | 27 1/2 | 10     | 30 1/2 | 29 1/2 | 30 1/2 | 20 1/2                 | 1 1/2          | 2 1/2         | 3/8       |
| 35       | 15 1/2 | 5 1/2 | 5 1/2 | 14 1/2 | 17 1/2 | 15 1/2 | 19 1/2 | 15 1/2 | 7 1/2  | 15 1/2 | 13 1/2 | 12 1/2 | 9 1/2  | 21 1/2 | 25 1/2 | 6 1/2 | 8 1/2  | 31 1/2 | 11     | 35 1/2 | 33 1/2 | 31 1/2 | 23 1/2                 | 1 1/2          | 2 1/2         | 3/8       |
| 40       | 16 1/2 | 6 1/2 | 6 1/2 | 16 1/2 | 19 1/2 | 17 1/2 | 23 1/2 | 18 1/2 | 7 1/2  | 16 1/2 | 15 1/2 | 14 1/2 | 10 1/2 | 27 1/2 | 27 1/2 | 7 1/2 | 9 1/2  | 36 1/2 | 12     | 41 1/2 | 35 1/2 | 37 1/2 | 27                     | 1 1/2          | 2 1/2         | 3/8       |
| 45       | 17 1/2 | 6 1/2 | 6 1/2 | 18 1/2 | 22 1/2 | 18 1/2 | 25 1/2 | 20 1/2 | 9 1/2  | 18 1/2 | 17 1/2 | 15 1/2 | 11 1/2 | 29 1/2 | 30 1/2 | 7 1/2 | 10 1/2 | 25 1/2 | 13 1/2 | 45 1/2 | 40 1/2 | 40 1/2 | 30 1/2                 | 1 1/2          | 2 1/2         | 3/8       |
| 50       | 19 1/2 | 7 1/2 | 7 1/2 | 20 1/2 | 24 1/2 | 21 1/2 | 28 1/2 | 22 1/2 | 10 1/2 | 20 1/2 | 19 1/2 | 17 1/2 | 12 1/2 | 32 1/2 | 34 1/2 | 8 1/2 | 10 1/2 | 45 1/2 | 15 1/2 | 50 1/2 | 44 1/2 | 45 1/2 | 33 1/2                 | 1 1/2          | 2 1/2         | 3/8       |

## Up Blast Discharge



| Fan Size | A      | B     | C     | D      | E      | F      | G      | H      | J      | K      | M      | O      | P      | Q      | R      | V     | W      | AA     | BB     | CC     | DD     | EE     | Extremo Wheel Diameter | Shaft Diameter | Anchor Hanger | Bolts Fan |
|----------|--------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|--------|--------|--------|--------|--------|--------|------------------------|----------------|---------------|-----------|
| 30       | 12 1/2 | 5 1/2 | 5 1/2 | 15 1/2 | 13 1/2 | 14 1/2 | 16 1/2 | 12 1/2 | 7 1/2  | 13 1/2 | 11 1/2 | 11 1/2 | 8 1/2  | 21 1/2 | 22 1/2 | 5 1/2 | 7 1/2  | 29 1/2 | 10     | 30 1/2 | 29 1/2 | 30 1/2 | 20 1/2                 | 1 1/2          | 2 1/2         | 3/8       |
| 35       | 15 1/2 | 5 1/2 | 5 1/2 | 18 1/2 | 15 1/2 | 15 1/2 | 19 1/2 | 14 1/2 | 7 1/2  | 15 1/2 | 13 1/2 | 12 1/2 | 9 1/2  | 21 1/2 | 25 1/2 | 6 1/2 | 8 1/2  | 31 1/2 | 11     | 35 1/2 | 33 1/2 | 31 1/2 | 23 1/2                 | 1 1/2          | 2 1/2         | 3/8       |
| 40       | 16 1/2 | 6 1/2 | 6 1/2 | 21 1/2 | 18 1/2 | 17 1/2 | 23 1/2 | 16 1/2 | 7 1/2  | 16 1/2 | 15 1/2 | 14 1/2 | 10 1/2 | 27 1/2 | 27 1/2 | 7 1/2 | 9 1/2  | 39 1/2 | 12     | 41 1/2 | 35 1/2 | 37 1/2 | 27                     | 1 1/2          | 2 1/2         | 3/8       |
| 45       | 17 1/2 | 6 1/2 | 6 1/2 | 23 1/2 | 20 1/2 | 18 1/2 | 25 1/2 | 18 1/2 | 9 1/2  | 18 1/2 | 17 1/2 | 15 1/2 | 11 1/2 | 29 1/2 | 30 1/2 | 7 1/2 | 10 1/2 | 30 1/2 | 13 1/2 | 45 1/2 | 40 1/2 | 40 1/2 | 30 1/2                 | 1 1/2          | 2 1/2         | 3/8       |
| 50       | 19 1/2 | 7 1/2 | 7 1/2 | 26 1/2 | 22 1/2 | 21 1/2 | 28 1/2 | 20 1/2 | 10 1/2 | 20 1/2 | 19 1/2 | 17 1/2 | 12 1/2 | 32 1/2 | 34 1/2 | 8 1/2 | 10 1/2 | 49 1/2 | 15 1/2 | 50 1/2 | 44 1/2 | 45 1/2 | 33 1/2                 | 1 1/2          | 2 1/2         | 3/8       |

Single  
Inlet

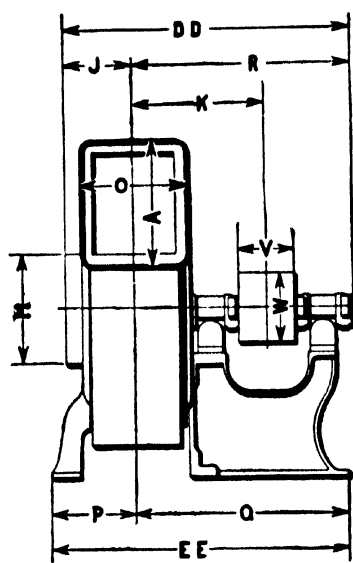
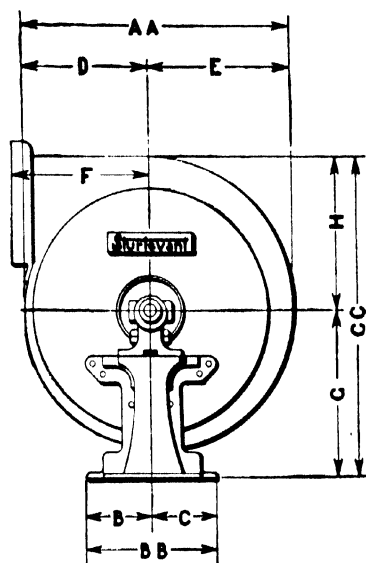
# Reversible and Convertible Steel Plate Exhauster with Multiblade Wheel—Design 6

Single  
Width

Full Housing

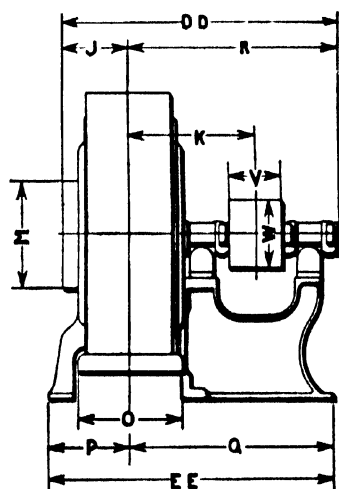
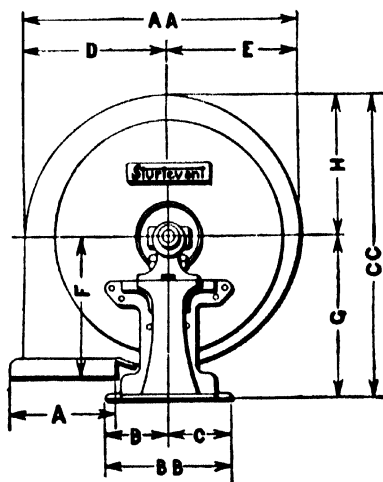
Top Horizontal Discharge

Overhung Wheel



| Size | A  | B | C | D  | E  | F  | G  | H  | J  | K  | M  | O  | P  | Q  | R  | V | W  | AA | BB | CC | DD | EE | Extreme Wheel Diameter | Shaft Dia. | Anchor Bolts |     |
|------|----|---|---|----|----|----|----|----|----|----|----|----|----|----|----|---|----|----|----|----|----|----|------------------------|------------|--------------|-----|
|      |    |   |   |    |    |    |    |    |    |    |    |    |    |    |    |   |    |    |    |    |    |    |                        |            | Hanger       | Fan |
| 0    | 12 | 5 | 5 | 12 | 14 | 14 | 16 | 15 | 7  | 13 | 11 | 11 | 8  | 21 | 22 | 5 | 7  | 27 | 10 | 32 | 29 | 30 | 20                     | 1          |              |     |
| 5    | 15 | 5 | 5 | 14 | 17 | 15 | 19 | 18 | 7  | 15 | 13 | 12 | 9  | 21 | 25 | 6 | 8  | 31 | 11 | 38 | 33 | 31 | 23                     | 1          |              |     |
| 0    | 16 | 6 | 6 | 16 | 19 | 17 | 23 | 21 | 7  | 16 | 15 | 14 | 10 | 27 | 27 | 7 | 9  | 36 | 12 | 44 | 35 | 37 | 27                     | 1          |              |     |
| 5    | 17 | 6 | 6 | 18 | 22 | 18 | 25 | 23 | 9  | 18 | 17 | 15 | 11 | 29 | 30 | 7 | 10 | 40 | 13 | 49 | 40 | 40 | 30                     | 1          |              |     |
| 0    | 19 | 7 | 7 | 20 | 24 | 21 | 28 | 26 | 10 | 20 | 19 | 17 | 12 | 32 | 34 | 8 | 10 | 45 | 15 | 54 | 44 | 45 | 33                     | 1          |              |     |

Down Blast Discharge



| Size | A  | B | C | D  | E  | F  | G  | H  | J  | K  | M  | O  | P  | Q  | R  | V | W  | AA | BB | CC | DD | EE | Extreme Wheel Diameter | Shaft Dia. | Anchor Bolts |     |
|------|----|---|---|----|----|----|----|----|----|----|----|----|----|----|----|---|----|----|----|----|----|----|------------------------|------------|--------------|-----|
|      |    |   |   |    |    |    |    |    |    |    |    |    |    |    |    |   |    |    |    |    |    |    |                        |            | Hanger       | Fan |
| 30   | 12 | 5 | 5 | 15 | 13 | 14 | 16 | 14 | 7  | 13 | 11 | 11 | 8  | 21 | 22 | 5 | 7  | 29 | 10 | 30 | 29 | 30 | 20                     | 1          |              |     |
| 35   | 15 | 5 | 5 | 18 | 15 | 15 | 19 | 17 | 7  | 15 | 13 | 12 | 9  | 21 | 25 | 6 | 8  | 34 | 11 | 36 | 33 | 31 | 23                     | 1          |              |     |
| 40   | 16 | 6 | 6 | 21 | 18 | 17 | 23 | 19 | 7  | 16 | 15 | 14 | 10 | 27 | 27 | 7 | 9  | 39 | 12 | 41 | 35 | 37 | 27                     | 1          |              |     |
| 45   | 17 | 6 | 6 | 23 | 20 | 18 | 25 | 22 | 9  | 18 | 17 | 15 | 11 | 29 | 30 | 7 | 10 | 44 | 13 | 45 | 40 | 40 | 30                     | 1          |              |     |
| 50   | 19 | 7 | 7 | 26 | 22 | 21 | 28 | 24 | 10 | 20 | 19 | 17 | 12 | 32 | 34 | 8 | 10 | 49 | 15 | 50 | 44 | 45 | 33                     | 1          |              |     |



### Single Width

**When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances**

560

## Single Inlet

## 30" Reversible and Convertible Steel Plate Exhauster with Multiblade Wheel—Design 6—Cont'd

**Single Width**

**When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances**

[illegible]

### Single Width

**When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances**

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M. H. P. Static Pressure 1" Water .072 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1 1/4" Water .145 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1 1/2" Water .217 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1 3/4" Water .289 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 2" Water .361 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 2 1/2" Water .434 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 3" Water .506 ozs. per sq. inch |
|--------|------------------|------------------|---|---|---|---|---|---|---|
| 194    | 1200             | 0 135            | 287   | 0 010   |   |   |   |   |   |
| 226    | 1400             | 0 184            | 674   | 0 029   |   |   |   |   |   |
| 258    | 1600             | 0 210            | 893   | 0 050   |   |   |   |   |   |
| 290    | 1800             | 0 303            | 1 060   | 0 075   | 665   | 0 047   |   |   |   |
| 323    | 2000             | 0 375            | 1 210   | 0 105   | 983   | 0 085   |   |   |   |
| 355    | 2200             | 0 454            | 1 350   | 0 140   | 1 200   | 0 125   | 813   | 0 086   |   |
| 387    | 2400             | 0 510            | 1 490   | 0 185   | 1 380   | 0 175   | 1 140   | 0 140   |   |
| 420    | 2600             | 0 634            | 1 620   | 0 240   | 1 510   | 0 225   | 1 380   | 0 205   |   |
| 451    | 2800             | 0 736            | 1 760   | 0 310   | 1 690   | 0 285   | 1 570   | 0 27  | 1 350   |
| 483    | 3000             | 0 813            | 1 880   | 0 385   | 1 840   | 0 355   | 1 750   | 0 31  | 1 590   |
| 516    | 3200             | 0 959            | 2 010   | 0 48  | 1 970   | 0 435   | 1 900   | 0 42  | 1 790   |
| 548    | 3400             | 1 085            | 2 140   | 0 59  | 2 100   | 0 53  | 2 050   | 0 51  | 1 970   |
| 581    | 3600             | 1 215            | 2 260   | 0 71  | 2 240   | 0 64  | 2 190   | 0 61  | 2 120   |
| 613    | 3800             | 1 352            |   |   | 2 380   | 0 76  | 2 340   | 0 73  | 2 280   |
| 645    | 4000             | 1 500            |   |   | 2 500   | 0 91  | 2 470   | 0 86  | 2 430   |
| 678    | 4200             | 1 655            |   |   | 2 630   | 1 05  | 2 610   | 1 00  | 2 560   |
| 710    | 4400             | 1 812            |   |   | 2 760   | 1 25  | 2 750   | 1 15  | 2 710   |
| 743    | 4600             | 1 981            |   |   | 2 890   | 1 45  | 2 880   | 1 35  | 2 830   |
| 775    | 4800             | 2 16             |   |   | 3 010   | 1 65  | 3 000   | 1 55  | 2 970   |
| 806    | 5000             | 2 34             |   |   | 3 150   | 1 9   | 3 130   | 1 8   | 3 110   |
| 846    | 5250             | 2 59             |   |   |   |   | 3 290   | 2   | 3 280   |
|        |                  |                  |   |   |   |   |   |   | 3 250   |
|        |                  |                  |   |   |   |   |   |   | 3 240   |
|        |                  |                  |   |   |   |   |   |   | 3 170   |
|        |                  |                  |   |   |   |   |   |   | 1 9   |
|        |                  |                  |   |   |   |   |   |   | 1 05  |
|        |                  |                  |   |   |   |   |   |   | 1 25  |
|        |                  |                  |   |   |   |   |   |   | 1 4   |
|        |                  |                  |   |   |   |   |   |   | 1 6   |
|        |                  |                  |   |   |   |   |   |   | 1 9   |
|        |                  |                  |   |   |   |   |   |   | 1 25  |
|        |                  |                  |   |   |   |   |   |   | 1 4   |
|        |                  |                  |   |   |   |   |   |   | 1 6   |
|        |                  |                  |   |   |   |   |   |   | 1 9   |
|        |                  |                  |   |   |   |   |   |   | 1 25  |
|        |                  |                  |   |   |   |   |   |   | 1 4   |
|        |                  |                  |   |   |   |   |   |   | 1 6   |
|        |                  |                  |   |   |   |   |   |   | 1 9   |
|        |                  |                  |   |   |   |   |   |   | 1 25  |
|        |                  |                  |   |   |   |   |   |   | 1 4   |
|        |                  |                  |   |   |   |   |   |   | 1 6   |
|        |                  |                  |   |   |   |   |   |   | 1 9   |
|        |                  |                  |   |   |   |   |   |   | 1 25  |
|        |                  |                  |   |   |   |   |   |   | 1 4   |
|        |                  |                  |   |   |   |   |   |   | 1 6   |
|        |                  |                  |   |   |   |   |   |   | 1 9   |
|        |                  |                  |   |   |   |   |   |   | 1 25  |
|        |                  |                  |   |   |   |   |   |   | 1 4   |
|        |                  |                  |   |   |   |   |   |   | 1 6   |
|        |                  |                  |   |   |   |   |   |   | 1 9   |
|        |                  |                  |   |   |   |   |   |   | 1 25  |
|        |                  |                  |   |   |   |   |   |   | 1 4   |
|        |                  |                  |   |   |   |   |   |   | 1 6   |
|        |                  |                  |   |   |   |   |   |   | 1 9   |
|        |                  |                  |   |   |   |   |   |   | 1 25  |
|        |                  |                  |   |   |   |   |   |   | 1 4   |
|        |                  |                  |   |   |   |   |   |   | 1 6   |
|        |                  |                  |   |   |   |   |   |   | 1 9   |
|        |                  |                  |   |   |   |   |   |   | 1 25  |
|        |                  |                  |   |   |   |   |   |   | 1 4   |
|        |                  |                  |   |   |   |   |   |   | 1   |

## 35" Reversible and Convertible Steel Plate Exhauster with Multiblade Wheel—Design 6—Cont'd

**When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances**

| R.P.M. | Tip Speed<br>F.P.M. | S.N.D.<br>in<br>inches | Volume<br>C.F.M.   |      | H. P.  |      | Volume<br>C.F.M.  |      | H. P.  |      | Volume<br>C.F.M.   |      | H. P.  |      | Volume<br>C.F.M.  |      | H. P. |  | Volume<br>C.F.M. |  | H. P. |  |
|--------|---------------------|------------------------|--|------|--|------|---|------|--|------|--|------|--|------|---|------|-------|--|------------------|--|-------|--|
|        |                     |                        | Static Pressure<br>4" Water<br>2.61 ozs. per<br>sq. inch |      | Static Pressure<br>5" Water<br>2.89 ozs. per<br>sq. inch |      | Static Pressure<br>5½" Water<br>3.18 ozs. per<br>sq. inch |      | Static Pressure<br>6" Water<br>3.47 ozs. per<br>sq. inch |      | Static Pressure<br>7" Water<br>4.05 ozs. per<br>sq. inch |      | Static Pressure<br>8" Water<br>4.63 ozs. per<br>sq. inch |      | Static Pressure<br>9" Water<br>5.2 ozs. per<br>sq. inch |      |       |  |                  |  |       |  |
| 1362   | 7500                | 5 27                   | 2.560  | 3 15 | 1.370  | 1 95 |   |      |  |      |  |      |  |      |   |      |       |  |                  |  |       |  |
| 1453   | 8000                | 6 00                   | 3.480  | 4 8  | 2.890  | 4 0  | 2,010   | 3.0  |  |      |  |      |  |      |   |      |       |  |                  |  |       |  |
| 1545   | 8500                | 6 78                   | 4.200  | 6 6  | 3.810  | 6 0  | 3,260   | 5.1  | 2,590  | 4 2  |  |      |  |      |   |      |       |  |                  |  |       |  |
| 1637   | 9000                | 7 60                   | 4.760  | 8 4  | 4.460  | 7 9  | 4,070   | 7.2  | 3,630  | 6 4  | 2,210  | 4 15 |  |      |   |      |       |  |                  |  |       |  |
| 1728   | 9500                | 8 46                   | 5.260  | 10 5 | 5,030  | 9 9  | 4,720   | 9 3  | 4,430  | 8 7  | 3,520  | 6 9  | 1,830  | 4 1  |   |      |       |  |                  |  |       |  |
| 1819   | 10000               | 9 37                   | 5.710  | 12 5 | 5,520  | 12 0 | 5,320   | 10.5 | 5,050  | 11 0 | 4,350  | 9.5  | 3,410  | 7.5  |   |      |       |  |                  |  |       |  |
| 1910   | 10500               | 10 3                   | 6.120  | 14 5 | 5,980  | 14 5 | 5,810   | 14.0 | 5,600  | 13 5 | 5,080  | 12.0 | 4,380  | 10 5 | 3,370   | 8 3  |       |  |                  |  |       |  |
| 2000   | 11000               | 11 3                   | 6.530  | 17   | 6.410  | 17 0 | 6,270   | 16.5 | 6,110  | 16   | 5,670  | 15.0 | 5,130  | 13 5 | 4,400   | 11 5 |       |  |                  |  |       |  |
| 2090   | 11500               | 12 4                   | 6.870  | 20   | 6.790  | 19 5 | 6,690   | 19 0 | 6,570  | 19   | 6,210  | 18 0 | 5,780  | 16 5 | 5,220   | 15 0 |       |  |                  |  |       |  |
| 2180   | 12000               | 13 5                   | 7.230  | 23   | 7.150  | 22 5 | 7,060   | 22 5 | 7,000  | 22   | 6,710  | 21 0 | 6,340  | 20   | 5,890   | 18 5 |       |  |                  |  |       |  |
| 2270   | 12500               | 14 7                   | 7.580  | 26   | 7.520  | 26   | 7,460   | 25 5 | 7,400  | 25   | 7,170  | 24 5 | 6,840  | 23   | 6,460   | 22   |       |  |                  |  |       |  |
| 2360   | 13000               | 15 8                   | 7.910  | 29   | 7,900  | 29   | 7,850   | 29   | 7,820  | 28   | 7,570  | 28   | 7,320  | 27   | 7,030   | 26   |       |  |                  |  |       |  |
| 2450   | 13500               | 17 1                   |  |      |  |      |   |      | 8,200  | 32   | 8,000  | 31   | 7,740  | 31   | 7,520   | 30   |       |  |                  |  |       |  |
| 2550   | 14000               | 18 4                   |  |      |  |      |   |      | 8,600  | 36   | 8,430  | 35   | 8,160  | 35   | 7,950   | 34   |       |  |                  |  |       |  |
| 2640   | 14500               | 19.7                   |  |      |  |      |   |      | 9,000  | 41   | 8,850  | 40   | 8,560  | 39   | 8,370   | 38   |       |  |                  |  |       |  |
| 2730   | 15000               | 21 1                   |  |      |  |      |   |      | 9,430  | 46   | 9,250  | 45   | 9,000  | 44   | 8,800   | 43   |       |  |                  |  |       |  |

[illegible]

### Single Width

**When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances**

564

## Single Width

**When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances**

[illegible]

## Single Width

**When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances**

[illegible]

## 45" Reversible and Convertible Steel Plate Exhauster with Multiblade Wheel—Design 6—Cont'd

**Single Width**

**When Discharging Air at 65° F and Density .075 lbs. per cubic foot against Continuously Maintained Resistances**

[illegible]



## Single Width

**When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances**

[illegible]

## Single Width

**When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances**

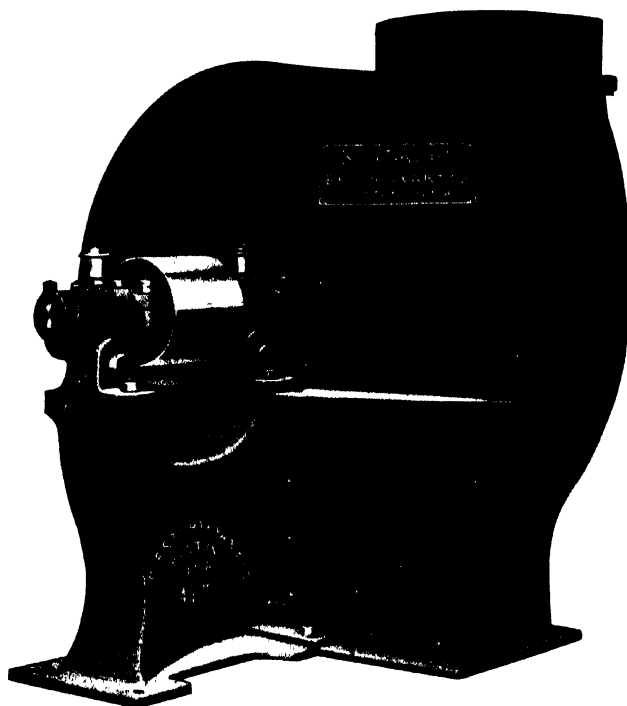
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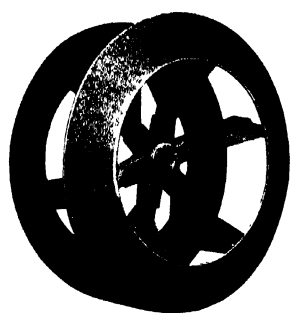
**STEEL PLATE PLANING  
MILL EXHAUSTER  
Design 1**

**Dimensions, Capacities, Horse Powers**

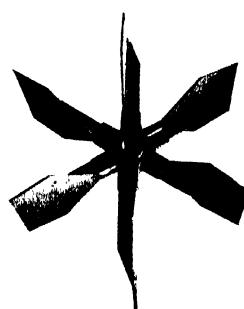




Steel Plate Planing Mill Exhauster — Design 1



Side Plate Blast Wheel  
(For Ordinary Work)



Long Shaving Blast Wheel  
(For Handling Long Material)

# STEEL PLATE PLANING MILL EXHAUSTER—DESIGN 1

## SPECIFICATIONS

There shall be furnished a . . . . . inch, Design 1 Sturtevant Steel Plate Planing Mill Exhauster to be . . . . . hand, . . . . . discharge, with pulley . . . . . inches in diameter by . . . . . inches face. The blast wheel shall be . . . . . inches in diameter containing floats of . . . . . gauge. The floats shall be securely riveted to steel T-arms cast into the hub.

The housing shall have side sheets of . . . . . gauge and a roundabout sheet of . . . . . gauge. The roundabout sheet is to be secured to the scroll angle by tap bolts  $\frac{3}{8}$ -inch, and spaced five inches on centers. The inlet shall be . . . . . inches in diameter. The outlets are cylindrical and are cast on fans 30 to 80 inches inclusive except the down blast. In the down blast fan the outlet is part of the base casting. In sizes 90 to 100 inches fans the outlets are rectangular and built of angle iron. The cut-off piece shall be made of a sheet so built and so attached to the spiral sheet as to limit its vibration and therefore reduce noise.

**Shaft.** The shaft shall be made of steel forging and after the keyways are cut, shall be accurately turned and ground.

**Bearings.** The bearing shall be lined with the best quality babbit, containing upwards of 85 per cent. tin, bored and scraped to size.

# STEEL PLATE PLANING MILL EXHAUSTER—DESIGN 1

## EXPLANATION OF SPECIFICATION REQUIREMENTS

**Wearing Qualities.** On account of the severe service to which Planing Mill Exhausters are subjected, the casing and wheel of this fan are of exceptionally heavy gauge 'so as to give many years of satisfactory service. Furthermore a great deal depends upon the shaft and bearings, and a shaft which is carefully turned and ground to gauge, and which runs in bearings containing a very high quality babbitt metal, is bound to show its worth.



## **Steel Plate Planing Mill Exhausters Design 1**

### **EXPLANATION OF TABLES**

The general explanation of tables given at the front of this book applies without exception to the following tables.

## **Steel Plate Planing Mill Exhauster Design 1**

### **APPROXIMATE WEIGHTS**

| <b>Size</b> | <b>Single Width</b> | <b>Double Width</b> |
|-------------|---------------------|---------------------|
| 30          | 300                 | 510                 |
| 35          | 435                 | 750                 |
| 40          | 550                 | 1000                |
| 45          | 760                 | 1260                |
| 50          | 970                 | 1630                |
| 55          | 1185                | 1940                |
| 60          | 1390                | 2300                |
| 70          | 2000                | 3450                |
| 80          | 2960                | 4900                |
| 90          | 3100                | 5900                |
| 100         | 3250                | 6500                |

Single Inlet

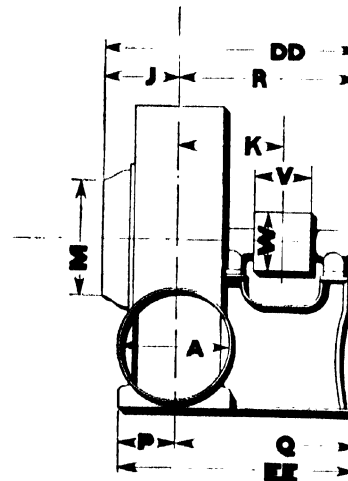
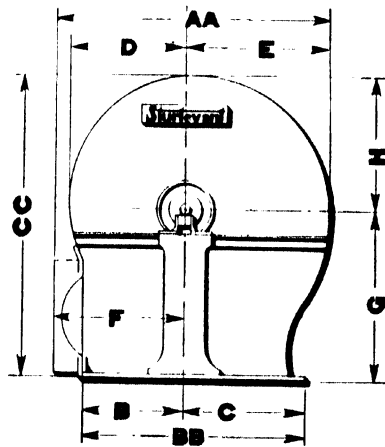
# Steel Plate Planing Mill Exhauster Design 1

Single Width

Full Housing

Bottom Horizontal Discharge

Overhung Wheel



| Fan Size | A                | B                | C                | D                | E                | F                | G                | H                | J                | K                | M                | P                | Q                | R                | V                | W                | AA               | BB               | CC               | DD                | EE                | Wheel Diameter    | Shaft Diameter    | Anchor Bolts |        |
|----------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|--------------|--------|
|          |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                   |                   |                   |                   | Fan          | Hanger |
| 30       | 11               | 10               | 11 $\frac{1}{2}$ | 11 $\frac{1}{2}$ | 11 $\frac{1}{2}$ | 13 $\frac{1}{2}$ | 16 $\frac{1}{2}$ | 13               | 8 $\frac{1}{4}$  | 12               | 11               | 6 $\frac{1}{8}$  | 20 $\frac{1}{2}$ | 21               | 5                | 5 $\frac{1}{2}$  | 28               | 21 $\frac{1}{2}$ | 29 $\frac{1}{8}$ | 29 $\frac{1}{2}$  | 26 $\frac{1}{16}$ | 18                | 1 $\frac{1}{2}$   | 1            | 1      |
| 35       | 13               | 12               | 11 $\frac{1}{2}$ | 13 $\frac{1}{2}$ | 17               | 16               | 19 $\frac{3}{8}$ | 15 $\frac{1}{2}$ | 10 $\frac{1}{4}$ | 11 $\frac{1}{2}$ | 13               | 7 $\frac{1}{4}$  | 21 $\frac{1}{2}$ | 21 $\frac{1}{2}$ | 6                | 6                | 33               | 26 $\frac{1}{2}$ | 31 $\frac{1}{2}$ | 31 $\frac{1}{2}$  | 31 $\frac{1}{2}$  | 21                | 1 $\frac{1}{2}$   | 1            | 1      |
| 40       | 14 $\frac{1}{2}$ | 14               | 16 $\frac{1}{2}$ | 16 $\frac{1}{2}$ | 20 $\frac{1}{2}$ | 18 $\frac{1}{2}$ | 23 $\frac{1}{2}$ | 18 $\frac{1}{2}$ | 10 $\frac{3}{4}$ | 15 $\frac{1}{2}$ | 15               | 8 $\frac{1}{8}$  | 26               | 26 $\frac{1}{2}$ | 6 $\frac{1}{2}$  | 6 $\frac{1}{2}$  | 39               | 30 $\frac{1}{2}$ | 41 $\frac{1}{2}$ | 37 $\frac{1}{2}$  | 31 $\frac{1}{16}$ | 24                | 1 $\frac{11}{16}$ | 1            | 1      |
| 45       | 16 $\frac{1}{2}$ | 16 $\frac{1}{2}$ | 18 $\frac{1}{2}$ | 19               | 23               | 21 $\frac{1}{2}$ | 25 $\frac{1}{2}$ | 21               | 11 $\frac{1}{2}$ | 17 $\frac{1}{2}$ | 17               | 9 $\frac{1}{4}$  | 28 $\frac{1}{2}$ | 29 $\frac{1}{2}$ | 7 $\frac{1}{2}$  | 8                | 41 $\frac{1}{2}$ | 31 $\frac{1}{2}$ | 46 $\frac{1}{2}$ | 11 $\frac{1}{2}$  | 37 $\frac{1}{2}$  | 27                | 1 $\frac{15}{16}$ | 1            | 1      |
| 50       | 18 $\frac{1}{2}$ | 18 $\frac{1}{2}$ | 22               | 21               | 25               | 23 $\frac{1}{2}$ | 28 $\frac{1}{2}$ | 23               | 12 $\frac{1}{2}$ | 19               | 19               | 10               | 31 $\frac{1}{2}$ | 32 $\frac{1}{2}$ | 8 $\frac{1}{2}$  | 8 $\frac{1}{2}$  | 48 $\frac{1}{2}$ | 40 $\frac{1}{2}$ | 51 $\frac{1}{2}$ | 45 $\frac{1}{2}$  | 41 $\frac{1}{2}$  | 30                | 1 $\frac{15}{16}$ | 2            | 2      |
| 55       | 20 $\frac{1}{2}$ | 20 $\frac{1}{2}$ | 22 $\frac{1}{2}$ | 22 $\frac{1}{2}$ | 27 $\frac{1}{2}$ | 25 $\frac{1}{2}$ | 31 $\frac{1}{2}$ | 25               | 14 $\frac{1}{8}$ | 21               | 21               | 10 $\frac{1}{2}$ | 34               | 36               | 9 $\frac{1}{2}$  | 9 $\frac{1}{2}$  | 53               | 42 $\frac{1}{2}$ | 56 $\frac{1}{2}$ | 50 $\frac{3}{16}$ | 11 $\frac{1}{2}$  | 33                | 2 $\frac{1}{16}$  | 1            | 1      |
| 60       | 22 $\frac{1}{2}$ | 20 $\frac{1}{2}$ | 25               | 21               | 30               | 25 $\frac{1}{2}$ | 33 $\frac{1}{2}$ | 27               | 15 $\frac{1}{4}$ | 22 $\frac{1}{2}$ | 23               | 11 $\frac{1}{2}$ | 37 $\frac{1}{2}$ | 39               | 10               | 10 $\frac{1}{2}$ | 55 $\frac{1}{2}$ | 45 $\frac{1}{2}$ | 60 $\frac{1}{2}$ | 54 $\frac{1}{2}$  | 18 $\frac{1}{2}$  | 36                | 2 $\frac{1}{16}$  | 1            | 1      |
| 70       | 25 $\frac{1}{2}$ | 22 $\frac{1}{2}$ | 30 $\frac{1}{2}$ | 27 $\frac{1}{2}$ | 34 $\frac{1}{2}$ | 28 $\frac{1}{2}$ | 39 $\frac{1}{2}$ | 30 $\frac{1}{2}$ | 12 $\frac{1}{2}$ | 25 $\frac{1}{2}$ | 25 $\frac{1}{2}$ | 13 $\frac{1}{2}$ | 42 $\frac{1}{2}$ | 42 $\frac{1}{2}$ | 10 $\frac{1}{2}$ | 12               | 63               | 53               | 70               | 55 $\frac{1}{2}$  | 56                | 42                | 2 $\frac{7}{16}$  | 1            | 1      |
| 80       | 30               | 26 $\frac{1}{2}$ | 29 $\frac{1}{2}$ | 31               | 39               | 32 $\frac{1}{2}$ | 45               | 35               | 14 $\frac{1}{2}$ | 28               | 30               | 15               | 45 $\frac{1}{2}$ | 45 $\frac{1}{2}$ | 11 $\frac{1}{2}$ | 13 $\frac{1}{2}$ | 71 $\frac{1}{2}$ | 55 $\frac{1}{2}$ | 80               | 60 $\frac{1}{2}$  | 60 $\frac{1}{2}$  | 48                | 2 $\frac{11}{16}$ | 1            | 1      |
| 90       | 31               | 31 $\frac{1}{2}$ | 34               | 41               | 33 $\frac{1}{2}$ | 49               | 39               | 16 $\frac{1}{2}$ | 29 $\frac{1}{2}$ | 34               | 17 $\frac{1}{2}$ | 47 $\frac{1}{2}$ | 49 $\frac{1}{2}$ | 12 $\frac{1}{2}$ | 20               | 77 $\frac{1}{2}$ | 65 $\frac{1}{2}$ | 88               | 65 $\frac{1}{2}$ | 64 $\frac{1}{2}$  | 54                | 2 $\frac{11}{16}$ | 1                 | 1            | 1      |
| 100      | 32               | 36 $\frac{1}{2}$ | 37               | 49               | 34 $\frac{1}{2}$ | 50 $\frac{1}{2}$ | 43               | 18 $\frac{1}{2}$ | 31 $\frac{1}{2}$ | 38               | 20               | 50 $\frac{1}{2}$ | 51               | 18 $\frac{1}{2}$ | 20               | 83 $\frac{1}{2}$ | 68 $\frac{1}{2}$ | 93 $\frac{1}{2}$ | 69 $\frac{1}{2}$ | 70 $\frac{1}{2}$  | 60                | 2 $\frac{15}{16}$ | 1                 | 1            | 1      |

Note—Outlet for the 90 inch Exhauster is rectangular 30 $\frac{1}{2}$ x28 $\frac{1}{2}$ ; that for the 100 is 32 $\frac{1}{2}$ x32 $\frac{1}{2}$ .

Single Inlet

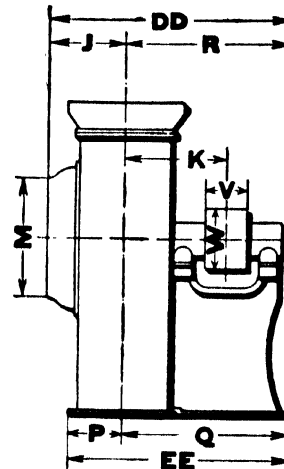
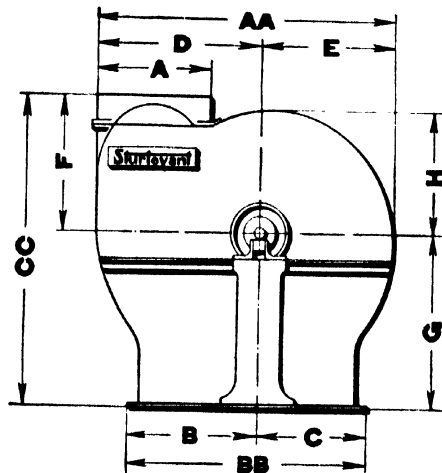
# Steel Plate Planing Mill Exhauster Design 1

Single Width

Full Housing

Up Blast Discharge

Overhung Wheel



| Size | A   | B   | C   | D   | E   | F   | G   | H   | J   | K   | M   | P   | Q   | R   | V   | W   | AA  | BB  | CC  | DD  | EE  | Wheel<br>Diameter | Shaft<br>Diameter | Anchor Bolts<br>Fan Hanger |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------------------|-------------------|----------------------------|
| 30   | 11  | 12½ | 10½ | 16  | 13  | 13½ | 16½ | 11½ | 8½  | 12  | 11  | 6½  | 20½ | 21  | 5   | 5½  | 29  | 23  | 29½ | 29½ | 26½ | 18                | 1½                | ½                          |
| 35   | 13  | 15  | 12½ | 18½ | 15½ | 16  | 19½ | 13½ | 10½ | 14½ | 13  | 7½  | 24½ | 24½ | 6   | 6   | 34  | 27½ | 35½ | 34½ | 31½ | 21                | 1½                | ½                          |
| 40   | 14½ | 17½ | 14½ | 22½ | 18½ | 18½ | 23½ | 16½ | 10½ | 15½ | 15  | 8½  | 26  | 26½ | 6½  | 6½  | 41  | 32  | 41½ | 37½ | 34½ | 24                | 1½                | ½                          |
| 45   | 16½ | 19½ | 16½ | 25  | 21  | 21½ | 25½ | 19  | 11½ | 17½ | 17  | 9½  | 28½ | 29½ | 7½  | 8   | 46  | 35½ | 46½ | 41½ | 37½ | 27                | 1½                | ½                          |
| 50   | 18½ | 23½ | 20½ | 27  | 23  | 24  | 28½ | 21  | 12½ | 19  | 19  | 10  | 31½ | 32½ | 8½  | 8½  | 50  | 44  | 52½ | 45½ | 41½ | 30                | 1½                | ½                          |
| 55   | 20½ | 24½ | 20½ | 30  | 25  | 25  | 31½ | 22½ | 14½ | 21  | 21  | 10½ | 33½ | 36  | 9½  | 9½  | 55  | 45  | 56½ | 50½ | 44½ | 33                | 2½                | ½                          |
| 60   | 22½ | 26  | 22  | 33  | 27  | 26½ | 33½ | 24  | 15½ | 22½ | 23  | 11½ | 37½ | 39  | 10  | 10½ | 60  | 48  | 60  | 54½ | 48½ | 36                | 2½                | ½                          |
| 70   | 25½ | 29½ | 24½ | 37½ | 30½ | 28½ | 39½ | 27½ | 12½ | 25½ | 25½ | 13½ | 42½ | 42½ | 10½ | 12  | 68½ | 54  | 68  | 55½ | 56  | 42                | 2½                | ½                          |
| 80   | 30  | 31  | 31  | 43  | 35  | 32½ | 45  | 31  | 14½ | 28  | 30  | 15  | 45½ | 46½ | 11½ | 13½ | 78  | 62  | 77½ | 60½ | 60½ | 48                | 2½                | ½                          |
| 90   |     | 34½ | 34½ | 49  | 39  | 33½ | 45  | 34  | 16½ | 30  | 34  | 17  | 47½ | 49½ | 12½ | 20  | 88  | 69  | 78½ | 65½ | 64½ | 54                | 2½                | ½                          |
| 100  |     | 36½ | 36½ | 55  | 43  | 34½ | 50½ | 37  | 18½ | 31½ | 38  | 20  | 50½ | 51  | 18½ | 20  | 98  | 73  | 85  | 69½ | 70½ | 60                | 2½                | ½                          |

Note—Outlet for the 90° Exhauster is rectangular, 30½" × 28¾"; that for the 100° is 32¾" × 32½"

Single Inlet

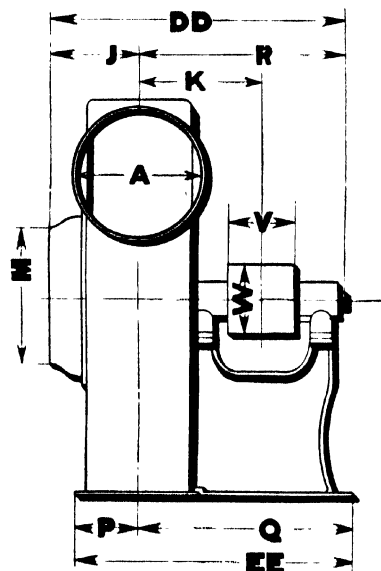
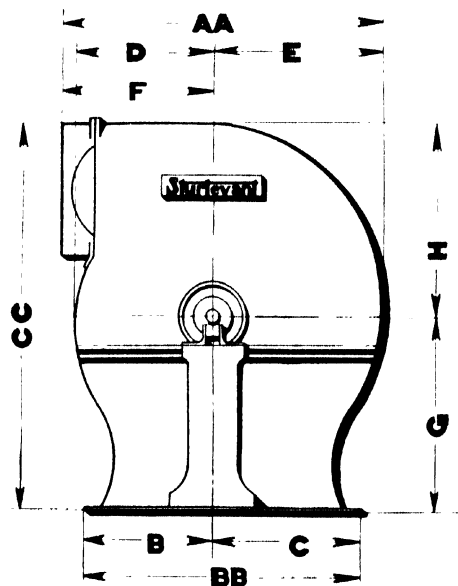
# Steel Plate Planing Mill Exhauster Design 1

Single Width

Full Housing

Top Horizontal Discharge

Overhung Wheel



| Fan Size | A   | B   | C   | D   | E   | F   | G   | H   | J   | K   | M   | P   | Q   | R   | V   | W   | AA  | BB  | CC   | DD  | FE  | Wheel Dia. | Shaft Dia. | Anchor Bolts Fan | Anchor Bolts Hanger |
|----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|------------|------------|------------------|---------------------|
| 30       | 11  | 10½ | 12½ | 11½ | 14½ | 13½ | 16½ | 16  | 8½  | 12  | 11  | 6½  | 20½ | 21  | 5   | 5½  | 27½ | 23  | 32½  | 29½ | 26½ | 18         | 1½         | ½                | ½                   |
| 35       | 13  | 12½ | 15  | 13½ | 17  | 16  | 19½ | 18½ | 10½ | 14½ | 13  | 7½  | 24½ | 24½ | 6   | 6   | 33  | 27½ | 38½  | 34½ | 31½ | 21         | 1½         | ½                | ½                   |
| 40       | 14½ | 14½ | 17½ | 16½ | 20½ | 18½ | 23½ | 22½ | 10½ | 15½ | 15  | 8½  | 26  | 26½ | 6½  | 6½  | 39  | 32  | 45½  | 37½ | 34½ | 24         | 1½         | ½                | ½                   |
| 45       | 16½ | 16½ | 19½ | 19  | 23  | 21½ | 25½ | 25  | 11½ | 17½ | 17  | 9½  | 28½ | 29½ | 7½  | 8   | 44½ | 35½ | 50½  | 41½ | 37½ | 27         | 1½         | ½                | ½                   |
| 50       | 18½ | 20½ | 23½ | 21  | 25  | 24  | 28½ | 27  | 12½ | 19  | 19  | 10  | 31½ | 32½ | 8½  | 8½  | 49  | 44  | 55½  | 45½ | 41½ | 30         | 1½         | ½                | ½                   |
| 55       | 20½ | 20½ | 24½ | 22½ | 27½ | 25  | 31½ | 30  | 14½ | 21  | 21  | 10½ | 34  | 36  | 9½  | 9½  | 52½ | 45  | 61½  | 50½ | 44½ | 33         | 2½         | ½                | ½                   |
| 60       | 22½ | 22  | 26  | 24  | 30  | 26½ | 33½ | 33  | 15½ | 22½ | 23  | 11½ | 37½ | 39  | 10  | 10½ | 56½ | 48  | 66½  | 54½ | 48½ | 36         | 2½         | ½                | ½                   |
| 70       | 25½ | 24½ | 29½ | 27½ | 34½ | 28½ | 39½ | 37½ | 12½ | 25½ | 25½ | 13½ | 42½ | 42½ | 10½ | 12  | 63  | 54  | 77   | 55½ | 56  | 42         | 2½         | ½                | ½                   |
| 80       | 30  | 31  | 31  | 31  | 39  | 32½ | 45  | 43  | 14½ | 28  | 30  | 15  | 45½ | 46½ | 11½ | 13½ | 71½ | 62  | 88   | 60½ | 60½ | 48         | 2½         | ½                | ½                   |
| 90       |     | 34½ | 34½ | 34  | 44  | 33½ | 45  | 49  | 16½ | 30  | 34  | 17  | 47½ | 48½ | 12½ | 20  | 77½ | 69  | 94   | 64½ | 64½ | 54         | 2½         | ½                | ½                   |
| 100      |     | 36½ | 36½ | 37  | 49  | 34½ | 50½ | 55  | 18½ | 31½ | 38  | 20  | 50½ | 50  | 18½ | 20  | 83½ | 73  | 105½ | 68½ | 70½ | 60         | 2½         | ½                | ½                   |

Note—Outlet for the 90 mch Exhauster is rectangular, 30½x28½, that for 100 mch is 32½x32½.

Single Inlet

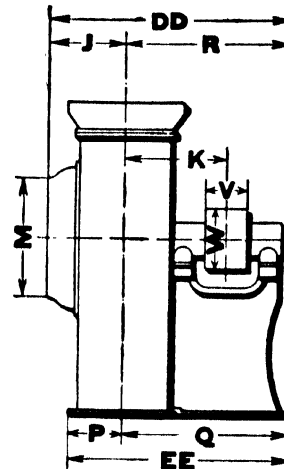
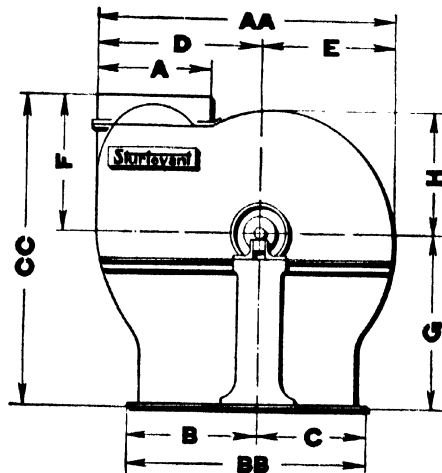
# Steel Plate Planing Mill Exhauster Design 1

Single Width

Full Housing

Up Blast Discharge

Overhung Wheel



| Size | A   | B   | C   | D   | E   | F   | G   | H   | J   | K   | M   | P   | Q   | R   | V   | W   | AA  | BB  | CC  | DD  | EE  | Wheel<br>Diameter | Shaft<br>Diameter | Anchor Bolts<br>Fan Hanger |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------------------|-------------------|----------------------------|
| 30   | 11  | 12½ | 10½ | 16  | 13  | 13½ | 16½ | 11½ | 8½  | 12  | 11  | 6½  | 20½ | 21  | 5   | 5½  | 29  | 23  | 29½ | 29½ | 26½ | 18                | 1½                | ½                          |
| 35   | 13  | 15  | 12½ | 18½ | 15½ | 16  | 19½ | 13½ | 10½ | 14½ | 13  | 7½  | 24½ | 24½ | 6   | 6   | 34  | 27½ | 35½ | 34½ | 31½ | 21                | 1½                | ½                          |
| 40   | 14½ | 17½ | 14½ | 22½ | 18½ | 18½ | 23½ | 16½ | 10½ | 15½ | 15  | 8½  | 26½ | 26½ | 6½  | 6½  | 41  | 32  | 41½ | 37½ | 34½ | 24                | 1½                | ½                          |
| 45   | 16½ | 19½ | 16½ | 25  | 21  | 21½ | 25½ | 19  | 11½ | 17½ | 17  | 9½  | 28½ | 29½ | 7½  | 8   | 46  | 35½ | 46½ | 41½ | 37½ | 27                | 1½                | ½                          |
| 50   | 18½ | 23½ | 20½ | 27  | 23  | 24  | 28½ | 21  | 12½ | 19  | 19  | 10  | 31½ | 32½ | 8½  | 8½  | 50  | 44  | 52½ | 45½ | 41½ | 30                | 1½                | ½                          |
| 55   | 20½ | 24½ | 20½ | 30  | 25  | 25  | 31½ | 22½ | 14½ | 21  | 21  | 10½ | 33½ | 36  | 9½  | 9½  | 55  | 45  | 56½ | 50½ | 44½ | 33                | 2½                | ½                          |
| 60   | 22½ | 26  | 22  | 33  | 27  | 26½ | 33½ | 24  | 15½ | 22½ | 23  | 11½ | 37½ | 39  | 10  | 10½ | 60  | 48  | 60  | 54½ | 48½ | 36                | 2½                | ½                          |
| 70   | 25½ | 29½ | 24½ | 37½ | 30½ | 28½ | 39½ | 27½ | 12½ | 25½ | 25½ | 13½ | 42½ | 42½ | 10½ | 12  | 68½ | 54  | 68  | 55½ | 56  | 42                | 2½                | ½                          |
| 80   | 30  | 31  | 31  | 43  | 35  | 32½ | 45  | 31  | 14½ | 28  | 30  | 15  | 45½ | 46½ | 11½ | 13½ | 78  | 62  | 77½ | 60½ | 60½ | 48                | 2½                | ½                          |
| 90   |     | 34½ | 34½ | 49  | 39  | 33½ | 45  | 34  | 16½ | 30  | 34  | 17  | 47½ | 49½ | 12½ | 20  | 88  | 69  | 78½ | 65½ | 64½ | 54                | 2½                | ½                          |
| 100  |     | 36½ | 36½ | 55  | 43  | 34½ | 50½ | 37  | 18½ | 31½ | 38  | 20  | 50½ | 51  | 18½ | 20  | 98  | 73  | 85  | 69½ | 70½ | 60                | 2½                | ½                          |

Note—Outlet for the 90° Exhauster is rectangular, 30½" × 28¾"; that for the 100° is 32¾" × 32½"

# Double Steel Plate Planing Mill Exhauster Design 1

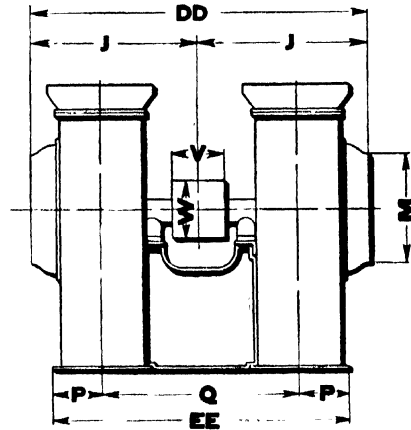
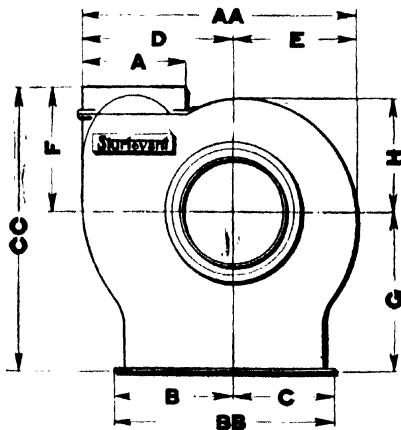
Single Inlet

Single Width

Full Housing

Up Blast Discharge

Overhung Wheel



| Fan Size | A  | B  | C  | D  | E  | F  | G  | H  | J  | M  | P  | Q  | V  | W  | AA | BB | CC | DD  | EE  | Wheel Diameter | Shaft Diameter | Anchor Bolts |        |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|-----|----------------|----------------|--------------|--------|
|          |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |     |                |                | Fan          | Hanger |
| 30       | 11 | 12 | 10 | 16 | 13 | 13 | 16 | 11 | 20 | 11 | 6  | 25 | 6  | 6  | 29 | 23 | 29 | 41  | 37  | 18             | 1              | 1            | 1      |
| 35       | 13 | 15 | 12 | 18 | 15 | 16 | 19 | 13 | 24 | 13 | 7  | 29 | 7  | 7  | 34 | 27 | 35 | 49  | 44  | 21             | 1              | 1            | 1      |
| 40       | 14 | 17 | 14 | 22 | 18 | 18 | 23 | 16 | 27 | 15 | 8  | 33 | 8  | 8  | 41 | 32 | 41 | 54  | 49  | 24             | 1              | 1            | 1      |
| 45       | 16 | 19 | 16 | 25 | 21 | 21 | 25 | 19 | 29 | 17 | 9  | 36 | 9  | 9  | 46 | 35 | 46 | 59  | 54  | 27             | 1              | 1            | 1      |
| 50       | 18 | 23 | 20 | 27 | 23 | 24 | 28 | 21 | 32 | 19 | 10 | 39 | 10 | 10 | 50 | 44 | 52 | 64  | 59  | 30             | 1              | 1            | 1      |
| 55       | 20 | 24 | 20 | 30 | 25 | 25 | 31 | 22 | 35 | 21 | 10 | 42 | 11 | 11 | 55 | 45 | 56 | 71  | 64  | 33             | 2              | 1            | 1      |
| 60       | 22 | 26 | 22 | 33 | 27 | 26 | 33 | 24 | 37 | 23 | 11 | 45 | 11 | 12 | 60 | 48 | 60 | 75  | 67  | 36             | 2              | 1            | 1      |
| 70       | 25 | 29 | 24 | 37 | 30 | 28 | 39 | 27 | 39 | 25 | 13 | 51 | 12 | 16 | 68 | 54 | 68 | 79  | 81  | 42             | 2              | 1            | 1      |
| 80       | 30 | 31 | 31 | 43 | 35 | 32 | 45 | 31 | 43 | 30 | 15 | 57 | 12 | 20 | 78 | 62 | 77 | 86  | 87  | 48             | 2              | 1            | 1      |
| 90       |    | 34 | 34 | 49 | 39 | 33 | 45 | 34 | 47 | 34 | 17 | 61 | 18 | 21 | 88 | 69 | 78 | 94  | 95  | 54             | 2              | 1            | 1      |
| 100      |    | 36 | 36 | 55 | 43 | 34 | 52 | 37 | 51 | 38 | 20 | 65 | 20 | 26 | 98 | 73 | 86 | 102 | 105 | 60             | 2              | 1            | 1      |

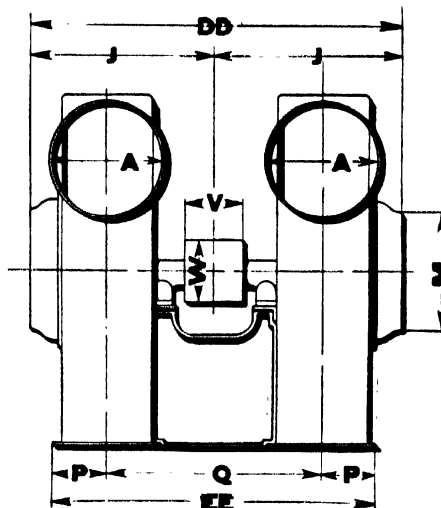
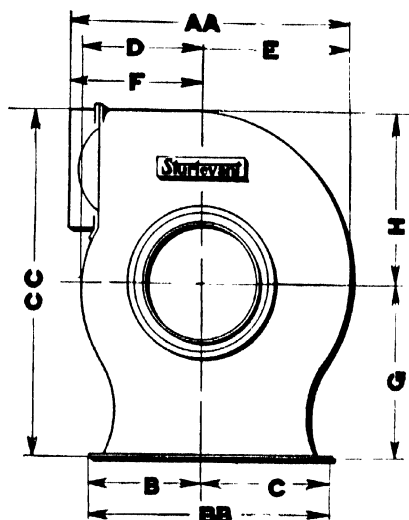
Note--Outlet for 90 mch exhauster is rectangular, 30x28, that for the 100 mch is 32x32.

Single Inlet **Double Steel Plate Planing Mill Exhauster** Single Width  
**Design 1**

Full Housing

Top Horizontal Discharge

Overhung Wheels



| Size | A   | B   | C   | D   | E   | F   | G   | H   | J   | M   | P   | Q   | V   | W   | AA  | BB  | CC   | DD  | EE  | Extreme Wheel Diameter | Shaft Diameter | Anchor Bolt Fan | Anchor Bolt Hanger |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|------------------------|----------------|-----------------|--------------------|
| 30   | 11  | 10½ | 12½ | 11½ | 14½ | 13½ | 16½ | 16  | 20½ | 11  | 6½  | 25  | 6   | 6¼  | 27½ | 23  | 32½  | 41½ | 37½ | 18                     | 1½             | ¾               | ¾                  |
| 35   | 13  | 12½ | 15  | 13½ | 17  | 16  | 19½ | 18½ | 24½ | 13  | 7½  | 29½ | 7   | 7¼  | 33  | 27½ | 38½  | 49½ | 44  | 21                     | 1½             | ¾               | ¾                  |
| 40   | 14½ | 14½ | 17½ | 16½ | 20½ | 18½ | 23½ | 22½ | 27½ | 15  | 8½  | 33  | 8   | 8   | 39  | 32  | 45½  | 54½ | 49½ | 21                     | 1½             | ¾               | ¾                  |
| 45   | 16½ | 16½ | 19½ | 19  | 23  | 21½ | 25½ | 25  | 29½ | 17  | 9½  | 36  | 9½  | 9½  | 44½ | 35½ | 50½  | 59  | 54½ | 27                     | 1½             | ¾               | ¾                  |
| 50   | 18½ | 20½ | 23½ | 21  | 25  | 24  | 28½ | 27  | 32½ | 19  | 10  | 39½ | 10½ | 10  | 49  | 44  | 55½  | 64½ | 59½ | 30                     | 1½             | ¾               | ¾                  |
| 55   | 20½ | 20½ | 24½ | 22½ | 27½ | 25  | 31½ | 30  | 35½ | 21  | 10½ | 42½ | 11  | 11½ | 52½ | 45  | 61½  | 71½ | 64  | 33                     | 2½             | ¾               | ¾                  |
| 60   | 22½ | 22  | 26  | 24  | 30  | 26½ | 33½ | 33  | 37½ | 23  | 11½ | 45  | 11½ | 12  | 56½ | 48  | 66½  | 75½ | 67½ | 36                     | 2½             | ¾               | ¾                  |
| 70   | 25½ | 24½ | 29½ | 27½ | 34½ | 28½ | 39½ | 37½ | 39½ | 25½ | 13½ | 54  | 12½ | 16  | 63  | 54  | 77   | 79½ | 81  | 42                     | 2½             | ¾               | ¾                  |
| 80   | 30  | 31  | 31  | 31  | 39  | 32½ | 45  | 43  | 43  | 30  | 15  | 57  | 12½ | 20  | 71½ | 62  | 88   | 86  | 87  | 48                     | 2½             | ¾               | ¾                  |
| 90   | 34½ | 34½ | 34  | 41  | 44  | 33½ | 45  | 49  | 47  | 34  | 17  | 61  | 18½ | 24  | 77½ | 69  | 94   | 94  | 95  | 54                     | 2½             | ¾               | ¾                  |
| 100  | 36½ | 36½ | 37  | 49  | 51  | 34½ | 52½ | 55  | 51  | 38  | 20  | 65  | 20½ | 26  | 83½ | 73  | 107½ | 102 | 105 | 60                     | 2½             | ¾               | ¾                  |

Note—Outlet for 90 inch exhauster is rectangular, 30½x28½; that for the 100 inch is 32½x32½.



# Single Inlet 30" Steel Plate Planing Mill Exhauster—Design 1 Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M. H. P. Static Pressure 1" Water .578 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1½" Water .878 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 2" Water 1.16 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 2½" Water 1.45 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 3" Water 1.73 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 3½" Water 2.02 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 4" Water 2.31 ozs. per sq. inch |
|--------|------------------|------------------|---|--|---|--|---|--|---|
| 765    | 3600             | 1 03             | 590 0 170   |  |   |  |   |  |   |
| 806    | 3800             | 1 15             | 766 0 225   |  |   |  |   |  |   |
| 850    | 4000             | 1 28             | 936 0 300   |  |   |  |   |  |   |
| 891    | 4200             | 1 41             | 1,000 0 360   |  |   |  |   |  |   |
| 935    | 4400             | 1 54             | 1,230 0 435   | 711 0 300  |   |  |   |  |   |
| 976    | 4600             | 1 69             | 1,380 0 51  | 891 0 395  |   |  |   |  |   |
| 1019   | 4800             | 1 84             | 1,500 0 62  | 1,070 0 49   |   |  |   |  |   |
| 1060   | 5000             | 2 00             | 1,630 0 71  | 1,230 0 60   |   |  |   |  |   |
| 1113   | 5250             | 2 20             | 1,770 0 84  | 1,420 0 73   | 980 0 56  |  |   |  |   |
| 1168   | 5500             | 2 42             | 1,920 0 99  | 1,580 0 88   | 1,200 0 72  |  |   |  |   |
| 1220   | 5750             | 2 54             | 2,040 1 10  | 1,750 1 00   | 1,400 0 88  |  |   |  |   |
| 1272   | 6000             | 2 87             | 2,200 1 35  | 1,920 1 20   | 1,580 1 05  | 1,210 0 87   |   |  |   |
| 1323   | 6250             | 3 12             | 2,330 1 55  | 2,070 1 40   | 1,780 1 25  | 1,420 1 10   |   |  |   |
| 1380   | 6500             | 3 38             | 2,450 1 75  | 2,210 1 60   | 1,950 1 45  | 1,620 1 30   | 1,260 1 10  |  |   |
| 1431   | 6750             | 3 63             | 2,570 2 00  | 2,360 1 85   | 2,110 1 70  | 1,810 1 55   | 1,470 1 35  |  |   |
| 1486   | 7000             | 3 91             | 2,690 2 25  | 2,500 2 10   | 2,260 1 95  | 1,980 1 75   | 1,660 1 60  | 1,340 1 40   |   |
| 1590   | 7500             | 4 50             | 2,920 2 8   | 2,760 2 65   | 2,580 2 45  | 2,320 2 35   | 2,060 2 15  | 1,760 1 95   | 1,460 1 70  |
| 1698   | 8000             | 5 11             |   | 3,020 3 3  | 2,850 3 10  | 2,640 3 00   | 2,410 2 75  | 2,150 2 55   | 1,870 2 35  |
| 1802   | 8500             | 5 76             |   | 3,260 4 0  | 3,110 3 85  | 2,940 3 60   | 2,730 3 40  | 2,490 3 30   | 2,240 3 10  |
| 1910   | 9000             | 6 46             |   | 3,480 4 8  | 3,370 4 6   | 3,220 4 35   | 3,020 4 25  | 2,830 4 05   | 2,600 3 85  |
| 2020   | 9500             | 7 20             |   | 3,720 5 7  | 3,600 5 5   | 3,490 5 3  | 3,320 5 1   | 3,150 4 9  | 2,940 4 7   |
| 2120   | 10000            | 7 98             |   | 3,960 6 8  | 3,850 6 6   | 3,730 6 4  | 3,600 6 2   | 3,430 6  | 3,260 5 7   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 4½" Water 2.6 ozs. per sq. inch                     | Static Pressure 5" Water 2.89 ozs. per sq. inch                      | Static Pressure 5½" Water 3.18 ozs. per sq. inch                    | Static Pressure 6" Water 3.47 ozs. per sq. inch                      | Static Pressure 7" Water 4.05 ozs. per sq. inch                     | Static Pressure 8" Water 4.63 ozs. per sq. inch                      | Static Pressure 9" Water 5.2 ozs. per sq. inch                      |
| 1500   | 7500             | 4 50             | 1,130 1 45  |  |   |  |   |  |   |
| 1608   | 8000             | 5 11             | 1,580 2 05  | 1,300 1 80   |   |  |   |  |   |
| 1802   | 8500             | 5 76             | 1,900 2 70  | 1,710 2 50   | 1,440 2 25  |  |   |  |   |
| 1910   | 9000             | 6 46             | 2,370 3 55  | 2,110 3 35   | 1,800 3 05  | 1,610 2 80   |   |  |   |
| 2020   | 9500             | 7 20             | 2,740 4 5   | 2,510 4 25   | 2,270 3 95  | 2,030 3 65   | 1,550 3 05  |  |   |
| 2120   | 10000            | 7 98             | 3,080 5 5   | 2,890 5 3  | 2,680 4 95  | 2,440 4 7  | 1,970 4 1   | 1,510 3 40   |   |
| 2230   | 10500            | 8 78             | 3,400 6 6   | 3,220 6 4  | 3,040 6 1   | 2,830 5 8  | 2,390 5 2   | 1,950 4 55   |   |
| 2335   | 11000            | 9 71             | 3,700 7 7   | 3,540 7 5  | 3,390 7 3   | 3,180 7 0  | 2,800 6 4   | 2,380 5 8  | 1,960 5 0   |
| 2440   | 11500            | 10 6             | 3,980 9 0   | 3,850 8 8  | 3,670 8 6   | 3,500 8 3  | 3,170 7 7   | 2,800 7 1  | 2,420 6 5   |
| 2540   | 12000            | 11 5             | 4,260 10 5  | 4,130 10 0   | 3,970 9 9   | 3,800 9 6  | 3,520 9 1   | 3,170 8 6  | 2,830 7 9   |
| 2650   | 12500            | 12 5             | 4,530 12 0  | 4,410 11 5   | 4,260 11 5  | 4,120 11 0   | 3,840 10 5  | 3,520 10 0   | 3,190 9 4   |
| 2760   | 13000            | 13 5             | 4,800 13 5  | 4,680 13   | 4,550 13  | 4,420 12 5   | 4,150 12  | 3,850 11 5   | 3,540 11  |
| 2860   | 13500            | 14 5             |   |  |   | 4,720 14 5   | 4,450 14  | 4,180 13 5   | 3,800 13  |
| 2970   | 14000            | 15 7             |   |  |   |  | 4,750 16  | 4,510 15 5   | 4,230 15  |
| 3070   | 14500            | 16 8             |   |  |   |  | 5,050 18  | 4,820 17 5   | 4,570 17  |
| 3180   | 15000            | 18               |   |  |   |  | 5,340 20  | 5,140 20   | 4,900 19  |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 10" Water 5.78 ozs. per sq. inch                    | Static Pressure 11" Water 6.36 ozs. per sq. inch                     | Static Pressure 12" Water 6.93 ozs. per sq. inch                    | Static Pressure 13" Water 7.52 ozs. per sq. inch                     | Static Pressure 14" Water 8.1 ozs. per sq. inch                     | Static Pressure 15" Water 8.68 ozs. per sq. inch                     | Static Pressure 16" Water 9.25 ozs. per sq. inch                    |
| 2440   | 11500            | 10 6             | 1,960 5 6   |  |   |  |   |  |   |
| 2540   | 12000            | 11 5             | 2,330 7 1   | 1,960 6 4  |   |  |   |  |   |
| 2650   | 12500            | 12 5             | 2,850 8 6   | 2,450 7 8  | 2,070 7 2   |  |   |  |   |
| 2760   | 13000            | 13 5             | 3,230 10 5  | 2,880 9 5  | 2,510 8 8   | 2,150 8 0  |   |  |   |
| 2860   | 13500            | 14 5             | 3,600 12 5  | 3,260 11 5   | 2,920 10 5  | 2,620 9 8  | 2,240 9 0   |  |   |
| 2970   | 14000            | 15 7             | 3,980 14 5  | 3,630 13 5   | 3,320 13  | 3,040 12 0   | 2,700 11 0  | 2,350 10 0   |   |
| 3070   | 14500            | 16 8             | 4,310 16 5  | 4,010 15 5   | 3,720 15  | 3,430 14 0   | 3,110 13 5  | 2,800 12 5   | 2,450 11 5  |
| 3180   | 15000            | 18               | 4,670 18 5  | 4,380 18   | 4,110 17  | 3,800 16 5   | 3,500 15 5  | 3,220 14 5   | 2,900 13 5  |

# Single Inlet 35" Steel Plate Planing Mill Exhauster — Design 1 Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances.

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M. H. P. Static Pressure 1" Water .578 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1½" Water .878 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 2" Water 1.16 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 2½" Water 1.45 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 3" Water 1.73 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 3½" Water 2.02 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 4" Water 2.31 ozs. per sq. inch |
|--------|------------------|------------------|---|--|---|--|---|--|---|
| 655    | 3600             | 1.03             | 884 0.250   |  |   |  |   |  |   |
| 690    | 3800             | 1.15             | 1,150 0.335   |  |   |  |   |  |   |
| 727    | 4000             | 1.28             | 1,400 0.445   |  |   |  |   |  |   |
| 764    | 4250             | 1.41             | 1,630 0.54  |  |   |  |   |  |   |
| 800    | 4400             | 1.54             | 1,840 0.65  | 1,070 0.445  |   |  |   |  |   |
| 837    | 4600             | 1.69             | 2,070 0.77  | 1,340 0.59   |   |  |   |  |   |
| 873    | 4800             | 1.84             | 2,250 0.93  | 1,590 0.73   |   |  |   |  |   |
| 910    | 5000             | 2.00             | 2,450 1.05  | 1,830 0.89   |   |  |   |  |   |
| 955    | 5250             | 2.20             | 2,660 1.25  | 2,120 1.10   | 1,470 0.85  |  |   |  |   |
| 1000   | 5500             | 2.42             | 2,880 1.50  | 2,380 1.30   | 1,790 1.10  |  |   |  |   |
| 1046   | 5750             | 2.54             | 3,050 1.65  | 2,630 1.50   | 2,100 1.30  |  |   |  |   |
| 1090   | 6000             | 2.87             | 3,280 2.00  | 2,870 1.80   | 2,370 1.60  | 1,810 1.35   |   |  |   |
| 1137   | 6250             | 3.12             | 3,490 2.35  | 3,100 2.10   | 2,670 1.90  | 2,130 1.65   |   |  |   |
| 1181   | 6500             | 3.38             | 3,670 2.65  | 3,320 2.40   | 2,920 2.15  | 2,430 2.00   | 1,890 1.65  |  |   |
| 1228   | 6750             | 3.63             | 3,850 3.00  | 3,540 2.75   | 3,160 2.55  | 2,720 2.30   | 2,200 2.00  |  |   |
| 1271   | 7000             | 3.91             | 4,020 3.35  | 3,730 3.10   | 3,380 2.90  | 2,970 2.65   | 2,530 2.40  | 2,020 2.05   |   |
| 1362   | 7500             | 4.50             | 4,370 4.3   | 4,150 4.00   | 3,860 3.65  | 3,480 3.50   | 3,080 3.20  | 2,630 2.90   | 2,180 2.55  |
| 1453   | 8000             | 5.11             |   | 4,530 4.95   | 4,270 4.6   | 3,960 4.45   | 3,600 4.15  | 3,220 3.80   | 2,800 3.5   |
| 1545   | 8500             | 5.76             |   | 4,880 6.1  | 4,650 5.7   | 4,400 5.4  | 4,080 5.1   | 3,730 4.95   | 3,350 4.6   |
| 1637   | 9000             | 6.46             |   | 5,230 7.2  | 5,040 6.9   | 4,810 6.5  | 4,530 6.4   | 4,250 6.1  | 3,890 5.7   |
| 1728   | 9500             | 7.20             |   | 5,580 8.6  | 5,390 8.3   | 5,230 8.0  | 4,970 7.7   | 4,720 7.3  | 4,400 7.0   |
| 1819   | 10000            | 7.98             |   | 5,930 10   | 5,770 9.9   | 5,580 9.6  | 5,390 9.3   | 5,140 8.9  | 4,880 8.6   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 4½" Water 2.6 ozs. per sq. inch                     | Static Pressure 5" Water 2.89 ozs. per sq. inch                      | Static Pressure 5½" Water 3.18 ozs. per sq. inch                    | Static Pressure 6" Water 3.47 ozs. per sq. inch                      | Static Pressure 7" Water 4.05 ozs. per sq. inch                     | Static Pressure 8" Water 4.63 ozs. per sq. inch                      | Static Pressure 9" Water 5.2 ozs. per sq. inch                      |
| 1363   | 7500             | 4.50             | 1,690 2.15  |  |   |  |   |  |   |
| 1454   | 8000             | 5.11             | 2,380 3.1   | 1,950 2.75   |   |  |   |  |   |
| 1545   | 8500             | 5.76             | 2,900 4.1   | 2,570 3.75   | 2,160 3.4   |  |   |  |   |
| 1636   | 9000             | 6.46             | 3,500 5.3   | 3,170 5.0  | 2,790 4.6   | 2,410 4.15   |   |  |   |
| 1728   | 9500             | 7.20             | 4,100 6.8   | 3,760 6.4  | 3,410 6.0   | 3,040 5.5  | 2,330 4.6   |  |   |
| 1820   | 10000            | 7.98             | 4,620 8.2   | 4,330 7.9  | 4,020 7.5   | 3,660 7.0  | 2,950 6.1   |  |   |
| 1910   | 10500            | 8.78             | 5,110 9.9   | 4,830 9.6  | 4,500 9.2   | 4,250 8.6  | 3,580 7.8   | 2,920 6.8  |   |
| 2000   | 11000            | 9.71             | 5,550 11.5  | 5,310 11.5   | 5,050 11.0  | 4,760 10.5   | 4,200 9.6   | 3,570 8.7  | 2,940 7.5   |
| 2090   | 11500            | 10.6             | 5,970 13.5  | 5,770 13.0   | 5,500 13.0  | 5,250 12.5   | 4,760 11.5  | 4,200 10.5   | 3,630 9.7   |
| 2182   | 12000            | 11.5             | 6,390 15.5  | 6,200 15.0   | 5,950 15.0  | 5,700 14.5   | 5,280 13.5  | 4,750 13.0   | 4,250 12.0  |
| 2274   | 12500            | 12.5             | 6,800 18  | 6,610 17.5   | 6,390 17.0  | 6,180 16.5   | 5,760 16.0  | 5,280 15.0   | 4,780 14.0  |
| 2365   | 13000            | 13.5             | 7,200 20  | 7,020 20   | 6,830 19.5  | 6,640 19   | 6,220 18.5  | 5,780 17.5   | 5,310 16.5  |
| 2455   | 13500            | 14.5             |   |  |   | 7,080 22   | 6,680 21  | 6,280 20.5   | 5,840 19.5  |
| 2545   | 14000            | 15.7             |   |  |   |  | 7,130 24  | 6,770 23.5   | 6,350 22.5  |
| 2640   | 14500            | 16.8             |   |  |   |  | 7,570 27  | 7,240 27   | 6,850 25  |
| 2730   | 15000            | 18               |   |  |   |  | 8,010 30  | 7,710 30   | 7,350 29  |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 10" Water 5.78 ozs. per sq. inch                    | Static Pressure 11" Water 6.36 ozs. per sq. inch                     | Static Pressure 12" Water 6.93 ozs. per sq. inch                    | Static Pressure 13" Water 7.52 ozs. per sq. inch                     | Static Pressure 14" Water 8.1 ozs. per sq. inch                     | Static Pressure 15" Water 8.68 ozs. per sq. inch                     | Static Pressure 16" Water 9.25 ozs. per sq. inch                    |
| 2090   | 11500            | 10.6             | 2,940 8.5   |  |   |  |   |  |   |
| 2182   | 12000            | 11.5             | 3,640 10.5  | 2,940 9.5  |   |  |   |  |   |
| 2274   | 12500            | 12.5             | 4,280 13.0  | 3,680 11.5   | 3,100 10.5  |  |   |  |   |
| 2365   | 13000            | 13.5             | 4,850 15.5  | 4,320 14.5   | 3,760 13.0  | 3,220 12.0   |   |  |   |
| 2455   | 13500            | 14.5             | 5,400 18.5  | 4,890 17.0   | 4,380 16.0  | 3,930 14.5   | 3,360 13.5  |  |   |
| 2545   | 14000            | 15.7             | 5,940 21.5  | 5,450 20.0   | 4,980 19.0  | 4,500 18.0   | 4,050 16.5  | 3,520 15.0   |   |
| 2640   | 14500            | 16.8             | 6,470 24.5  | 6,020 23.5   | 5,570 22.5  | 5,140 21.0   | 4,670 20.0  | 4,200 18.5   | 3,680 17.0  |
| 2730   | 15000            | 18               | 7,000 28  | 6,570 27   | 6,150 26  | 5,700 24.5   | 5,250 23.0  | 4,830 22   | 4,350 20.5  |

# Single Inlet 40" Steel Plate Planing Mill Exhauster—Design 1 Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.                                    | H. P. | Volume C.F.M.                                    | H. P. | Volume C.F.M.                                    | H. P. | Volume C.F.M.                                    | H. P. | Volume C.F.M.                                   | H. P. | Volume C.F.M.                                    | H. P. | Volume C.F.M.                                    | H. P. |
|--------|------------------|------------------|--|-------|--|-------|--|-------|--|-------|---|-------|--|-------|--|-------|
|        |                  |                  | Static Pressure 1" Water .578 ozs. per sq. inch  |       | Static Pressure 1½" Water .878 ozs. per sq. inch |       | Static Pressure 2" Water 1.16 ozs. per sq. inch  |       | Static Pressure 2½" Water 1.45 ozs. per sq. inch |       | Static Pressure 3" Water 1.73 ozs. per sq. inch |       | Static Pressure 3½" Water 2.02 ozs. per sq. inch |       | Static Pressure 4" Water 2.31 ozs. per sq. inch  |       |
| 578    | 3600             | 1 03             | 1,160  | 0.33  |  |       |  |       |  |       |   |       |  |       |  |       |
| 605    | 3800             | 1 15             | 1,500  | 0.44  |  |       |  |       |  |       |   |       |  |       |  |       |
| 637    | 4000             | 1 28             | 1,840  | 0.58  |  |       |  |       |  |       |   |       |  |       |  |       |
| 670    | 4200             | 1 41             | 2,130  | 0.71  |  |       |  |       |  |       |   |       |  |       |  |       |
| 700    | 4400             | 1 54             | 2,410  | 0.86  | 1,390  | 0.58  |  |       |  |       |   |       |  |       |  |       |
| 732    | 4600             | 1 69             | 2,710  | 1.00  | 1,750  | 0.77  |  |       |  |       |   |       |  |       |  |       |
| 765    | 4800             | 1 84             | 2,950  | 1.20  | 2,090  | 0.96  |  |       |  |       |   |       |  |       |  |       |
| 796    | 5000             | 2 00             | 3,200  | 1.40  | 2,400  | 1.15  |  |       |  |       |   |       |  |       |  |       |
| 836    | 5250             | 2 20             | 3,480  | 1.65  | 2,780  | 1.45  | 1,920  | 1.10  |  |       |   |       |  |       |  |       |
| 875    | 5500             | 2 42             | 3,760  | 1.95  | 3,120  | 1.75  | 2,340  | 1.40  |  |       |   |       |  |       |  |       |
| 915    | 5750             | 2 54             | 3,990  | 2.15  | 3,440  | 1.95  | 2,740  | 1.75  |  |       |   |       |  |       |  |       |
| 955    | 6000             | 2 87             | 4,300  | 2.65  | 3,760  | 2.40  | 3,100  | 2.10  | 2,360  | 1.75  |   |       |  |       |  |       |
| 996    | 6250             | 3 12             | 4,560  | 3.05  | 4,060  | 2.75  | 3,500  | 2.45  | 2,780  | 2.15  |   |       |  |       |  |       |
| 1034   | 6500             | 3 38             | 4,800  | 3.45  | 4,340  | 3.15  | 3,820  | 2.85  | 3,180  | 2.60  | 2,470   | 2.15  |  |       |  |       |
| 1074   | 6750             | 3 63             | 5,040  | 3.9   | 4,630  | 3.6   | 4,130  | 3.35  | 3,550  | 3.00  | 2,880   | 2.65  |  |       |  |       |
| 1115   | 7000             | 3 91             | 5,250  | 4.4   | 4,880  | 4.1   | 4,420  | 3.8   | 3,880  | 3.45  | 3,300   | 3.15  | 2,640  | 2.7   |  |       |
| 1193   | 7500             | 4 50             | 5,710  | 5.6   | 5,120  | 5.2   | 5,050  | 4.8   | 4,550  | 4.6   | 4,040   | 4.15  | 3,440  | 3.8   | 2,850  | 3.35  |
| 1273   | 8000             | 5 11             |  |       | 5,910  | 6.5   | 5,590  | 6.0   | 5,170  | 5.8   | 4,710   | 5.4   | 4,210  | 5.0   | 3,660  | 4.6   |
| 1352   | 8500             | 5 76             |  |       | 6,390  | 7.9   | 6,090  | 7.5   | 5,750  | 7.1   | 5,340   | 6.7   | 4,890  | 6.5   | 4,390  | 6.0   |
| 1433   | 9000             | 6 46             |  |       | 6,830  | 9.4   | 6,600  | 9     | 6,300  | 8.6   | 5,930   | 8.3   | 5,550  | 7.9   | 5,100  | 7.5   |
| 1511   | 9500             | 7 20             |  |       | 7,300  | 11.5  | 7,050  | 11    | 6,850  | 10.5  | 6,500   | 10    | 6,180  | 9.6   | 5,750  | 9.2   |
| 1591   | 10000            | 7 98             |  |       | 7,760  | 13.5  | 7,550  | 13    | 7,300  | 12.5  | 7,050   | 12    | 6,720  | 11.5  | 6,390  | 11.5  |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 4½" Water 2.6 ozs. per sq. inch  |       | Static Pressure 5" Water 2.89 ozs. per sq. inch  |       | Static Pressure 5½" Water 3.18 ozs. per sq. inch |       | Static Pressure 6" Water 3.47 ozs. per sq. inch  |       | Static Pressure 7" Water 4.05 ozs. per sq. inch |       | Static Pressure 8" Water 4.63 ozs. per sq. inch  |       | Static Pressure 9" Water 5.2 ozs. per sq. inch   |       |
| 1190   | 7500             | 4 50             | 2,210  | 2.80  |  |       |  |       |  |       |   |       |  |       |  |       |
| 1270   | 8000             | 5 11             | 3,100  | 4.05  | 2,550  | 3.55  |  |       |  |       |   |       |  |       |  |       |
| 1350   | 8500             | 5 76             | 3,900  | 5.3   | 3,350  | 4.9   | 2,820  | 4.4   |  |       |   |       |  |       |  |       |
| 1430   | 9000             | 6 46             | 4,640  | 7.0   | 4,140  | 6.6   | 3,640  | 6.0   | 3,150  | 5.4   |   |       |  |       |  |       |
| 1510   | 9500             | 7 20             | 5,360  | 8.8   | 4,910  | 8.3   | 4,450  | 7.8   | 3,970  | 7.2   | 3,040   | 6.0   |  |       |  |       |
| 1590   | 10000            | 7 98             | 6,030  | 11.0  | 5,650  | 10.5  | 5,250  | 9.7   | 4,770  | 9.2   | 3,860   | 8.0   | 2,960  | 6.7   |  |       |
| 1670   | 10500            | 8 78             | 6,660  | 13.0  | 6,310  | 12.5  | 5,960  | 12.0  | 5,540  | 11.5  | 4,680   | 10.0  | 3,800  | 8.9   |  |       |
| 1750   | 11000            | 9 71             | 7,250  | 15.0  | 6,940  | 15    | 6,600  | 14.5  | 6,210  | 13.5  | 5,480   | 12.5  | 4,670  | 11.5  | 3,840  | 9.8   |
| 1830   | 11500            | 10 6             | 7,790  | 17.5  | 7,530  | 17    | 7,180  | 17.0  | 6,850  | 16.0  | 6,220   | 15    | 5,470  | 14.0  | 4,740  | 12.5  |
| 1910   | 12000            | 11 5             | 8,340  | 20    | 8,090  | 20    | 7,770  | 19.5  | 7,450  | 19.0  | 6,900   | 18    | 6,200  | 16.5  | 5,540  | 15.5  |
| 1990   | 12500            | 12 5             | 8,860  | 23    | 8,640  | 23    | 8,340  | 22    | 8,060  | 21.5  | 7,520   | 21    | 6,900  | 19.5  | 6,250  | 18.5  |
| 2070   | 13000            | 13 5             | 9,400  | 26    | 9,160  | 26    | 8,910  | 25    | 8,660  | 25    | 8,120   | 24    | 7,540  | 23    | 6,930  | 21.5  |
| 2150   | 13500            | 14 5             |  |       |  |       |  |       | 9,240  | 28    | 8,720   | 27    | 8,190  | 26    | 7,610  | 25    |
| 2225   | 14000            | 15 7             |  |       |  |       |  |       |  |       | 9,300   | 31    | 8,820  | 31    | 8,280  | 29    |
| 2305   | 14500            | 16 8             |  |       |  |       |  |       |  |       | 9,890   | 35    | 9,450  | 35    | 8,950  | 33    |
| 2385   | 15000            | 18               |  |       |  |       |  |       |  |       | 10,500  | 40    | 10,100   | 39    | 9,600  | 37    |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 10" Water 5.78 ozs. per sq. inch |       | Static Pressure 11" Water 6.36 ozs. per sq. inch |       | Static Pressure 12" Water 6.93 ozs. per sq. inch |       | Static Pressure 13" Water 7.52 ozs. per sq. inch |       | Static Pressure 14" Water 8.1 ozs. per sq. inch |       | Static Pressure 15" Water 8.68 ozs. per sq. inch |       | Static Pressure 16" Water 9.25 ozs. per sq. inch |       |
| 1830   | 11500            | 10 6             | 3,840  | 11    |  |       |  |       |  |       |   |       |  |       |  |       |
| 1910   | 12000            | 11 5             | 4,760  | 14    | 3,840  | 12.5  |  |       |  |       |   |       |  |       |  |       |
| 1990   | 12500            | 12 5             | 5,600  | 17    | 4,800  | 15.5  | 4,050  | 14.0  |  |       |   |       |  |       |  |       |
| 2070   | 13000            | 13 5             | 6,330  | 20    | 5,620  | 18.5  | 4,920  | 17.5  | 4,210  | 15.5  |   |       |  |       |  |       |
| 2150   | 13500            | 14 5             | 7,050  | 24    | 6,380  | 22.5  | 5,720  | 21    | 5,130  | 19.0  | 4,400   | 17.5  |  |       |  |       |
| 2225   | 14000            | 15 7             | 7,780  | 28    | 7,120  | 26    | 6,500  | 25    | 5,960  | 23.5  | 5,290   | 21.5  | 4,610  | 20    |  |       |
| 2305   | 14500            | 16 8             | 8,450  | 32    | 7,850  | 31    | 7,270  | 29    | 6,710  | 28    | 6,100   | 26    | 5,490  | 24    | 4,800  | 22    |
| 2385   | 15000            | 18               | 9,120  | 36    | 8,560  | 35    | 8,020  | 34    | 7,450  | 32    | 6,870   | 30    | 6,320  | 29    | 5,680  | 27    |

# Single Inlet 45° Steel Plate Planing Mill Exhauster—Design 1 Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.<br>Static Pressure<br>1" Water<br>.578 ozs. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure<br>1½" Water<br>.878 ozs. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure<br>2" Water<br>1.16 ozs. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure<br>2½" Water<br>1.45 ozs. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure<br>3" Water<br>1.73 ozs. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure<br>3½" Water<br>2.02 ozs. per sq. inch | H. P. | Volume C.F.M.<br>Static Pressure<br>4" Water<br>2.31 ozs. per sq. inch | H. P. |
|--------|------------------|------------------|--|-------|---|-------|--|-------|---|-------|--|-------|---|-------|--|-------|
| 510    | 3600             | 1 03             | 1.160  | 0.415 |   |       |  |       |   |       |  |       |   |       |  |       |
| 537    | 3800             | 1 15             | 1.900  | 0.55  |   |       |  |       |   |       |  |       |   |       |  |       |
| 566    | 4000             | 1 28             | 2.320  | 0.74  |   |       |  |       |   |       |  |       |   |       |  |       |
| 595    | 4200             | 1 41             | 2.690  | 0.90  |   |       |  |       |   |       |  |       |   |       |  |       |
| 622    | 4400             | 1 54             | 3.050  | 1.10  | 1.760   | 0.74  |  |       |   |       |  |       |   |       |  |       |
| 651    | 4600             | 1 69             | 3.420  | 1.25  | 2.210   | 0.98  |  |       |   |       |  |       |   |       |  |       |
| 680    | 4800             | 1 84             | 3.720  | 1.55  | 2.640   | 1.20  |  |       |   |       |  |       |   |       |  |       |
| 707    | 5000             | 2 00             | 4.050  | 1.75  | 3.030   | 1.50  |  |       |   |       |  |       |   |       |  |       |
| 743    | 5250             | 2 20             | 4.400  | 2.10  | 3.510   | 1.80  | 2.420  | 1.40  |   |       |  |       |   |       |  |       |
| 779    | 5500             | 2 42             | 4.760  | 2.45  | 3.940   | 2.20  | 2.960  | 1.80  |   |       |  |       |   |       |  |       |
| 814    | 5750             | 2 51             | 5.050  | 2.75  | 4.340   | 2.50  | 3.160  | 2.20  |   |       |  |       |   |       |  |       |
| 850    | 6000             | 2 87             | 5.430  | 3.30  | 4.750   | 3.00  | 3.920  | 2.65  | 2.980   | 2.20  |  |       |   |       |  |       |
| 885    | 6250             | 3 12             | 5.770  | 3.90  | 5.120   | 3.50  | 4.410  | 3.1   | 3.500   | 2.75  |  |       |   |       |  |       |
| 920    | 6500             | 3 38             | 6.060  | 4.40  | 5.480   | 4.00  | 4.830  | 3.6   | 4.010   | 3.25  | 3.020  | 2.75  |   |       |  |       |
| 955    | 6750             | 3 63             | 6.360  | 4.95  | 5.850   | 4.55  | 5.210  | 4.2   | 4.490   | 3.80  | 3.640  | 3.3   |   |       |  |       |
| 990    | 7000             | 3 91             | 6.650  | 5.5   | 6.160   | 5.2   | 5.590  | 4.8   | 4.900   | 4.35  | 4.170  | 4.0   | 3.330   | 3.45  |  |       |
| 1060   | 7500             | 4 50             | 7.220  | 7.1   | 6.850   | 6.6   | 6.380  | 6.1   | 5.750   | 5.8   | 5.100  | 5.3   | 4.350   | 4.8   | 3.600  | 4.2   |
| 1131   | 8000             | 5 11             |  |       | 7.490   | 8.2   | 7.060  | 7.6   | 6.540   | 7.4   | 5.950  | 6.9   | 5.320   | 6.3   | 4.620  | 5.8   |
| 1201   | 8500             | 5 46             |  |       | 8.070   | 10    | 7.700  | 9.5   | 7.270   | 9     | 6.750  | 8.4   | 6.160   | 8.2   | 5.540  | 7.6   |
| 1273   | 9000             | 6 46             |  |       | 8.650   | 12    | 8.330  | 11.5  | 7.900   | 11    | 7.480  | 10.5  | 7.010   | 10    | 6.430  | 9.5   |
| 1343   | 9500             | 7 20             |  |       | 9.230   | 14    | 8.900  | 13.5  | 8.650   | 13    | 8.220  | 12.5  | 7.800   | 12    | 7.270  | 11.5  |
| 1414   | 10000            | 7 98             |  |       | 9.800   | 17    | 9.550  | 16.5  | 9.220   | 16    | 8.900  | 15.5  | 8.490   | 15    | 8.060  | 14    |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure<br>4½" Water<br>2.6 ozs. per sq. inch                  |       | Static Pressure<br>5" Water<br>2.89 ozs. per sq. inch                   |       | Static Pressure<br>5½" Water<br>3.18 ozs. per sq. inch                 |       | Static Pressure<br>6" Water<br>3.47 ozs. per sq. inch                   |       | Static Pressure<br>7" Water<br>4.05 ozs. per sq. inch                  |       | Static Pressure<br>8" Water<br>4.63 ozs. per sq. inch                   |       | Static Pressure<br>9" Water<br>5.2 ozs. per sq. inch                   |       |
| 1064   | 7500             | 4 50             | 2.800  | 3.55  |   |       |  |       |   |       |  |       |   |       |  |       |
| 1135   | 8000             | 5 11             | 3.930  | 5.1   | 3.230   | 4.5   |  |       |   |       |  |       |   |       |  |       |
| 1205   | 8500             | 5 46             | 4.940  | 6.7   | 4.240   | 6.2   | 3.570  | 5.6   |   |       |  |       |   |       |  |       |
| 1278   | 9000             | 6 46             | 5.880  | 8.8   | 5.230   | 8.3   | 4.610  | 7.6   | 3.990   | 6.9   |  |       |   |       |  |       |
| 1350   | 9500             | 7 20             | 6.780  | 11.0  | 6.220   | 10.5  | 5.640  | 9.8   | 5.030   | 9.1   | 3.850  | 7.6   |   |       |  |       |
| 1420   | 10000            | 7 98             | 7.640  | 13.5  | 7.150   | 13.0  | 6.640  | 12.5  | 6.050   | 11.5  | 4.880  | 10.0  | 3.750   | 8.4   |  |       |
| 1490   | 10500            | 8.78             | 8.410  | 16.5  | 7.990   | 16.0  | 7.540  | 15.0  | 7.010   | 14.5  | 5.920  | 13.0  | 4.820   | 11.5  |  |       |
| 1560   | 11000            | 9 71             | 9.180  | 19    | 8.780   | 18.5  | 8.350  | 18.0  | 7.860   | 17.5  | 6.940  | 16.0  | 5.910   | 14.5  | 4.870  | 12.5  |
| 1630   | 11500            | 10.6             | 9.860  | 22    | 9.540   | 22    | 9.100  | 21.0  | 8.670   | 20.5  | 7.870  | 19.0  | 6.930   | 17.5  | 6.000  | 16.0  |
| 1700   | 12000            | 11 5             | 10.600   | 26    | 10.200  | 25    | 9.840  | 24.5  | 9.420   | 24    | 8.730  | 22.5  | 7.850   | 21    | 7.010  | 19.5  |
| 1770   | 12500            | 12 5             | 11.200   | 30    | 10.900  | 29    | 10.600   | 28    | 10.200  | 27    | 9.520  | 26    | 8.740   | 25    | 7.900  | 23    |
| 1840   | 13000            | 13 5             | 11.900   | 33    | 11.600  | 32    | 11.300   | 32    | 11.000  | 32    | 10.300   | 30    | 9.550   | 29    | 8.780  | 27    |
| 1910   | 13500            | 14 5             |  |       |   |       |  |       | 11.700  | 36    | 11.000   | 35    | 10.400  | 34    | 9.640  | 32    |
| 1980   | 14000            | 15 7             |  |       |   |       |  |       |   |       | 11.800   | 40    | 11.200  | 39    | 10.500   | 37    |
| 2050   | 14500            | 16 8             |  |       |   |       |  |       |   |       | 12.500   | 45    | 12.000  | 44    | 11.300   | 42    |
| 2120   | 15000            | 18               |  |       |   |       |  |       |   |       | 13.300   | 50    | 12.700  | 49    | 12.200   | 47    |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure<br>10" Water<br>5.75 ozs. per sq. inch                 |       | Static Pressure<br>11" Water<br>6.36 ozs. per sq. inch                  |       | Static Pressure<br>12" Water<br>6.93 ozs. per sq. inch                 |       | Static Pressure<br>13" Water<br>7.52 ozs. per sq. inch                  |       | Static Pressure<br>14" Water<br>8.1 ozs. per sq. inch                  |       | Static Pressure<br>15" Water<br>8.68 ozs. per sq. inch                  |       | Static Pressure<br>16" Water<br>9.25 ozs. per sq. inch                 |       |
| 1630   | 11500            | 10 6             | 4.870  | 14.0  |   |       |  |       |   |       |  |       |   |       |  |       |
| 1700   | 12000            | 11 5             | 6.020  | 17.5  | 4.870   | 15.5  |  |       |   |       |  |       |   |       |  |       |
| 1770   | 12500            | 12 5             | 7.070  | 21.5  | 6.080   | 19.5  | 5.130  | 17.5  |   |       |  |       |   |       |  |       |
| 1840   | 13000            | 13 5             | 8.010  | 25    | 7.140   | 23.5  | 6.230  | 22.0  | 5.330   | 20.0  |  |       |   |       |  |       |
| 1910   | 13500            | 14 5             | 8.930  | 30    | 8.090   | 28    | 7.250  | 27    | 6.510   | 24.5  | 5.570  | 22    |   |       |  |       |
| 1980   | 14000            | 15 7             | 9.820  | 35    | 9.020   | 34    | 8.240  | 32    | 7.550   | 30    | 6.700  | 27    |   |       |  |       |
| 2050   | 14500            | 16 8             | 10.700   | 41    | 9.950   | 39    | 9.220  | 37    | 8.500   | 35    | 7.720  | 33    | 6.950   | 31    | 6.080  | 28    |
| 2120   | 15000            | 18               | 11.500   | 46    | 10.900  | 44    | 10.200   | 42    | 9.440   | 41    | 8.700  | 38    | 8.000   | 36    | 7.200  | 34    |

# Single Inlet 50" Steel Plate Planing Mill Exhauster—Design 1 Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M. H. P. Static Pressure 1" Water .578 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1½" Water .878 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 2" Water 1.16 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 2½" Water 1.45 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 3" Water 1.73 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 3½" Water 2.02 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 4" Water 2.31 ozs. per sq. inch |
|--------|------------------|------------------|---|--|---|--|---|--|---|
| 458    | 3600             | 1 03             | 1,810 0 52  |  |   |  |   |  |   |
| 484    | 3800             | 1 15             | 2,350 0 69  |  |   |  |   |  |   |
| 510    | 4000             | 1 28             | 2,870 0 91  |  |   |  |   |  |   |
| 535    | 4200             | 1 41             | 3,330 1 10  |  |   |  |   |  |   |
| 560    | 4400             | 1 54             | 3,770 1 35  | 2,180 0 91   |   |  |   |  |   |
| 585    | 4600             | 1 69             | 4,230 1 55  | 2,730 1 20   |   |  |   |  |   |
| 611    | 4800             | 1 84             | 4,600 1 90  | 3,260 1 50   |   |  |   |  |   |
| 636    | 5000             | 2 00             | 5,000 2 20  | 3,750 1 85   |   |  |   |  |   |
| 660    | 5250             | 2 20             | 5,440 2 55  | 4,340 2 20   | 3,000 1 75  |  |   |  |   |
| 700    | 5500             | 2 42             | 5,890 3 06  | 4,870 2 70   | 3,690 2 20  |  |   |  |   |
| 732    | 5750             | 2 51             | 6,240 3 4   | 5,370 3 05   | 4,290 2 70  |  |   |  |   |
| 765    | 6000             | 2 87             | 6,710 4 1   | 5,860 3 70   | 4,850 3 25  | 3,690 2 75   |   |  |   |
| 795    | 6250             | 3 12             | 7,140 4 8   | 6,340 4 30   | 5,400 3 85  | 4,340 3 40   |   |  |   |
| 823    | 6500             | 3 38             | 7,500 5 4   | 6,790 4 95   | 5,970 4 45  | 4,960 4 05   | 3,860 3 40  |  |   |
| 860    | 6750             | 3 63             | 7,870 6 1   | 7,240 5 6  | 6,450 5 2   | 5,550 4 7  | 4,500 4 10  |  |   |
| 891    | 7000             | 3 91             | 8,210 6 9   | 7,630 6 4  | 6,910 5 9   | 6,060 5 4  | 5,160 4 95  | 4,110 4 25   |   |
| 955    | 7500             | 4 50             | 8,940 8 8   | 8,480 8 1  | 7,890 7 5   | 7,110 7 2  | 6,300 6 5   | 5,380 5 9  | 4,450 5 2   |
| 1019   | 8000             | 5 11             |   | 9,250 10 0   | 8,740 9 5   | 8,090 9 1  | 7,300 8 5   | 6,590 7 8  | 5,720 7 2   |
| 1081   | 8500             | 5 76             |   | 9,980 12 5   | 9,520 11 5  | 9,000 11 0   | 8,350 10 5  | 7,630 10 0   | 6,850 9 5   |
| 1147   | 9000             | 6 46             |   | 10,700 14 5  | 10,300 14   | 9,850 13 5   | 9,250 13 0  | 8,670 12 5   | 7,950 11 5  |
| 1210   | 9500             | 7 20             |   | 11,400 17 5  | 11,000 17   | 10,700 16 5  | 10,200 15 5   | 9,650 15 0   | 9,000 14 5  |
| 1273   | 10000            | 7 98             |   | 12,100 21  | 11,800 20   | 11,400 19 5  | 11,000 19   | 10,500 18 5  | 9,980 17 5  |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 4½" Water 2.69 ozs. per sq. inch                    | Static Pressure 5" Water 2.89 ozs. per sq. inch                      | Static Pressure 5½" Water 3.18 ozs. per sq. inch                    | Static Pressure 6" Water 3.47 ozs. per sq. inch                      | Static Pressure 7" Water 4.05 ozs. per sq. inch                     | Static Pressure 8" Water 4.63 ozs. per sq. inch                      | Static Pressure 9" Water 5.2 ozs. per sq. inch                      |
| 955    | 7500             | 4 50             | 3,460 4 4   |  |   |  |   |  |   |
| 1020   | 8000             | 5 11             | 4,850 6 4   | 4,000 5 6  |   |  |   |  |   |
| 1080   | 8500             | 5 76             | 6,110 8 3   | 5,250 7 7  | 4,420 6 9   |  |   |  |   |
| 1150   | 9000             | 6 46             | 7,270 11  | 6,480 10 5   | 5,700 9 4   | 4,930 8 5  |   |  |   |
| 1210   | 9500             | 7 20             | 8,400 14  | 7,690 13 0   | 6,980 12 0  | 6,220 11 0   | 4,770 9 4   |  |   |
| 1285   | 10000            | 7 98             | 9,440 17  | 8,850 16 0   | 8,220 15 0  | 7,500 14 5   | 6,040 12 5  | 4,640 10 5   |   |
| 1340   | 10500            | 8 78             | 10,400 20   | 9,880 19 5   | 9,350 19 0  | 8,680 17 5   | 7,330 16 0  | 5,960 14 0   |   |
| 1402   | 11000            | 9 71             | 11,400 24   | 10,900 23  | 10,300 22 5   | 9,730 21 5   | 8,570 19 5  | 7,300 17 5   | 6,020 15 5  |
| 1465   | 11500            | 10 6             | 12,200 28   | 11,800 27  | 11,300 26   | 10,700 25  | 9,730 23 5  | 8,580 22   | 7,430 20  |
| 1528   | 12000            | 11 5             | 13,100 32   | 12,700 31  | 12,200 30   | 11,700 29  | 10,800 28   | 9,730 26   | 8,680 24  |
| 1590   | 12500            | 12 5             | 13,900 37   | 13,500 36  | 13,100 35   | 12,600 34  | 11,800 33   | 10,800 31  | 9,780 29  |
| 1655   | 13000            | 13 5             | 14,700 41   | 14,300 40  | 13,900 40   | 13,600 39  | 12,700 38   | 11,800 36  | 10,900 34   |
| 1720   | 13500            | 14 5             |   |  |   | 14,500 45  | 13,700 43   | 12,800 42  | 11,900 39   |
| 1780   | 14000            | 15 7             |   |  |   |  | 14,600 49   | 13,800 48  | 13,000 46   |
| 1845   | 14500            | 16 8             |   |  |   |  | 15,500 56   | 14,800 54  | 14,000 52   |
| 1910   | 15000            | 18               |   |  |   |  | 16,400 62   | 15,800 60  | 15,000 58   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 10" Water 5.78 ozs. per sq. inch                    | Static Pressure 11" Water 6.36 ozs. per sq. inch                     | Static Pressure 12" Water 6.93 ozs. per sq. inch                    | Static Pressure 13" Water 7.52 ozs. per sq. inch                     | Static Pressure 14" Water 8.1 ozs. per sq. inch                     | Static Pressure 15" Water 8.68 ozs. per sq. inch                     | Static Pressure 16" Water 9.25 ozs. per sq. inch                    |
| 1465   | 11500            | 10 6             | 6,020 17 5  |  |   |  |   |  |   |
| 1528   | 12000            | 11 5             | 7,450 22  | 6,020 19 5   |   |  |   |  |   |
| 1590   | 12500            | 12 5             | 8,750 26  | 7,520 24   | 6,350 22  |  |   |  |   |
| 1655   | 13000            | 13 5             | 9,910 31  | 8,820 29   | 7,700 27  | 6,580 24 5   |   |  |   |
| 1720   | 13500            | 14 5             | 11,000 38   | 10,000 35  | 8,960 33  | 8,050 30   | 6,880 27  |  |   |
| 1780   | 14000            | 15 7             | 12,100 44   | 11,200 41  | 10,200 39   | 9,340 37   | 8,280 34  | 7,220 31   |   |
| 1845   | 14500            | 16 8             | 13,200 50   | 12,300 48  | 11,400 46   | 10,500 43  | 9,550 41  | 8,600 38   | 7,520 35  |
| 1910   | 15000            | 18               | 14,300 58   | 13,400 54  | 12,600 52   | 11,700 50  | 10,700 47   | 9,880 45   | 8,900 42  |

# Single Inlet 55" Steel Plate Planing Mill Exhauster—Design 1 Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M. Static Pressure 1" Water .578 ozs. per sq. inch | H. P. | Volume C.F.M. Static Pressure 1½" Water .878 ozs. per sq. inch | H. P. | Volume C.F.M. Static Pressure 2" Water 1.16 ozs. per sq. inch | H. P. | Volume C.F.M. Static Pressure 2½" Water 1.48 ozs. per sq. inch | H. P. | Volume C.F.M. Static Pressure 3" Water 1.73 ozs. per sq. inch | H. P. | Volume C.F.M. Static Pressure 3½" Water 2.01 ozs. per sq. inch | H. P. | Volume C.F.M. Static Pressure 4" Water 2.31 ozs. per sq. inch | H. P. |
|--------|------------------|------------------|---|-------|--|-------|---|-------|--|-------|---|-------|--|-------|---|-------|
| 416    | 3600             | 1 03             | 2,180   | 0 62  |  |       |   |       |  |       |   |       |  |       |   |       |
| 440    | 3800             | 1 15             | 2,830   | 0 83  |  |       |   |       |  |       |   |       |  |       |   |       |
| 463    | 4000             | 1 28             | 3,460   | 1 10  |  |       |   |       |  |       |   |       |  |       |   |       |
| 486    | 4200             | 1 41             | 4,010   | 1 35  |  |       |   |       |  |       |   |       |  |       |   |       |
| 510    | 4400             | 1 54             | 4,550   | 1 60  | 2,630  | 1 10  |   |       |  |       |   |       |  |       |   |       |
| 532    | 4600             | 1 69             | 5,100   | 1 90  | 3,300  | 1 45  |   |       |  |       |   |       |  |       |   |       |
| 555    | 4800             | 1 84             | 5,550   | 2 30  | 3,940  | 1 80  |   |       |  |       |   |       |  |       |   |       |
| 579    | 5000             | 2 00             | 6,040   | 2 65  | 4,530  | 2 20  |   |       |  |       |   |       |  |       |   |       |
| 607    | 5250             | 2 20             | 6,560   | 3 10  | 5,240  | 2 70  | 3,620   | 2 10  |  |       |   |       |  |       |   |       |
| 636    | 5500             | 2 42             | 7,100   | 3 65  | 5,890  | 3 25  | 4,420   | 2 70  |  |       |   |       |  |       |   |       |
| 665    | 5750             | 2 54             | 7,520   | 4 10  | 6,490  | 3 7   | 5,170   | 3 25  |  |       |   |       |  |       |   |       |
| 695    | 6000             | 2 87             | 8,100   | 4 95  | 7,090  | 4 5   | 5,850   | 3 95  | 4,450  | 3 3   |   |       |  |       |   |       |
| 723    | 6250             | 3 12             | 8,500   | 5 8   | 7,650  | 5 2   | 6,000   | 4 65  | 5,230  | 4 1   |   |       |  |       |   |       |
| 753    | 6500             | 3 38             | 9,050   | 6 5   | 8,190  | 6 0   | 7,210   | 5 4   | 5,990  | 4 9   | 4,600   | 4 10  |  |       |   |       |
| 781    | 6750             | 3 63             | 9,500   | 7 4   | 8,740  | 6 8   | 7,800   | 6 3   | 6,700  | 5 7   | 5,430   | 4 95  |  |       |   |       |
| 810    | 7000             | 3 91             | 9,910   | 8 3   | 9,210  | 7 7   | 8,350   | 7 2   | 7,320  | 6 5   | 6,240   | 6 0   | 4,970  | 5 1   |   |       |
| 869    | 7500             | 4 50             | 10,800  | 10 5  | 10,200   | 9 8   | 9,520   | 9 1   | 8,580  | 8 7   | 7,610   | 7 9   | 6,500  | 7 2   | 5,380   | 6 3   |
| 925    | 8000             | 5 11             |   |       | 11,200   | 12 0  | 10,500  | 11 5  | 9,750  | 11 0  | 8,900   | 10 0  | 7,950  | 9 4   | 6,900   | 8 7   |
| 984    | 8500             | 5 76             |   |       | 12,100   | 15 0  | 11,500  | 14 0  | 10,900   | 13 5  | 10,100  | 12 5  | 9,210  | 12    | 8,200   | 11 5  |
| 1040   | 9000             | 6 46             |   |       | 12,900   | 17 5  | 12,400  | 17 0  | 11,900   | 16 0  | 11,200  | 15 5  | 10,500   | 15    | 9,600   | 14 0  |
| 1100   | 9500             | 7 20             |   |       | 13,800   | 21    | 13,300  | 20 5  | 12,900   | 19 5  | 12,300  | 19    | 11,700   | 18    | 10,900  | 17 5  |
| 1158   | 10000            | 7 98             |   |       | 14,600   | 25    | 14,300  | 24 5  | 13,800   | 23 5  | 13,300  | 23    | 12,700   | 22    | 12,000  | 21    |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 4½" Water 2.6 ozs. per sq. inch               |       | Static Pressure 5" Water 2.89 ozs. per sq. inch                |       | Static Pressure 5½" Water 3.18 ozs. per sq. inch              |       | Static Pressure 6" Water 3.47 ozs. per sq. inch                |       | Static Pressure 7" Water 4.05 ozs. per sq. inch               |       | Static Pressure 8" Water 4.63 ozs. per sq. inch                |       | Static Pressure 9" Water 5.2 ozs. per sq. inch                |       |
| 867    | 7500             | 4 50             | 4,170   | 5 3   |  |       |   |       |  |       |   |       |  |       |   |       |
| 925    | 8000             | 5 11             | 5,860   | 7 7   | 4,820  | 6 8   |   |       |  |       |   |       |  |       |   |       |
| 983    | 8500             | 5 76             | 7,370   | 10 0  | 6,330  | 9 3   | 5,330   | 8 3   |  |       |   |       |  |       |   |       |
| 1040   | 9000             | 6 46             | 8,770   | 13 0  | 7,810  | 12 5  | 6,880   | 11 5  | 5,950  | 10 5  |   |       |  |       |   |       |
| 1100   | 9500             | 7 20             | 10,100  | 16 5  | 9,290  | 16 0  | 8,400   | 14 5  | 7,500  | 13 5  | 5,750   | 11 5  |  |       |   |       |
| 1158   | 10000            | 7 98             | 11,400  | 20 0  | 10,700   | 19 5  | 9,900   | 18 5  | 9,010  | 17 5  | 7,280   | 15 0  | 5,590  | 12 5  |   |       |
| 1215   | 10500            | 8 78             | 12,600  | 24 5  | 11,900   | 23 5  | 11,200  | 22 5  | 10,500   | 21 5  | 8,840   | 19 5  | 7,190  | 17 0  |   |       |
| 1274   | 11000            | 9 71             | 13,700  | 29    | 13,100   | 28    | 12,500  | 27    | 11,700   | 26    | 10,300  | 24    | 8,810  | 21 5  | 7,260   | 18 5  |
| 1332   | 11500            | 10 6             | 14,700  | 33    | 14,200   | 33    | 13,600  | 32    | 12,900   | 31    | 11,700  | 29    | 10,400   | 26    | 8,950   | 24    |
| 1390   | 12000            | 11 5             | 15,800  | 38    | 15,300   | 38    | 14,700  | 37    | 14,100   | 35    | 13,000  | 34    | 11,700   | 32    | 10,500  | 29    |
| 1447   | 12500            | 12 5             | 16,800  | 44    | 16,300   | 43    | 15,800  | 42    | 15,200   | 41    | 14,200  | 39    | 13,000   | 37    | 11,800  | 35    |
| 1505   | 13000            | 13 5             | 17,800  | 50    | 17,300   | 49    | 16,800  | 48    | 16,400   | 47    | 15,300  | 45    | 14,300   | 43    | 13,100  | 41    |
| 1560   | 13500            | 14 5             |   |       |  |       |   |       | 17,500   | 54    | 16,500  | 52    | 15,500   | 50    | 14,400  | 48    |
| 1620   | 14000            | 15 7             |   |       |  |       |   |       |  |       | 17,600  | 60    | 16,700   | 58    | 15,700  | 56    |
| 1680   | 14500            | 16 8             |   |       |  |       |   |       |  |       | 18,700  | 68    | 17,800   | 66    | 16,900  | 62    |
| 1737   | 15000            | 18               |   |       |  |       |   |       |  |       | 19,800  | 74    | 19,000   | 74    | 18,100  | 70    |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 10" Water 5.78 ozs. per sq. inch              |       | Static Pressure 11" Water 6.36 ozs. per sq. inch               |       | Static Pressure 12" Water 6.93 ozs. per sq. inch              |       | Static Pressure 13" Water 7.51 ozs. per sq. inch               |       | Static Pressure 14" Water 8.09 ozs. per sq. inch              |       | Static Pressure 15" Water 8.67 ozs. per sq. inch               |       | Static Pressure 16" Water 9.25 ozs. per sq. inch              |       |
| 1332   | 11500            | 10 6             | 7,260   | 21    |  |       |   |       |  |       |   |       |  |       |   |       |
| 1390   | 12000            | 11 5             | 8,980   | 26    | 7,260  | 23 5  |   |       |  |       |   |       |  |       |   |       |
| 1447   | 12500            | 12 5             | 10,600  | 32    | 9,080  | 29    | 7,660   | 26    |  |       |   |       |  |       |   |       |
| 1505   | 13000            | 13 5             | 11,900  | 38    | 10,600   | 35    | 9,300   | 33    | 7,950  | 30    |   |       |  |       |   |       |
| 1560   | 13500            | 14 5             | 13,300  | 45    | 12,100   | 42    | 10,800  | 40    | 9,700  | 36    | 8,300   | 33    |  |       |   |       |
| 1620   | 14000            | 15 7             | 14,600  | 52    | 13,400   | 50    | 12,300  | 47    | 11,200   | 44    | 9,980   | 41    | 8,710  | 37    |   |       |
| 1680   | 14500            | 16 8             | 15,900  | 60    | 14,800   | 58    | 13,700  | 56    | 12,700   | 52    | 11,500  | 49    | 10,400   | 45    | 9,070   | 42    |
| 1737   | 15000            | 18               | 17,300  | 68    | 16,200   | 66    | 15,200  | 64    | 14,100   | 60    | 13,000  | 58    | 11,900   | 54    | 10,700  | 50    |

# Single Inlet 60" Steel Plate Planing Mill Exhauster — Design 1 Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances.

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M. H. P. Static Pressure 1" Water .578 oza. per sq. inch | Volume C.F.M. H. P. Static Pressure 1½" Water .878 oza. per sq. inch | Volume C.F.M. H. P. Static Pressure 2" Water 1.16 oza. per sq. inch | Volume C.F.M. H. P. Static Pressure 2½" Water 1.45 oza. per sq. inch | Volume C.F.M. H. P. Static Pressure 3" Water 1.73 oza. per sq. inch | Volume C.F.M. H. P. Static Pressure 3½" Water 2.02 oza. per sq. inch | Volume C.F.M. H. P. Static Pressure 4" Water 2.31 oza. per sq. inch |
|--------|------------------|------------------|---|--|---|--|---|--|---|
| 342    | 3600             | 1.03             | 2,770 0.79  |  |   |  |   |  |   |
| 403    | 3800             | 1.15             | 3,600 1.15  |  |   |  |   |  |   |
| 425    | 4000             | 1.28             | 4,400 1.40  |  |   |  |   |  |   |
| 445    | 4200             | 1.41             | 5,100 1.70  |  |   |  |   |  |   |
| 466    | 4400             | 1.54             | 5,780 2.05  | 3,340 1.40   |   |  |   |  |   |
| 488    | 4600             | 1.69             | 6,490 2.40  | 4,190 1.85   |   |  |   |  |   |
| 509    | 4800             | 1.84             | 7,060 2.90  | 5,000 2.30   |   |  |   |  |   |
| 530    | 5000             | 2.00             | 7,670 3.35  | 5,750 2.80   |   |  |   |  |   |
| 556    | 5250             | 2.20             | 8,330 3.95  | 6,650 3.40   | 4,600 2.65  |  |   |  |   |
| 584    | 5500             | 2.42             | 9,020 4.65  | 7,470 4.15   | 5,610 3.40  |  |   |  |   |
| 610    | 5750             | 2.54             | 9,560 5.2   | 8,240 4.7  | 6,370 4.15  |  |   |  |   |
| 636    | 6000             | 2.87             | 10,300 6.3  | 9,000 5.7  | 7,430 5.0   | 5,660 4.2  |   |  |   |
| 662    | 6250             | 3.12             | 10,900 7.4  | 9,720 6.6  | 8,380 5.9   | 6,670 5.2  |   |  |   |
| 690    | 6500             | 3.38             | 11,530 8.3  | 10,400 7.6   | 9,160 6.8   | 7,610 6.2  | 5,920 5.2   |  |   |
| 715    | 6750             | 3.63             | 12,100 9.4  | 11,100 8.6   | 9,900 8.0   | 8,510 7.2  | 6,900 6.3   |  |   |
| 742    | 7000             | 3.91             | 12,600 10.5   | 11,700 9.8   | 10,600 9.1  | 9,300 8.3  | 7,920 7.6   | 6,310 6.5  |   |
| 795    | 7500             | 4.50             | 13,700 13.5   | 13,000 12.5  | 12,100 11.5   | 10,300 11.0  | 9,670 10  | 8,270 9.1  | 6,830 8.0   |
| 848    | 8000             | 5.11             |   | 14,200 15.5  | 13,400 14.5   | 12,400 14.0  | 11,300 13   | 10,100 12.0  | 8,770 11.0  |
| 900    | 8500             | 5.76             |   | 15,300 19.0  | 14,600 18.0   | 13,800 17.0  | 12,800 16   | 11,700 15.5  | 10,500 14.5   |
| 954    | 9000             | 6.46             |   | 16,400 22.5  | 15,800 21.5   | 15,100 20.5  | 14,200 20   | 13,300 19  | 12,200 18   |
| 1010   | 9500             | 7.20             |   | 17,500 27  | 16,900 26   | 16,400 25  | 15,600 24   | 14,800 23  | 13,800 22   |
| 1060   | 10000            | 7.98             |   | 18,600 32  | 18,100 31   | 17,500 30  | 16,900 29   | 16,100 28  | 15,300 27   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 4½" Water 2.6 oza. per sq. inch                     | Static Pressure 5" Water 2.89 oza. per sq. inch                      | Static Pressure 5½" Water 3.18 oza. per sq. inch                    | Static Pressure 6" Water 3.47 oza. per sq. inch                      | Static Pressure 7" Water 4.05 oza. per sq. inch                     | Static Pressure 8" Water 4.63 oza. per sq. inch                      | Static Pressure 9" Water 5.2 oza. per sq. inch                      |
| 795    | 7500             | 4.50             | 5,300 6.7   |  |   |  |   |  |   |
| 847    | 8000             | 5.11             | 7,450 9.7   | 6,120 8.6  |   |  |   |  |   |
| 900    | 8500             | 5.76             | 9,360 13.0  | 8,040 12.0   | 6,770 10.5  |  |   |  |   |
| 953    | 9000             | 6.46             | 11,400 16.5   | 9,920 15.5   | 8,750 14.5  | 7,550 13   |   |  |   |
| 1005   | 9500             | 7.20             | 12,900 21   | 11,800 20  | 10,700 18.5   | 9,540 17   | 7,300 14.5  |  |   |
| 1060   | 10000            | 7.98             | 14,500 26   | 13,600 25  | 12,400 23.5   | 11,400 22  | 9,270 19.5  | 7,100 16.0   |   |
| 1112   | 10500            | 8.78             | 16,000 31   | 15,100 30  | 14,300 29   | 13,300 27  | 11,200 24.5   | 9,140 21.5   |   |
| 1165   | 11000            | 9.74             | 17,400 36   | 16,600 35  | 15,800 34   | 14,900 33  | 13,200 30   | 11,200 27  | 9,220 23.5  |
| 1220   | 11500            | 10.6             | 18,700 42   | 18,100 41  | 17,200 40   | 16,400 39  | 14,900 36   | 13,200 33  | 11,400 30   |
| 1273   | 12000            | 11.5             | 20,000 49   | 19,400 48  | 18,600 47   | 17,900 45  | 16,600 43   | 14,900 40  | 13,300 37   |
| 1325   | 12500            | 12.5             | 21,300 56   | 20,700 54  | 20,030 54   | 19,300 52  | 18,100 50   | 16,600 47  | 15,000 44   |
| 1380   | 13000            | 13.5             | 22,600 64   | 22,000 62  | 21,400 62   | 20,800 60  | 19,500 58   | 18,100 56  | 16,600 52   |
| 1430   | 13500            | 14.5             |   |  |   | 22,200 68  | 20,900 66   | 19,700 64  | 18,300 60   |
| 1480   | 14000            | 15.7             |   |  |   |  | 22,300 76   | 21,200 74  | 19,900 70   |
| 1537   | 14500            | 16.8             |   |  |   |  | 23,700 86   | 22,600 84  | 21,500 80   |
| 1590   | 15000            | 18               |   |  |   |  | 25,100 96   | 24,200 94  | 23,000 90   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 10" Water 5.78 oza. per sq. inch                    | Static Pressure 11" Water 6.36 oza. per sq. inch                     | Static Pressure 12" Water 6.93 oza. per sq. inch                    | Static Pressure 13" Water 7.52 oza. per sq. inch                     | Static Pressure 14" Water 8.1 oza. per sq. inch                     | Static Pressure 15" Water 8.68 oza. per sq. inch                     | Static Pressure 16" Water 9.25 oza. per sq. inch                    |
| 1220   | 11500            | 10.6             | 9,220 26  |  |   |  |   |  |   |
| 1273   | 12000            | 11.5             | 11,400 33   | 9,220 30   |   |  |   |  |   |
| 1325   | 12500            | 12.5             | 13,100 40   | 11,500 37  | 9,730 34  |  |   |  |   |
| 1380   | 13000            | 13.5             | 15,200 48   | 13,500 45  | 11,800 41   | 10,100 38  |   |  |   |
| 1430   | 13500            | 14.5             | 16,900 58   | 15,300 54  | 13,700 50   | 12,300 46  | 10,500 42   |  |   |
| 1480   | 14000            | 15.7             | 18,600 68   | 17,100 64  | 15,600 60   | 14,300 56  | 12,700 52   | 11,100 47  |   |
| 1537   | 14500            | 16.8             | 20,300 78   | 18,800 74  | 17,500 70   | 16,100 66  | 14,600 62   | 13,100 58  | 11,500 52   |
| 1590   | 15000            | 18               | 21,900 88   | 20,600 84  | 19,300 80   | 17,800 78  | 16,500 72   | 15,100 68  | 13,600 64   |

# Single Inlet 70" Steel Plate Planing Mill Exhauster—Design 1 Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.                                    | H. P. | Volume C.F.M.                                    | H. P. | Volume C.F.M.                                    | H. P. | Volume C.F.M.                                    | H. P. | Volume C.F.M.                                    | H. P. | Volume C.F.M.                                    | H. P. | Volume C.F.M.                                    | H. P. |
|--------|------------------|------------------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|
|        |                  |                  | Static Pressure 1" Water .578 ozs. per sq. inch  |       | Static Pressure 1½" Water .878 ozs. per sq. inch |       | Static Pressure 2" Water 1.16 ozs. per sq. inch  |       | Static Pressure 2½" Water 1.45 ozs. per sq. inch |       | Static Pressure 3" Water 1.73 ozs. per sq. inch  |       | Static Pressure 3½" Water 2.02 ozs. per sq. inch |       | Static Pressure 4" Water 2.31 ozs. per sq. inch  |       |
| 327    | 3600             | 1.03             | 3,560  | 1.00  |  |       |  |       |  |       |  |       |  |       |  |       |
| 346    | 3800             | 1.15             | 4,610  | 1.35  |  |       |  |       |  |       |  |       |  |       |  |       |
| 364    | 4000             | 1.28             | 5,650  | 1.75  |  |       |  |       |  |       |  |       |  |       |  |       |
| 382    | 4200             | 1.41             | 6,560  | 2.20  |  |       |  |       |  |       |  |       |  |       |  |       |
| 400    | 4400             | 1.54             | 7,420  | 2.65  | 4,290  | 1.85  |  |       |  |       |  |       |  |       |  |       |
| 418    | 4600             | 1.69             | 8,320  | 3.1   | 5,380  | 2.35  |  |       |  |       |  |       |  |       |  |       |
| 436    | 4800             | 1.84             | 9,070  | 3.7   | 6,430  | 2.95  |  |       |  |       |  |       |  |       |  |       |
| 455    | 5000             | 2.00             | 9,850  | 4.3   | 7,390  | 3.55  |  |       |  |       |  |       |  |       |  |       |
| 477    | 5250             | 2.20             | 10,700   | 5.1   | 8,550  | 4.4   | 5,890  | 3.1   |  |       |  |       |  |       |  |       |
| 500    | 5500             | 2.42             | 11,600   | 6.0   | 9,590  | 5.3   | 7,200  | 4.1   |  |       |  |       |  |       |  |       |
| 523    | 5750             | 2.54             | 12,300   | 6.7   | 10,600   | 6.0   | 8,140  | 5.3   |  |       |  |       |  |       |  |       |
| 545    | 6000             | 2.87             | 13,200   | 8.1   | 11,600   | 7.3   | 9,540  | 6.1   | 7,270  | 5.4   |  |       |  |       |  |       |
| 569    | 6250             | 3.12             | 14,000   | 9.4   | 12,500   | 8.5   | 10,800   | 7.6   | 8,540  | 6.6   |  |       |  |       |  |       |
| 590    | 6500             | 3.38             | 14,800   | 10.5  | 13,300   | 9.7   | 11,800   | 8.8   | 9,770  | 7.9   | 7,600  | 6.7   |  |       |  |       |
| 614    | 6750             | 3.63             | 15,500   | 12.0  | 14,200   | 11.0  | 12,700   | 10.5  | 10,900   | 9.3   | 8,860  | 8.1   |  |       |  |       |
| 636    | 7000             | 3.91             | 16,200   | 13.5  | 15,100   | 12.5  | 13,700   | 11.5  | 11,900   | 10.5  | 10,200   | 9.7   | 8,100  | 8.3   |  |       |
| 682    | 7500             | 4.50             | 17,600   | 17.5  | 16,600   | 16    | 15,500   | 15.0  | 14,000   | 14.0  | 12,400   | 13.0  | 10,600   | 11.5  | 8,760  | 10.5  |
| 726    | 8000             | 5.11             |  |       | 18,200   | 20    | 17,200   | 18.5  | 15,900   | 17.5  | 14,500   | 16.5  | 13,000   | 15.5  | 11,300   | 11.0  |
| 773    | 8500             | 5.76             |  |       | 19,700   | 24    | 18,700   | 23    | 17,700   | 22    | 16,500   | 20.5  | 15,100   | 19.5  | 13,500   | 18.5  |
| 819    | 9000             | 6.46             |  |       | 21,000   | 29    | 20,300   | 28    | 19,300   | 27    | 18,200   | 25    | 17,100   | 24.5  | 15,700   | 23    |
| 864    | 9500             | 7.20             |  |       | 22,400   | 35    | 21,700   | 33    | 21,000   | 32    | 20,000   | 31    | 19,000   | 30    | 17,700   | 28    |
| 910    | 10000            | 7.98             |  |       | 23,900   | 41    | 23,200   | 39    | 22,500   | 38    | 21,700   | 37    | 20,700   | 35    | 19,700   | 34    |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 4½" Water 2.6 ozs. per sq. inch  |       | Static Pressure 5" Water 2.89 ozs. per sq. inch  |       | Static Pressure 5½" Water 3.18 ozs. per sq. inch |       | Static Pressure 6" Water 3.47 ozs. per sq. inch  |       | Static Pressure 7" Water 4.05 ozs. per sq. inch  |       | Static Pressure 8" Water 4.63 ozs. per sq. inch  |       | Static Pressure 9" Water 5.2 ozs. per sq. inch   |       |
| 682    | 7500             | 4.50             | 6,800  | 8.7   |  |       |  |       |  |       |  |       |  |       |  |       |
| 727    | 8000             | 5.11             | 9,550  | 12.5  | 7,850  | 11    |  |       |  |       |  |       |  |       |  |       |
| 772    | 8500             | 5.76             | 12,000   | 16.5  | 10,300   | 15    | 8,690  | 13.5  |  |       |  |       |  |       |  |       |
| 818    | 9000             | 6.46             | 14,300   | 21.5  | 12,700   | 20    | 11,200   | 18.5  | 9,700  | 17    |  |       |  |       |  |       |
| 864    | 9500             | 7.20             | 16,500   | 27    | 15,100   | 26    | 13,700   | 24    | 12,200   | 22    | 9,390  | 18.5  |  |       |  |       |
| 910    | 10000            | 7.98             | 18,600   | 33    | 17,400   | 32    | 16,100   | 30    | 14,700   | 28    | 11,900   | 24.5  | 9,120  | 20.5  |  |       |
| 955    | 10500            | 8.78             | 20,500   | 40    | 19,400   | 38    | 18,400   | 37    | 17,000   | 35    | 14,400   | 32    | 11,700   | 27    |  |       |
| 1000   | 11000            | 9.71             | 22,300   | 47    | 21,100   | 46    | 20,300   | 44    | 19,100   | 42    | 16,900   | 39    | 11,400   | 35    | 11,800   | 30    |
| 1045   | 11500            | 10.6             | 24,000   | 54    | 23,200   | 54    | 22,100   | 52    | 21,100   | 50    | 19,200   | 47    | 16,900   | 43    | 14,000   | 39    |
| 1090   | 12000            | 11.5             | 25,700   | 62    | 24,900   | 62    | 24,000   | 60    | 22,900   | 58    | 21,300   | 56    | 19,100   | 52    | 17,100   | 47    |
| 1136   | 12500            | 12.5             | 27,300   | 72    | 26,600   | 70    | 25,700   | 68    | 24,800   | 66    | 23,200   | 64    | 21,200   | 60    | 19,200   | 56    |
| 1180   | 13000            | 13.5             | 29,000   | 82    | 28,200   | 80    | 27,400   | 78    | 26,700   | 76    | 25,000   | 74    | 23,200   | 70    | 21,400   | 66    |
| 1227   | 13500            | 14.5             |  |       |  |       |  |       | 28,500   | 88    | 26,900   | 84    | 25,200   | 82    | 23,400   | 78    |
| 1273   | 14000            | 15.7             |  |       |  |       |  |       |  |       | 28,700   | 98    | 27,200   | 94    | 25,500   | 90    |
| 1320   | 14500            | 16.8             |  |       |  |       |  |       |  |       | 30,400   | 110   | 29,100   | 105   | 27,600   | 100   |
| 1365   | 15000            | 18               |  |       |  |       |  |       |  |       | 32,200   | 120   | 31,000   | 120   | 29,600   | 115   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 10" Water 5.78 ozs. per sq. inch |       | Static Pressure 11" Water 6.36 ozs. per sq. inch |       | Static Pressure 12" Water 6.93 ozs. per sq. inch |       | Static Pressure 13" Water 7.51 ozs. per sq. inch |       | Static Pressure 14" Water 8.09 ozs. per sq. inch |       | Static Pressure 15" Water 8.67 ozs. per sq. inch |       | Static Pressure 16" Water 9.25 ozs. per sq. inch |       |
| 1045   | 11500            | 10.6             | 11,800   | 34    |  |       |  |       |  |       |  |       |  |       |  |       |
| 1090   | 12000            | 11.5             | 14,700   | 43    | 11,800   | 38    |  |       |  |       |  |       |  |       |  |       |
| 1136   | 12500            | 12.5             | 17,200   | 52    | 14,800   | 47    | 12,500   | 43    |  |       |  |       |  |       |  |       |
| 1180   | 13000            | 13.5             | 19,500   | 62    | 17,400   | 58    | 15,200   | 54    | 13,000   | 48    |  |       |  |       |  |       |
| 1227   | 13500            | 14.5             | 21,700   | 74    | 19,600   | 70    | 17,600   | 64    | 15,800   | 60    | 13,500   | 54    |  |       |  |       |
| 1273   | 14000            | 15.7             | 23,900   | 86    | 21,900   | 82    | 20,000   | 78    | 18,400   | 72    | 16,300   | 66    | 14,200   | 60    |  |       |
| 1320   | 14500            | 16.8             | 26,000   | 98    | 24,200   | 94    | 22,400   | 90    | 20,600   | 86    | 18,800   | 80    | 16,900   | 74    | 14,800   | 68    |
| 1365   | 15000            | 18               | 28,100   | 110   | 26,400   | 105   | 24,800   | 105   | 23,000   | 98    | 21,100   | 94    | 19,400   | 88    | 17,500   | 82    |



# Single Inlet 80" Steel Plate Planing Mill Exhauster—Design 1 Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed<br>F.P.M. | S.N.D.<br>in<br>inches | Volume<br>C.F.M.  | H. P.   | Volume<br>C.F.M.  | H. P.   | Volume<br>C.F.M.  | H. P.   | Volume<br>C.F.M.  | H. P.  | Volume<br>C.F.M.  | H. P.   | Volume<br>C.F.M. | H. P. | Volume<br>C.F.M. | H. P. |
|--------|---------------------|------------------------|---|---|---|---|---|---|---|--|---|---|------------------|-------|------------------|-------|
|        |                     |                        | Static Pressure<br>1" Water<br>.578 ozs. per<br>sq. inch  | Static Pressure<br>1½" Water<br>.878 ozs. per<br>sq. inch | Static Pressure<br>2" Water<br>1.16 ozs. per<br>sq. inch  | Static Pressure<br>2½" Water<br>1.45 ozs. per<br>sq. inch | Static Pressure<br>3" Water<br>1.73 ozs. per<br>sq. inch  | Static Pressure<br>3½" Water<br>2.02 ozs. per<br>sq. inch | Static Pressure<br>4" Water<br>2.31 ozs. per<br>sq. inch  |  |   |   |                  |       |                  |       |
| 286    | 3600                | 1.03                   | 4,810   | 1.40  |   |   |   |   |   |  |   |   |                  |       |                  |       |
| 302    | 3800                | 1.15                   | 6,250   | 1.85  |   |   |   |   |   |  |   |   |                  |       |                  |       |
| 318    | 4000                | 1.28                   | 7,650   | 2.40  |   |   |   |   |   |  |   |   |                  |       |                  |       |
| 334    | 4200                | 1.41                   | 8,870   | 2.95  |   |   |   |   |   |  |   |   |                  |       |                  |       |
| 350    | 4400                | 1.54                   | 10,100  | 3.55  | 5,800   | 2.50  |   |   |   |  |   |   |                  |       |                  |       |
| 366    | 4600                | 1.69                   | 11,300  | 4.2   | 7,280   | 3.20  |   |   |   |  |   |   |                  |       |                  |       |
| 382    | 4800                | 1.84                   | 12,300  | 5.0   | 8,700   | 4.00  |   |   |   |  |   |   |                  |       |                  |       |
| 398    | 5000                | 2.00                   | 13,300  | 5.8   | 10,000  | 4.85  |   |   |   |  |   |   |                  |       |                  |       |
| 417    | 5250                | 2.20                   | 14,500  | 6.8   | 11,600  | 5.9   | 7,980   | 4.65  |   |  |   |   |                  |       |                  |       |
| 437    | 5500                | 2.42                   | 15,700  | 8.1   | 13,000  | 7.2   | 9,750   | 5.9   |   |  |   |   |                  |       |                  |       |
| 457    | 5750                | 2.54                   | 16,600  | 9.0   | 14,300  | 8.2   | 11,400  | 7.2   |   |  |   |   |                  |       |                  |       |
| 477    | 6000                | 2.87                   | 17,900  | 11.0  | 15,700  | 9.9   | 12,900  | 8.7   | 9,850   | 7.3  |   |   |                  |       |                  |       |
| 497    | 6250                | 3.12                   | 19,000  | 13.0  | 16,900  | 11.5  | 14,600  | 10.5  | 11,600  | 9.0  |   |   |                  |       |                  |       |
| 516    | 6500                | 3.38                   | 20,000  | 14.5  | 18,000  | 13.0  | 15,900  | 12.0  | 13,200  | 10.5   | 10,300  | 9.1   |                  |       |                  |       |
| 536    | 6750                | 3.63                   | 21,000  | 16.5  | 19,300  | 15.0  | 17,200  | 14.0  | 14,800  | 12.5   | 12,000  | 11.0  |                  |       |                  |       |
| 556    | 7000                | 3.91                   | 22,000  | 18.5  | 20,400  | 17.0  | 18,500  | 16.0  | 16,200  | 14.5   | 13,800  | 13.0  | 11,000           | 11    |                  |       |
| 566    | 7500                | 4.50                   | 23,800  | 23  | 22,500  | 21.5  | 21,000  | 20.5  | 19,000  | 19   | 16,800  | 17.5  | 14,300           | 16    | 11,900           | 14    |
| 636    | 8000                | 5.11                   |   |   | 24,600  | 27  | 23,200  | 25  | 21,600  | 24   | 19,700  | 22.5  | 17,500           | 21    | 15,200           | 19    |
| 676    | 8500                | 5.76                   |   |   | 26,600  | 33  | 25,400  | 31  | 23,900  | 30   | 22,300  | 28  | 20,400           | 27    | 18,300           | 25    |
| 716    | 9000                | 6.46                   |   |   | 28,400  | 39  | 27,400  | 38  | 26,200  | 36   | 24,700  | 34  | 23,100           | 33    | 21,300           | 31    |
| 756    | 9500                | 7.20                   |   |   | 30,400  | 47  | 29,400  | 45  | 28,400  | 44   | 27,100  | 42  | 25,700           | 40    | 24,000           | 38    |
| 796    | 10000               | 7.98                   |   |   | 32,400  | 56  | 31,400  | 54  | 30,500  | 52   | 29,300  | 50  | 28,000           | 48    | 26,700           | 46    |
| R.P.M. | Tip Speed<br>F.P.M. | S.N.D.<br>in<br>inches | Static Pressure<br>4½" Water<br>2.6 ozs. per<br>sq. inch  | Static Pressure<br>5" Water<br>2.89 ozs. per<br>sq. inch  | Static Pressure<br>5½" Water<br>3.18 ozs. per<br>sq. inch | Static Pressure<br>6" Water<br>3.47 ozs. per<br>sq. inch  | Static Pressure<br>6½" Water<br>3.77 ozs. per<br>sq. inch | Static Pressure<br>7" Water<br>4.05 ozs. per<br>sq. inch  | Static Pressure<br>7½" Water<br>4.33 ozs. per<br>sq. inch | Static Pressure<br>8" Water<br>4.63 ozs. per<br>sq. inch | Static Pressure<br>8½" Water<br>4.92 ozs. per<br>sq. inch | Static Pressure<br>9" Water<br>5.2 ozs. per<br>sq. inch |                  |       |                  |       |
| 507    | 7500                | 4.50                   | 9,210   | 11.5  |   |   |   |   |   |  |   |   |                  |       |                  |       |
| 637    | 8000                | 5.11                   | 12,000  | 17  | 10,700  | 15.0  |   |   |   |  |   |   |                  |       |                  |       |
| 677    | 8500                | 5.76                   | 16,300  | 22  | 14,000  | 20.5  | 11,800  | 18.5  |   |  |   |   |                  |       |                  |       |
| 717    | 9000                | 6.46                   | 19,400  | 27  | 17,300  | 27  | 15,200  | 25  | 13,100  | 22.5   |   |   |                  |       |                  |       |
| 757    | 9500                | 7.20                   | 22,400  | 37  | 20,500  | 35  | 18,600  | 32  | 16,600  | 30   | 12,700  | 25  |                  |       |                  |       |
| 797    | 10000               | 7.98                   | 25,200  | 45  | 23,900  | 43  | 21,900  | 41  | 19,900  | 38   | 16,100  | 33  |                  |       |                  |       |
| 837    | 10500               | 8.78                   | 27,800  | 54  | 26,400  | 52  | 24,800  | 50  | 23,100  | 47   | 19,500  | 43  |                  |       |                  |       |
| 877    | 11000               | 9.71                   | 30,200  | 64  | 28,900  | 62  | 27,500  | 60  | 25,900  | 58   | 22,800  | 52  |                  |       |                  |       |
| 914    | 11500               | 10.6                   | 32,500  | 74  | 31,400  | 72  | 30,000  | 70  | 28,600  | 68   | 25,900  | 64  |                  |       |                  |       |
| 952    | 12000               | 11.5                   | 34,800  | 84  | 33,700  | 82  | 32,400  | 82  | 31,100  | 78   | 28,800  | 74  |                  |       |                  |       |
| 993    | 12500               | 12.5                   | 37,000  | 98  | 36,000  | 96  | 34,800  | 92  | 33,600  | 90   | 31,400  | 86  |                  |       |                  |       |
| 1030   | 13000               | 13.5                   | 39,200  | 110   | 38,200  | 110   | 37,200  | 105   | 36,100  | 105  | 33,900  | 100   |                  |       |                  |       |
| 1073   | 13500               | 14.5                   |   |   |   |   |   |   | 38,500  | 120  | 36,400  | 115   |                  |       |                  |       |
| 1112   | 14000               | 15.7                   |   |   |   |   |   |   |   |  | 38,800  | 130   |                  |       |                  |       |
| 1153   | 14500               | 16.8                   |   |   |   |   |   |   |   |  | 41,200  | 150   |                  |       |                  |       |
| 1193   | 15000               | 18                     |   |   |   |   |   |   |   |  | 43,600  | 165   |                  |       |                  |       |
| R.P.M. | Tip Speed<br>F.P.M. | S.N.D.<br>in<br>inches | Static Pressure<br>10" Water<br>5.78 ozs. per<br>sq. inch | Static Pressure<br>11" Water<br>6.36 ozs. per<br>sq. inch | Static Pressure<br>12" Water<br>6.93 ozs. per<br>sq. inch | Static Pressure<br>13" Water<br>7.51 ozs. per<br>sq. inch | Static Pressure<br>14" Water<br>8.09 ozs. per<br>sq. inch | Static Pressure<br>15" Water<br>8.67 ozs. per<br>sq. inch | Static Pressure<br>16" Water<br>9.25 ozs. per<br>sq. inch |  |   |   |                  |       |                  |       |
| 914    | 11500               | 10.6                   | 16,000  | 46  |   |   |   |   |   |  |   |   |                  |       |                  |       |
| 952    | 12000               | 11.5                   | 19,800  | 58  | 16,600  | 52  |   |   |   |  |   |   |                  |       |                  |       |
| 993    | 12500               | 12.5                   | 23,300  | 70  | 20,000  | 64  | 16,900  | 58  |   |  |   |   |                  |       |                  |       |
| 1030   | 13000               | 13.5                   | 26,400  | 84  | 23,500  | 78  | 20,500  | 72  | 17,500  | 66   |   |   |                  |       |                  |       |
| 1073   | 13500               | 14.5                   | 29,400  | 100   | 26,600  | 94  | 23,900  | 88  | 21,400  | 80   |   |   |                  |       |                  |       |
| 1112   | 14000               | 15.7                   | 32,300  | 115   | 29,700  | 110   | 27,100  | 105   | 24,800  | 98   |   |   |                  |       |                  |       |
| 1153   | 14500               | 16.8                   | 35,200  | 135   | 32,700  | 125   | 30,400  | 120   | 28,000  | 115  |   |   |                  |       |                  |       |
| 1193   | 15000               | 18                     | 38,100  | 150   | 35,800  | 145   | 33,500  | 140   | 31,100  | 135  |   |   |                  |       |                  |       |

# Single Inlet 90" Steel Plate Planing Mill Exhauster — Design 1 Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.                                    | H. P.  | Volume C.F.M.                                    | H. P.  | Volume C.F.M.                                   | H. P.  | Volume C.F.M.                                    | H. P. | Volume C.F.M. | H. P. | Volume C.F.M. | H. P. | Volume C.F.M. | H. P. |
|--------|------------------|------------------|--|--|--|--|---|--|--|-------|---------------|-------|---------------|-------|---------------|-------|
|        |                  |                  | Static Pressure 1" Water .578 ozs. per sq. inch  | Static Pressure 1½" Water .878 ozs. per sq. inch | Static Pressure 2" Water 1.16 ozs. per sq. inch  | Static Pressure 2½" Water 1.45 ozs. per sq. inch | Static Pressure 3" Water 1.73 ozs. per sq. inch | Static Pressure 3½" Water 2.02 ozs. per sq. inch | Static Pressure 4" Water 2.31 ozs. per sq. inch  |       |               |       |               |       |               |       |
| 255    | 3600             | 1.03             | 5,980  | 1.70   |  |  |   |  |  |       |               |       |               |       |               |       |
| 269    | 3800             | 1.15             | 7,760  | 2.30   |  |  |   |  |  |       |               |       |               |       |               |       |
| 284    | 4000             | 1.28             | 9,500  | 3.00   |  |  |   |  |  |       |               |       |               |       |               |       |
| 297    | 4200             | 1.41             | 11,000   | 3.65   |  |  |   |  |  |       |               |       |               |       |               |       |
| 311    | 4400             | 1.54             | 12,500   | 4.4  | 7,200  | 3.1  |   |  |  |       |               |       |               |       |               |       |
| 325    | 4600             | 1.69             | 14,000   | 5.2  | 9,000  | 4.0  |   |  |  |       |               |       |               |       |               |       |
| 339    | 4800             | 1.84             | 15,300   | 6.2  | 10,800   | 5.0  |   |  |  |       |               |       |               |       |               |       |
| 354    | 5000             | 2.00             | 16,600   | 7.2  | 12,400   | 6.0  |   |  |  |       |               |       |               |       |               |       |
| 372    | 5250             | 2.20             | 18,000   | 8.5  | 14,400   | 7.4  | 9,920   | 5.8  |  |       |               |       |               |       |               |       |
| 390    | 5500             | 2.42             | 19,500   | 10.0   | 16,100   | 8.9  | 12,100  | 7.4  |  |       |               |       |               |       |               |       |
| 407    | 5750             | 2.54             | 20,700   | 11.0   | 17,800   | 10.0   | 14,200  | 8.9  |  |       |               |       |               |       |               |       |
| 425    | 6000             | 2.87             | 22,300   | 13.5   | 19,500   | 12.0   | 16,000  | 11.0   | 12,200   | 9.1   |               |       |               |       |               |       |
| 442    | 6250             | 3.12             | 23,600   | 16   | 21,000   | 14.5   | 18,100  | 13.0   | 14,400   | 11.0  |               |       |               |       |               |       |
| 460    | 6500             | 3.38             | 24,800   | 18   | 22,400   | 16.5   | 19,800  | 14.5   | 16,400   | 13.5  | 12,800        | 11.5  |               |       |               |       |
| 477    | 6750             | 3.63             | 26,100   | 20   | 23,900   | 18.5   | 21,400  | 17.5   | 18,400   | 15.5  | 14,900        | 13.5  |               |       |               |       |
| 495    | 7000             | 3.91             | 27,300   | 23   | 25,400   | 21   | 23,000  | 19.5   | 20,100   | 18.0  | 17,100        | 16.5  | 13,600        | 14.0  |               |       |
| 532    | 7500             | 4.50             | 29,600   | 29   | 28,000   | 27   | 26,000  | 25   | 23,600   | 23.5  | 20,000        | 22    | 17,800        | 19.5  | 14,700        | 17.5  |
| 566    | 8000             | 5.11             |  |  | 30,600   | 33   | 28,800  | 31   | 26,800   | 30    | 24,400        | 28    | 21,800        | 26    | 18,900        | 24    |
| 601    | 8500             | 5.76             |  |  | 33,100   | 41   | 31,500  | 39   | 29,700   | 37    | 27,700        | 35    | 25,400        | 33    | 22,800        | 31    |
| 636    | 9000             | 6.46             |  |  | 35,300   | 49   | 34,100  | 47   | 32,500   | 45    | 30,700        | 43    | 28,700        | 41    | 26,400        | 39    |
| 672    | 9500             | 7.20             |  |  | 37,800   | 58   | 36,600  | 56   | 35,300   | 54    | 33,600        | 52    | 31,900        | 50    | 29,800        | 47    |
| 708    | 10000            | 7.98             |  |  | 40,100   | 68   | 39,000  | 66   | 37,800   | 64    | 36,500        | 62    | 34,800        | 60    | 33,100        | 58    |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 4½" Water 2.6 ozs. per sq. inch  | Static Pressure 5" Water 2.89 ozs. per sq. inch  | Static Pressure 5½" Water 3.18 ozs. per sq. inch | Static Pressure 6" Water 3.47 ozs. per sq. inch  | Static Pressure 7" Water 4.05 ozs. per sq. inch | Static Pressure 8" Water 4.63 ozs. per sq. inch  | Static Pressure 9" Water 5.2 ozs. per sq. inch   |       |               |       |               |       |               |       |
| 530    | 7500             | 4.50             | 11,500   | 14.5   |  |  |   |  |  |       |               |       |               |       |               |       |
| 566    | 8000             | 5.11             | 16,100   | 21   | 13,200   | 18.5   |   |  |  |       |               |       |               |       |               |       |
| 602    | 8500             | 5.76             | 20,200   | 28   | 17,400   | 26   | 14,600  | 23   |  |       |               |       |               |       |               |       |
| 637    | 9000             | 6.46             | 24,100   | 36   | 21,500   | 34   | 18,900  | 31   | 16,400   | 28    |               |       |               |       |               |       |
| 672    | 9500             | 7.20             | 27,800   | 46   | 25,500   | 43   | 23,100  | 40   | 20,600   | 37    | 15,800        | 31    |               |       |               |       |
| 708    | 10000            | 7.98             | 31,300   | 56   | 29,400   | 54   | 27,200  | 50   | 24,800   | 48    | 20,000        | 42    | 15,400        | 35    |               |       |
| 744    | 10500            | 8.78             | 34,600   | 66   | 32,800   | 64   | 30,900  | 62   | 28,800   | 58    | 24,300        | 54    | 19,800        | 46    |               |       |
| 780    | 11000            | 9.71             | 37,600   | 78   | 36,000   | 76   | 34,200  | 74   | 32,300   | 72    | 28,400        | 66    | 24,200        | 58    | 19,000        | 50    |
| 812    | 11500            | 10.6             | 40,500   | 92   | 39,100   | 90   | 37,300  | 88   | 35,600   | 84    | 32,300        | 78    | 28,400        | 72    | 24,000        | 66    |
| 850    | 12000            | 11.5             | 43,300   | 105  | 42,000   | 105  | 40,300  | 100  | 38,600   | 98    | 35,800        | 92    | 32,200        | 86    | 28,800        | 80    |
| 884    | 12500            | 12.5             | 46,000   | 120  | 44,800   | 120  | 43,300  | 115  | 41,900   | 115   | 39,000        | 110   | 35,800        | 105   | 32,400        | 96    |
| 920    | 13000            | 13.5             | 48,800   | 140  | 47,600   | 135  | 46,300  | 130  | 45,000   | 130   | 42,200        | 125   | 39,200        | 120   | 36,000        | 110   |
| 955    | 13500            | 14.5             |  |  |  |  |   |  | 48,000   | 150   | 45,300        | 145   | 42,500        | 140   | 39,500        | 130   |
| 990    | 14000            | 15.7             |  |  |  |  |   |  |  |       | 48,300        | 165   | 45,900        | 160   | 43,000        | 150   |
| 1025   | 14500            | 16.8             |  |  |  |  |   |  |  |       | 51,300        | 185   | 49,000        | 180   | 46,500        | 175   |
| 1060   | 15000            | 18               |  |  |  |  |   |  |  |       | 54,300        | 205   | 52,300        | 200   | 49,800        | 195   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 10" Water 5.75 ozs. per sq. inch | Static Pressure 11" Water 6.36 ozs. per sq. inch | Static Pressure 12" Water 6.93 ozs. per sq. inch | Static Pressure 13" Water 7.52 ozs. per sq. inch | Static Pressure 14" Water 8.1 ozs. per sq. inch | Static Pressure 15" Water 8.68 ozs. per sq. inch | Static Pressure 16" Water 9.25 ozs. per sq. inch |       |               |       |               |       |               |       |
| 812    | 11500            | 10.6             | 19,900   | 58   |  |  |   |  |  |       |               |       |               |       |               |       |
| 850    | 12000            | 11.5             | 24,700   | 72   | 19,900   | 64   |   |  |  |       |               |       |               |       |               |       |
| 884    | 12500            | 12.5             | 29,000   | 88   | 24,000   | 80   | 21,000  | 72   |  |       |               |       |               |       |               |       |
| 920    | 13000            | 13.5             | 32,800   | 105  | 29,200   | 96   | 25,500  | 90   | 21,800   | 82    |               |       |               |       |               |       |
| 955    | 13500            | 14.5             | 36,600   | 125  | 33,100   | 115  | 29,700  | 110  | 26,700   | 100   | 22,800        | 90    |               |       |               |       |
| 990    | 14000            | 15.7             | 40,200   | 145  | 37,000   | 135  | 33,700  | 130  | 30,900   | 120   | 27,400        | 110   | 23,900        | 100   |               |       |
| 1025   | 14500            | 16.8             | 43,800   | 165  | 40,700   | 160  | 37,800  | 150  | 34,800   | 145   | 31,600        | 135   | 28,500        | 125   | 24,900        | 115   |
| 1060   | 15000            | 18               | 47,400   | 190  | 44,500   | 180  | 41,700  | 175  | 38,600   | 165   | 35,600        | 155   | 32,800        | 150   | 29,500        | 140   |

# Single Inlet 100" Steel Plate Planing Mill Exhauster—Design 1 Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

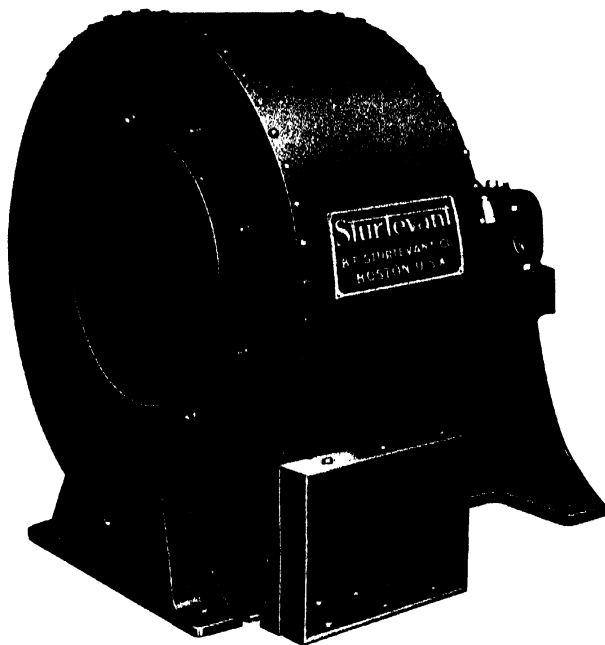
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M. H. P.<br>Static Pressure 1" Water .578 ozs. per sq. inch | Volume C.F.M. H. P.<br>Static Pressure 1½" Water .878 ozs. per sq. inch | Volume C.F.M. H. P.<br>Static Pressure 2" Water 1.16 ozs. per sq. inch | Volume C.F.M. H. P.<br>Static Pressure 2½" Water 1.45 ozs. per sq. inch | Volume C.F.M. H. P.<br>Static Pressure 3" Water 1.73 ozs. per sq. inch | Volume C.F.M. H. P.<br>Static Pressure 3½" Water 2.02 ozs. per sq. inch | Volume C.F.M. H. P.<br>Static Pressure 4" Water 2.31 ozs. per sq. inch |
|--------|------------------|------------------|--|---|--|---|--|---|--|
| 229    | 3600             | 1 03             | 7,250 2 10   |   |  |   |  |   |  |
| 242    | 3800             | 1 15             | 9,420 2 80   |   |  |   |  |   |  |
| 254    | 4000             | 1 28             | 11,500 3 60  |   |  |   |  |   |  |
| 268    | 4200             | 1 41             | 13,400 4 45  |   |  |   |  |   |  |
| 280    | 4400             | 1 54             | 15,100 5 4   | 8,710 3 75  |  |   |  |   |  |
| 293    | 4600             | 1 69             | 17,000 6 3   | 11,000 4 85   |  |   |  |   |  |
| 306    | 4800             | 1 84             | 18,500 7 5   | 13,100 6.0  |  |   |  |   |  |
| 318    | 5000             | 2 00             | 20,100 8 8   | 15,100 7 3  |  |   |  |   |  |
| 334    | 5250             | 2 20             | 21,800 10 5  | 17,400 9 0  | 12,000 7 0   |   |  |   |  |
| 350    | 5500             | 2 42             | 23,600 12 0  | 19,600 11 0   | 14,700 9 0   |   |  |   |  |
| 366    | 5750             | 2 54             | 25,000 13 5  | 21,600 12 5   | 17,200 11 0  |   |  |   |  |
| 382    | 6000             | 2 87             | 27,000 16 5  | 23,600 15 0   | 19,500 13 0  | 14,800 11 0   |  |   |  |
| 393    | 6250             | 3 12             | 28,600 19 5  | 25,500 17.5   | 21,900 15 5  | 17,400 13 5   |  |   |  |
| 414    | 6500             | 3 38             | 30,100 22 0  | 27,200 20 5   | 24,000 18  | 19,900 16   | 15,500 13 5  |   |  |
| 430    | 6750             | 3 63             | 31,600 24 5  | 29,000 22 5   | 25,900 21  | 22,300 19   | 18,100 16 5  |   |  |
| 446    | 7000             | 3 91             | 33,100 28  | 30,800 26   | 27,900 24  | 24,400 22   | 20,800 20  | 16,500 17   |  |
| 477    | 7500             | 4 50             | 35,900 35  | 34,000 33   | 31,600 31  | 28,700 29   | 25,300 26  | 21,600 24   | 17,900 21  |
| 510    | 8000             | 5 11             |  | 37,200 41   | 35,000 38  | 32,500 36   | 29,600 34  | 26,400 32   | 23,000 29  |
| 541    | 8500             | 5 76             |  | 40,100 49   | 38,200 47  | 36,000 45   | 33,600 42  | 30,800 40   | 27,600 37  |
| 574    | 9000             | 6 46             |  | 42,900 60   | 41,400 56  | 39,400 54   | 37,200 52  | 34,800 50   | 32,000 47  |
| 605    | 9500             | 7 20             |  | 45,800 70   | 44,300 68  | 42,900 66   | 40,800 62  | 38,700 60   | 36,200 58  |
| 637    | 10000            | 7 98             |  | 48,800 84   | 47,300 80  | 45,900 78   | 44,200 77  | 42,200 72   | 40,100 70  |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 4½" Water 2.61 ozs. per sq. inch                       | Static Pressure 5" Water 2.89 ozs. per sq. inch                         | Static Pressure 5½" Water 3.18 ozs. per sq. inch                       | Static Pressure 6" Water 3.47 ozs. per sq. inch                         | Static Pressure 7" Water 4.05 ozs. per sq. inch                        | Static Pressure 8" Water 4.63 ozs. per sq. inch                         | Static Pressure 9" Water 5.2 ozs. per sq. inch                         |
| 478    | 7500             | 4 50             | 13,900 17 5  |   |  |   |  |   |  |
| 509    | 8000             | 5 11             | 19,500 26  | 16,100 22 5   |  |   |  |   |  |
| 542    | 8500             | 5 76             | 21,600 31  | 21,100 31   | 17,800 28  |   |  |   |  |
| 573    | 9000             | 6 46             | 29,200 41  | 26,000 41   | 23,000 38  | 19,800 34   |  |   |  |
| 605    | 9500             | 7 20             | 33,800 56  | 31,000 52   | 28,100 49  | 25,000 45   | 19,200 38  |   |  |
| 637    | 10000            | 7 98             | 38,000 68  | 35,600 66   | 33,000 62  | 30,000 58   | 24,300 50  | 18,700 42   |  |
| 669    | 10500            | 8 78             | 42,000 80  | 39,800 78   | 37,500 76  | 34,800 72   | 29,500 64  | 24,000 56   |  |
| 702    | 11000            | 9 71             | 45,700 96  | 43,700 94   | 41,500 90  | 39,200 86   | 34,500 80  | 29,100 72   | 24,200 62  |
| 733    | 11500            | 10 6             | 49,100 110   | 47,500 110  | 45,300 105   | 43,200 100  | 39,200 96  | 34,500 88   | 29,800 80  |
| 765    | 12000            | 11 5             | 52,500 130   | 51,000 125  | 49,000 120   | 46,900 120  | 43,500 115   | 39,100 105  | 34,900 98  |
| 797    | 12500            | 12 5             | 55,800 145   | 54,500 145  | 52,500 140   | 50,800 135  | 47,400 130   | 43,500 125  | 39,300 115   |
| 828    | 13000            | 13 5             | 59,200 165   | 57,700 165  | 56,100 160   | 54,500 155  | 51,200 150   | 47,500 145  | 43,600 135   |
| 860    | 13500            | 14 5             |  |   |  | 58,200 180  | 55,000 175   | 51,600 165  | 48,000 160   |
| 892    | 14000            | 15 7             |  |   |  |   | 58,600 200   | 55,600 190  | 52,200 185   |
| 924    | 14500            | 16 8             |  |   |  |   | 62,300 225   | 59,500 220  | 56,300 210   |
| 955    | 15000            | 18               |  |   |  |   | 65,900 250   | 63,400 245  | 60,500 235   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 10" Water 5.78 ozs. per sq. inch                       | Static Pressure 11" Water 6.36 ozs. per sq. inch                        | Static Pressure 12" Water 6.93 ozs. per sq. inch                       | Static Pressure 13" Water 7.52 ozs. per sq. inch                        | Static Pressure 14" Water 8.1 ozs. per sq. inch                        | Static Pressure 15" Water 8.68 ozs. per sq. inch                        | Static Pressure 16" Water 9.25 ozs. per sq. inch                       |
| 733    | 11500            | 10 6             | 24,200 70  |   |  |   |  |   |  |
| 765    | 12000            | 11 5             | 29,900 88  | 24,200 78   |  |   |  |   |  |
| 797    | 12500            | 12 5             | 35,200 105   | 30,200 96   | 25,500 88  |   |  |   |  |
| 828    | 13000            | 13 5             | 39,800 125   | 35,500 115  | 31,000 110   | 26,500 98   |  |   |  |
| 860    | 13500            | 14 5             | 44,400 150   | 40,200 140  | 36,000 130   | 32,300 120  | 27,700 110   |   |  |
| 892    | 14000            | 15 7             | 48,800 175   | 44,800 165  | 40,900 160   | 37,500 145  | 33,300 135   | 29,000 125  |  |
| 924    | 14500            | 16 8             | 53,200 200   | 49,400 190  | 45,800 185   | 42,200 175  | 38,400 165   | 34,500 150  | 30,200 140   |
| 955    | 15000            | 18               | 57,500 230   | 54,000 220  | 50,600 210   | 46,900 200  | 43,200 190   | 39,700 180  | 35,700 170   |

**SLOW SPEED LOW POWER  
PLANING MILL EXHAUSTER  
Design 6**

**Dimensions, Capacities, Horse Powers**



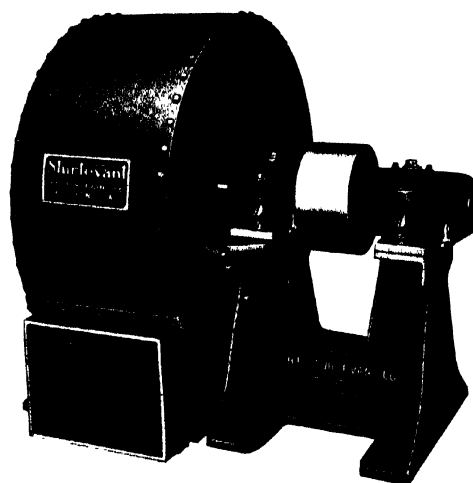
## Slow Speed Planing Mill Exhauster — Design 6



Design 6 Single Slow Speed Low Power  
Planing Mill Exhauster, Right Hand Bottom  
Horizontal Discharge



Design 6 Slow Speed Low Power  
Planing Mill Exhauster  
Wheel



Design 6 Single Slow Speed Low Power  
Planing Mill Exhauster, Right Hand  
Bottom Horizontal Discharge

## SLOW SPEED LOW POWER PLANING MILL EXHAUSTER—DESIGN 6

### SPECIFICATIONS

Contractor shall furnish one Sturtevant No. . . . . Design 6, Slow Speed Low Power Exhauster. It shall have an inlet . . . . . inches in diameter, an outlet . . . . . inches x . . . . . inches. It shall be convertible and reversible as to hand and discharge. It shall contain a blast wheel . . . . . inches in diameter, comprising eighteen floats each carried on a steel T-arm cast into a central hub, these blades to be tilted forwardly in the direction of rotation at their outer edges. The blades shall be connected only at their rear or edges most remote from the fan inlet, with an annular back plate. The floats shall be made of No. . . . . gauge.

**Housing.** The housing shall be of the convertible and reversible type made up of steel side sheets secured to cast-iron inlet and cone side plates by tap bolts threaded into an annular ring riveted to the steel side sheet.

The roundabout or scroll sheet shall be secured to the scroll angles by bolts so as to be easily replaced if necessary. The scroll angles shall be riveted to the outer side of the side sheets. Rivets and bolts shall be spaced either 5 inches or  $2\frac{1}{2}$  inches on centers as may be most desirable for the work in question.

**Hanger.** The hanger shall be of grey iron fastened to the cone side plate by tap bolts and of the design shown in the illustration herewith. It shall be machined at the top to receive the bearings.

**Bearings.** The bearings shall consist of a cast-iron housing which in itself forms an oil reservoir and mounted within which are split sleeves lined with the best grade of Sturtevant white metal. These sleeves shall be mounted in a spherical seat so as to be self-aligning in all directions. Oiling shall be by two oil rings dipping into the reservoir. Combination thrust and oil wiper collars shall be provided for both ends of each bearing. Bearing housings shall be recessed at either end and fitted with felt washers. Sight glasses shall be inserted in the bearing housings. The filler cap shall be so located as to prevent an excess of oil being carried in the reservoir. The bearing housing shall be machined where it bolts to the hanger and shall be secured thereto by two bolts of ample size.

## **SLOW SPEED LOW POWER PLANING MILL EXHAUSTER—DESIGN 6**

### **EXPLANATION OF SPECIFICATION REQUIREMENTS**

Design 6, Slow Speed Low Power Exhauster is the most efficient fan of its type on the market. It is designed for very large capacity and relatively low rotative speed. It is unique in that it occupies less space for a given volumetric capacity than any other fan generally used for the same class of work.

**Housing.** The Convertible and Reversible feature enables the fan to be changed to any hand or discharge by removing a few bolts, turning the casing around and replacing the bolts.

**Hanger.** The hanger is “low-cut” so that a large pulley can be used if desired. This hanger also permits the use of a belt coming up from below at a sharp angle.



## **Slow Speed Low Power Planing Mill Exhauster—Design 6**

### **EXPLANATION OF TABLES**

The capacities of these fans are measured in a pipe the size of the fan inlet and upon the inlet side of the fan, with outlet also connected to a pipe of the same size by a taper transformation piece.

The tables are made upon this basis because fans used for conveying are usually piped in this manner.

Other than the above the information contained in the general explanation of tables shown at the front of this book applies.

## **Slow Speed Low Power Planing Mill Exhauster — Design 6**

### **APPROXIMATE WEIGHTS**

| <b>Size</b> | <b>Single</b> | <b>Double</b> |
|-------------|---------------|---------------|
| 30          | 1825          | 2800          |
| 35          | 2250          | 3475          |
| 40          | 3387          | 4925          |
| 45          | 4050          | 6275          |
| 50          | 5375          | 8175          |

Single Inlet

## Slow Speed Low Power Planing Mill

Single Width

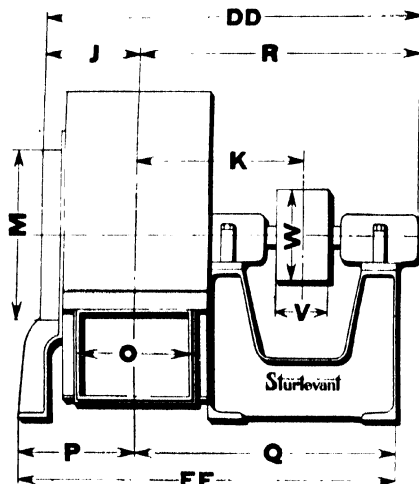
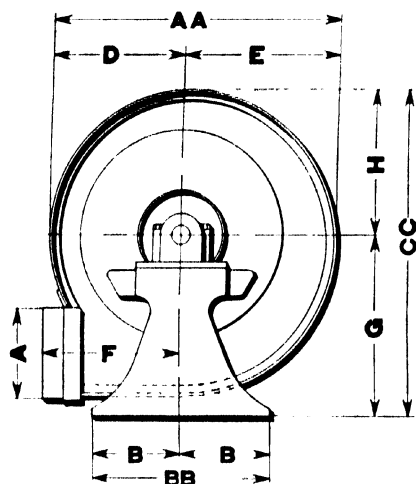
Full Housing

## Exhauster—Design 6

Overhung Wheel

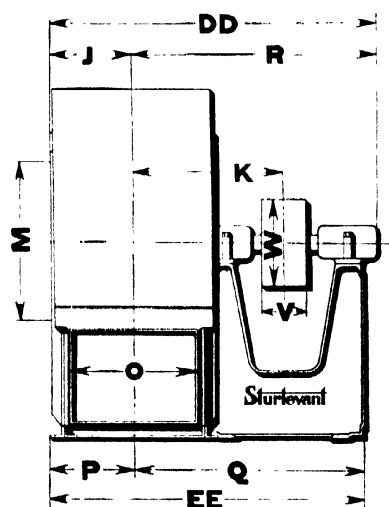
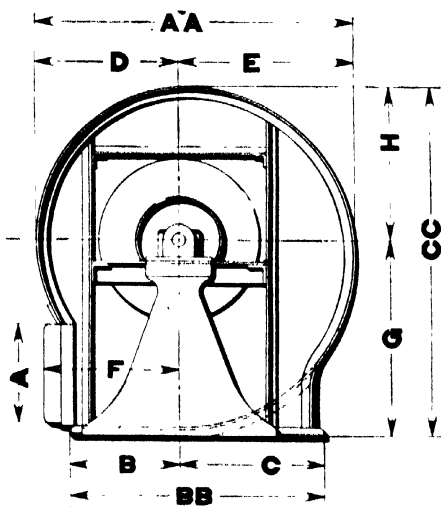
Bottom Horizontal Discharge

Sizes 30 to 70 Convertible



| Fan Size | A  | B  | D  | E  | F  | G  | H  | J  | K  | M  | O  | P  | Q  | R  | V  | W  | AA | BB | CC | DD | EE | Wheel Diameter | Shaft Diameter | Anchor Bolts |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----------------|----------------|--------------|
| 30       | 9  | 9  | 13 | 15 | 14 | 18 | 11 | 8  | 16 | 16 | 12 | 10 | 26 | 28 | 5  | 9  | 29 | 18 | 32 | 36 | 36 | 24             | 1 1/2          | 1            |
| 35       | 11 | 10 | 15 | 18 | 16 | 21 | 16 | 9  | 18 | 18 | 14 | 11 | 29 | 31 | 5  | 10 | 34 | 21 | 37 | 41 | 41 | 28             | 1 1/2          | 2            |
| 40       | 12 | 12 | 17 | 21 | 17 | 23 | 18 | 10 | 20 | 20 | 16 | 12 | 31 | 34 | 5  | 11 | 39 | 24 | 42 | 44 | 44 | 32             | 1 1/2          | 3            |
| 45       | 14 | 13 | 20 | 24 | 19 | 27 | 21 | 11 | 22 | 22 | 18 | 14 | 35 | 38 | 5  | 13 | 44 | 27 | 48 | 49 | 49 | 36             | 1 1/2          | 4            |
| 50       | 15 | 15 | 22 | 26 | 21 | 30 | 23 | 12 | 25 | 24 | 20 | 15 | 39 | 42 | 8  | 13 | 48 | 30 | 53 | 55 | 54 | 40             | 1 1/2          | 4            |
| 55       | 17 | 16 | 24 | 29 | 24 | 33 | 26 | 13 | 27 | 26 | 22 | 17 | 42 | 46 | 8  | 15 | 51 | 33 | 59 | 60 | 59 | 44             | 2 1/8          | 7            |
| 60       | 18 | 18 | 26 | 32 | 26 | 36 | 28 | 15 | 29 | 28 | 24 | 18 | 45 | 50 | 10 | 15 | 59 | 36 | 64 | 65 | 64 | 48             | 2 1/8          | 7            |
| 70       | 21 | 21 | 30 | 37 | 29 | 42 | 32 | 17 | 33 | 33 | 28 | 20 | 50 | 55 | 11 | 16 | 67 | 42 | 74 | 72 | 71 | 56             | 2 1/8          | 1            |

Sizes 80 and 90 Non-Convertible



| Fan Size | A  | B  | C  | D  | E  | F  | G  | H  | J  | K  | M  | O  | P  | Q  | R  | V  | W  | AA | BB | CC | DD | EE | Wheel Dia. | Shaft Dia. | Anchor Bolts |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|------------|------------|--------------|
| 80       | 24 | 26 | 35 | 35 | 42 | 33 | 48 | 36 | 18 | 35 | 38 | 32 | 19 | 55 | 59 | 12 | 20 | 77 | 61 | 84 | 77 | 74 | 64         | 2 1/8      | 1            |
| 90       | 27 | 30 | 40 | 39 | 48 | 37 | 54 | 41 | 20 | 39 | 43 | 36 | 21 | 61 | 65 | 13 | 24 | 88 | 70 | 95 | 86 | 83 | 72         | 2 1/8      | 1            |

Single Inlet

## Slow Speed Low Power Planing Mill

Single Width

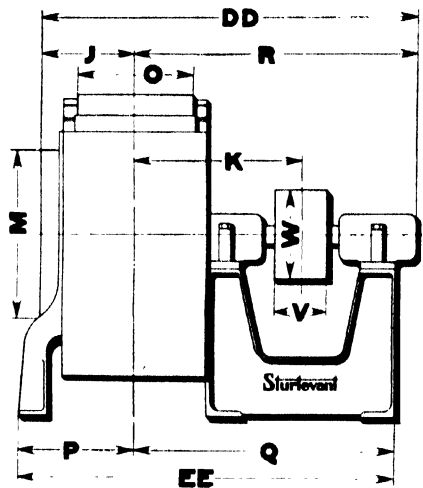
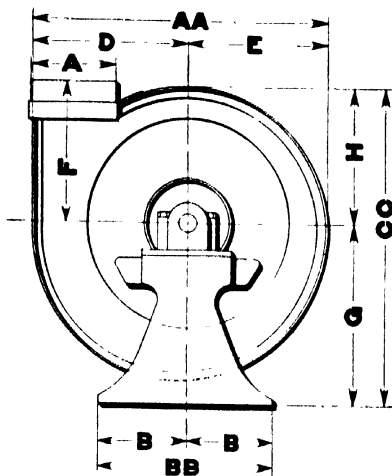
Full Housing

## Exhauster—Design 6

Overhung Wheel

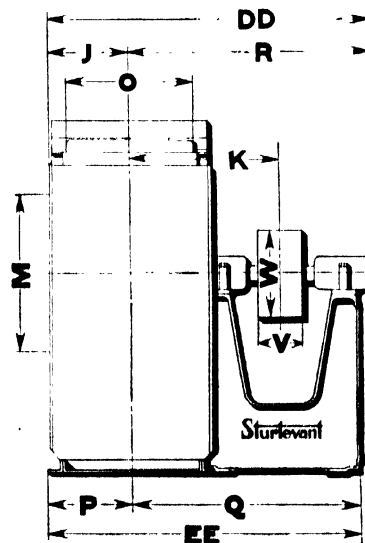
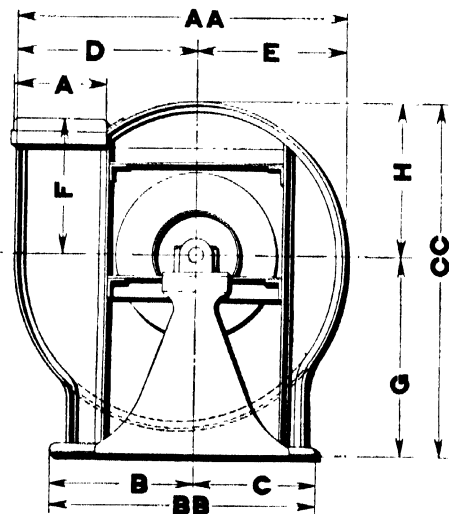
Up Blast Discharge

Sizes 30 to 70 Convertible



| Fan Size | A  | B  | D  | E  | F  | G  | H  | J  | K  | M  | O  | P  | Q  | R  | V  | W  | AA | BB | CC | DD | EE | Wheel Diameter | Shaft Diameter | Anchor Bolts |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----------------|----------------|--------------|
| 30       | 9  | 9  | 16 | 14 | 14 | 18 | 13 | 8  | 16 | 16 | 12 | 10 | 26 | 28 | 5  | 9  | 30 | 18 | 31 | 36 | 36 | 24             | 1 1/2          | 1/2          |
| 35       | 11 | 10 | 19 | 16 | 16 | 21 | 15 | 9  | 18 | 18 | 14 | 11 | 29 | 31 | 5  | 10 | 35 | 21 | 36 | 41 | 41 | 28             | 1 1/2          | 5/8          |
| 40       | 12 | 12 | 22 | 18 | 17 | 23 | 17 | 10 | 20 | 20 | 16 | 12 | 31 | 34 | 5  | 11 | 41 | 24 | 41 | 44 | 44 | 32             | 1 1/2          | 3/4          |
| 45       | 14 | 13 | 25 | 21 | 19 | 27 | 20 | 11 | 22 | 22 | 18 | 14 | 35 | 38 | 5  | 13 | 46 | 27 | 47 | 49 | 49 | 36             | 1 1/2          | 3/4          |
| 50       | 15 | 15 | 27 | 23 | 21 | 30 | 22 | 12 | 25 | 24 | 20 | 15 | 39 | 42 | 8  | 13 | 50 | 30 | 52 | 55 | 54 | 40             | 1 1/2          | 3/4          |
| 55       | 17 | 16 | 30 | 26 | 24 | 33 | 24 | 13 | 27 | 26 | 22 | 17 | 42 | 46 | 8  | 15 | 56 | 33 | 57 | 60 | 59 | 44             | 2 3/16         | 7/8          |
| 60       | 18 | 18 | 33 | 28 | 26 | 36 | 26 | 15 | 29 | 28 | 24 | 18 | 45 | 50 | 10 | 15 | 61 | 36 | 62 | 65 | 64 | 48             | 2 3/16         | 7/8          |
| 70       | 21 | 21 | 38 | 32 | 29 | 42 | 30 | 17 | 33 | 33 | 28 | 20 | 50 | 55 | 11 | 16 | 71 | 42 | 72 | 72 | 71 | 56             | 2 3/16         | 1            |

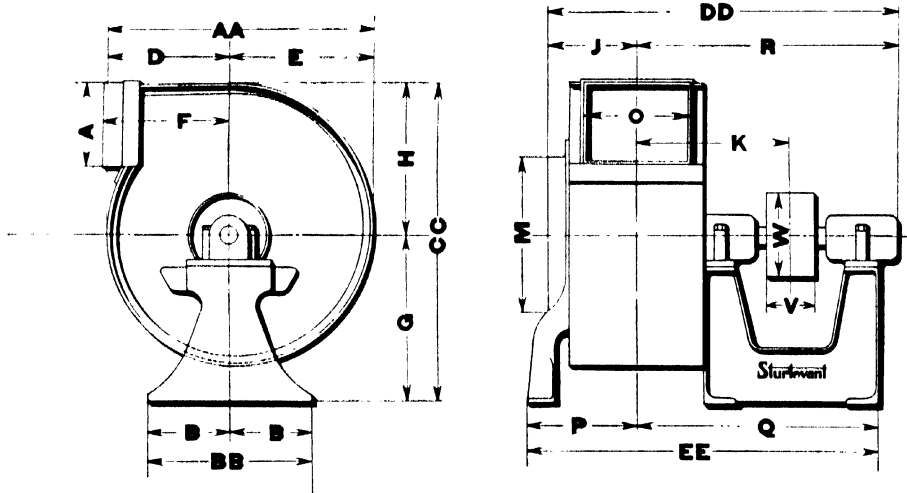
Sizes 80 and 90 Non-Convertible



| Fan Size | A  | B  | C  | D  | E  | F  | G  | H  | J  | K  | M  | O  | P  | Q  | R  | V  | W  | AA | BB | CC | DD | EE | Wheel Dia. | Shaft Dia. | Anchor Bolts |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|------------|------------|--------------|
| 80       | 24 | 35 | 29 | 44 | 36 | 33 | 48 | 35 | 18 | 35 | 38 | 32 | 19 | 55 | 59 | 12 | 20 | 80 | 64 | 83 | 77 | 74 | 64         | 2 1/2      | 1            |
| 90       | 27 | 40 | 33 | 50 | 41 | 37 | 54 | 39 | 20 | 39 | 43 | 36 | 21 | 61 | 65 | 13 | 24 | 92 | 73 | 93 | 86 | 83 | 72         | 2 1/2      | 1            |

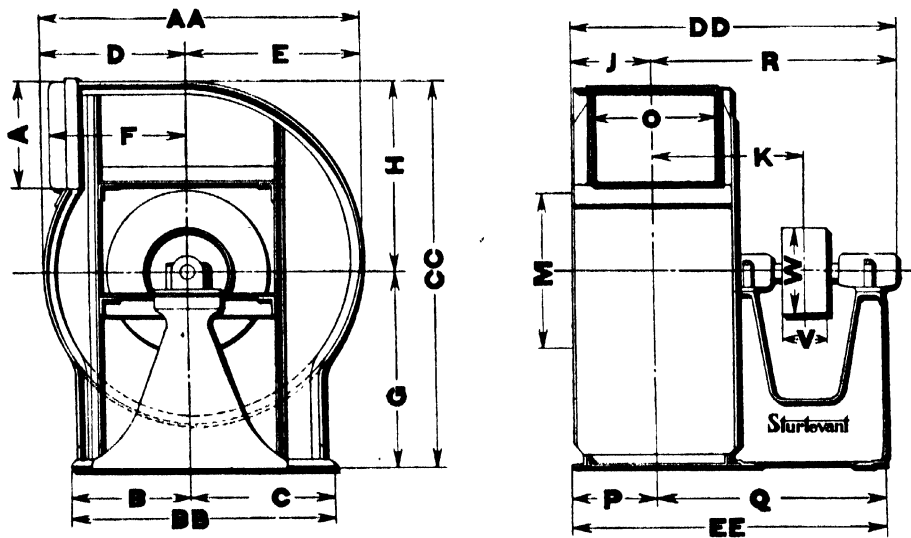
Single Inlet      **Slow Speed Low Power Planing Mill**      Single Width  
 Full Housing      **Exhauster—Design 6**      Overhung Wheel  
 Top Horizontal Discharge

Sizes 30 to 70 Convertible



| Pan Size | A  | B   | D   | E   | F   | G   | H   | J   | K   | M   | O  | P   | Q   | R   | V   | W  | AA  | BB | CC  | DD  | EE  | Wheel Diameter | Shaft Diameter | Anchor Bolts |
|----------|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|-----|-----|-----|-----|----|-----|----|-----|-----|-----|----------------|----------------|--------------|
| 30       | 9  | 9   | 13½ | 15½ | 14  | 18  | 16½ | 8½  | 16½ | 16½ | 12 | 10½ | 26½ | 28½ | 5½  | 9  | 29½ | 18 | 34½ | 36½ | 36½ | 24             | 1½             | 1            |
| 35       | 11 | 10½ | 15½ | 18½ | 16½ | 21  | 19½ | 9½  | 18½ | 18½ | 14 | 11½ | 29½ | 31½ | 5½  | 10 | 34½ | 21 | 40½ | 41  | 41  | 28             | 1½             | 1            |
| 40       | 12 | 12  | 17½ | 21½ | 17½ | 23½ | 22½ | 10½ | 20½ | 20½ | 16 | 12½ | 31½ | 34  | 5½  | 11 | 39½ | 24 | 46  | 44½ | 44½ | 32             | 1½             | 1            |
| 45       | 14 | 13½ | 20  | 24  | 19½ | 27  | 25  | 11½ | 22½ | 22½ | 18 | 14  | 35½ | 38½ | 5½  | 13 | 44  | 27 | 52  | 49½ | 49½ | 36             | 1½             | 1            |
| 50       | 15 | 15  | 22  | 26½ | 21½ | 30  | 27½ | 12½ | 25½ | 24½ | 20 | 15½ | 39  | 42½ | 8½  | 13 | 48½ | 30 | 57½ | 55½ | 54½ | 40             | 1½             | 1            |
| 55       | 17 | 16½ | 24½ | 29½ | 24½ | 33  | 30½ | 13½ | 27½ | 26½ | 22 | 17  | 42½ | 46½ | 8½  | 15 | 54½ | 33 | 63½ | 60½ | 59½ | 44             | 2              | 1            |
| 60       | 18 | 18  | 26½ | 32½ | 26½ | 36  | 33½ | 15  | 29½ | 28½ | 24 | 18½ | 45½ | 50½ | 10½ | 15 | 59  | 36 | 69½ | 65½ | 64  | 48             | 2              | 1            |
| 70       | 21 | 21  | 30½ | 37  | 29½ | 42  | 38½ | 17½ | 33  | 33  | 28 | 20½ | 50½ | 55½ | 11½ | 16 | 67½ | 42 | 80½ | 72½ | 71  | 56             | 2½             | 1            |

Sizes 80 and 90 Non-Convertible



| Pan Size | A  | B  | C  | D   | E   | F   | G  | H   | J   | K   | M   | O  | P   | Q   | R   | V   | W  | AA  | BB | CC   | DD  | EE  | Wheel Dia. | Shaft Dia. | Anchor Bolts |
|----------|----|----|----|-----|-----|-----|----|-----|-----|-----|-----|----|-----|-----|-----|-----|----|-----|----|------|-----|-----|------------|------------|--------------|
| 80       | 24 | 29 | 35 | 35½ | 42½ | 33½ | 48 | 44½ | 18½ | 35½ | 38½ | 32 | 19½ | 55½ | 59½ | 12½ | 20 | 77½ | 64 | 92½  | 77½ | 74½ | 64         | 2½         | 1            |
| 90       | 27 | 33 | 40 | 39½ | 48½ | 37½ | 54 | 50½ | 20½ | 39½ | 43½ | 36 | 21½ | 61½ | 65½ | 13½ | 24 | 88  | 73 | 104½ | 86½ | 83  | 72         | 2½         | 1            |

Single Inlet

# Slow Speed Low Power Planing Mill Exhauster—Design 6

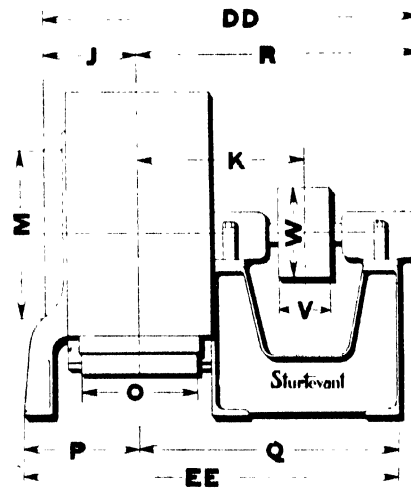
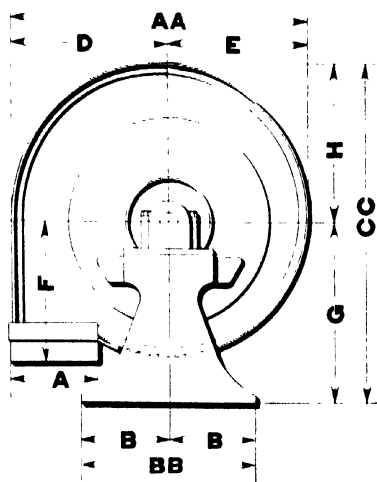
Single Width

Full Housing

Overhung Wheel

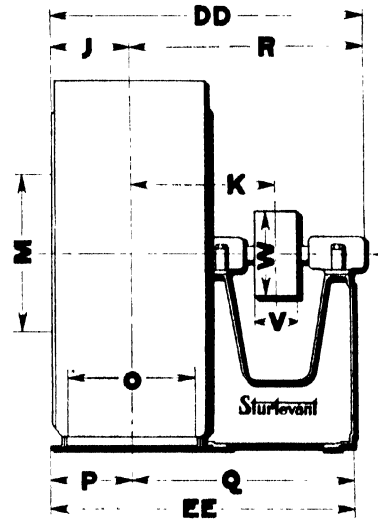
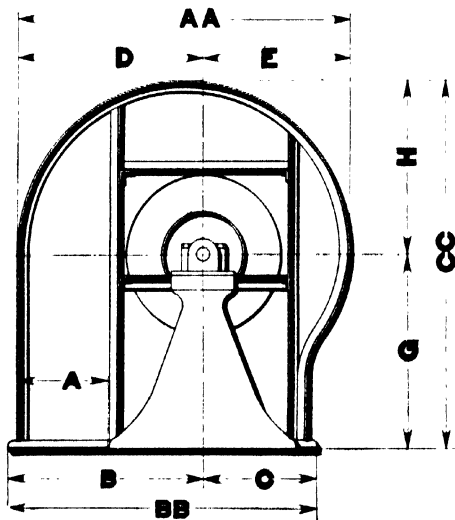
Down Blast Discharge

Sizes 30 to 70 Convertible



| Fan Size | A  | B  | D  | E  | F  | G  | H  | J  | K  | M  | O  | P  | Q  | R  | V  | W  | AA | BB | CC | DD | EE | Wheel Diameter | Shaft Diameter | Anchor Bolts |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----------------|----------------|--------------|
| 30       | 9  | 9  | 16 | 11 | 11 | 18 | 15 | 8  | 16 | 16 | 12 | 10 | 26 | 28 | 5  | 9  | 30 | 18 | 33 | 36 | 36 | 24             | 1 1/2          | 1            |
| 35       | 11 | 10 | 19 | 16 | 16 | 21 | 18 | 9  | 18 | 18 | 14 | 11 | 29 | 31 | 5  | 10 | 35 | 21 | 39 | 41 | 41 | 28             | 1 1/2          | 1            |
| 40       | 12 | 12 | 22 | 18 | 17 | 23 | 21 | 10 | 20 | 20 | 16 | 12 | 31 | 34 | 5  | 11 | 41 | 24 | 45 | 44 | 44 | 32             | 1 1/2          | 2            |
| 45       | 14 | 13 | 25 | 21 | 19 | 27 | 24 | 11 | 22 | 22 | 18 | 14 | 35 | 38 | 5  | 13 | 46 | 27 | 51 | 49 | 49 | 36             | 1 1/2          | 2            |
| 50       | 15 | 15 | 27 | 23 | 21 | 30 | 26 | 12 | 25 | 24 | 20 | 15 | 39 | 42 | 8  | 13 | 50 | 30 | 56 | 55 | 54 | 40             | 1 1/2          | 2            |
| 55       | 17 | 16 | 30 | 26 | 24 | 33 | 29 | 13 | 27 | 26 | 22 | 17 | 42 | 46 | 8  | 15 | 56 | 33 | 62 | 60 | 59 | 44             | 2 1/4          | 2            |
| 60       | 18 | 18 | 33 | 28 | 26 | 36 | 32 | 15 | 29 | 28 | 24 | 18 | 45 | 50 | 10 | 15 | 61 | 36 | 68 | 65 | 64 | 48             | 2 1/4          | 2            |
| 70       | 21 | 21 | 38 | 32 | 29 | 42 | 37 | 17 | 33 | 33 | 28 | 20 | 50 | 55 | 11 | 16 | 71 | 42 | 79 | 72 | 71 | 56             | 2 3/4          | 1            |

Sizes 80 and 90 Non-Convertible



| Fan Size | A  | B  | C  | D  | E  | G  | H  | J  | K  | M  | O  | P  | Q  | R  | V  | W  | AA | BB | CC  | DD | EE | Wheel Diameter | Shaft Diameter | Anchor Bolts |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|----|----|----------------|----------------|--------------|
| 80       | 23 | 47 | 29 | 44 | 36 | 48 | 42 | 18 | 35 | 38 | 31 | 19 | 55 | 59 | 12 | 20 | 80 | 76 | 90  | 77 | 74 | 64             | 2 1/2          | 1            |
| 90       | 26 | 53 | 33 | 50 | 41 | 54 | 48 | 20 | 39 | 43 | 35 | 21 | 61 | 65 | 13 | 24 | 92 | 86 | 102 | 86 | 83 | 72             | 2 1/2          | 1            |

Single Inlet

**Double Slow Speed Low Power Planing**

Double Width

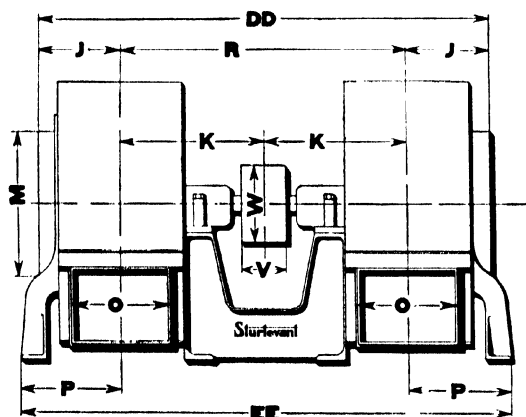
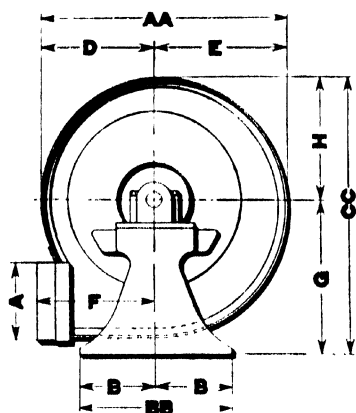
Full Housing

**Mill Exhauster—Design 6**

Overhung Wheel

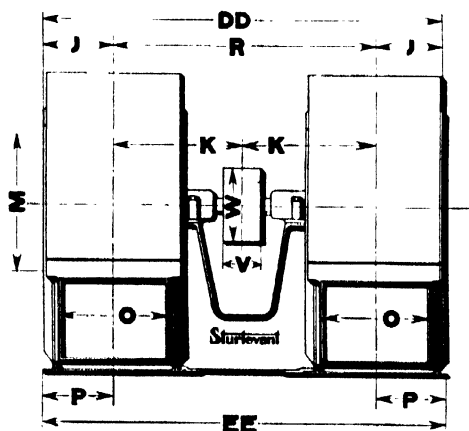
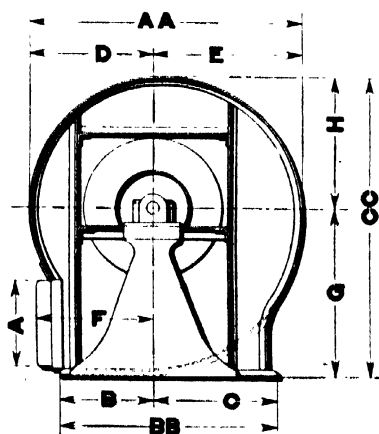
Bottom Horizontal Discharge

Sizes 30 to 70 Convertible



| Fan Size | A  | B                | D                | E                | F                | G                | H                | J                | K                | M                | O  | P                | R                | V                | W  | AA               | BB | CC               | DD                | EE                | Wheel Diameter | Shaft Diameter  | Anchor Bolts |
|----------|----|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|----|------------------|------------------|------------------|----|------------------|----|------------------|-------------------|-------------------|----------------|-----------------|--------------|
| 30       | 9  | 9                | 13 $\frac{1}{2}$ | 15 $\frac{1}{2}$ | 14               | 18               | 14 $\frac{1}{2}$ | 8 $\frac{1}{2}$  | 16 $\frac{1}{2}$ | 16 $\frac{1}{2}$ | 12 | 10 $\frac{3}{4}$ | 33 $\frac{1}{2}$ | 6 $\frac{1}{2}$  | 10 | 29 $\frac{1}{2}$ | 18 | 32 $\frac{1}{2}$ | 50                | 54 $\frac{1}{2}$  | 24             | 1 $\frac{1}{2}$ | 1            |
| 35       | 11 | 10 $\frac{1}{2}$ | 15 $\frac{1}{2}$ | 18 $\frac{1}{2}$ | 16 $\frac{1}{2}$ | 21               | 16 $\frac{1}{2}$ | 9 $\frac{1}{2}$  | 18 $\frac{1}{2}$ | 18 $\frac{1}{2}$ | 14 | 11 $\frac{1}{2}$ | 37 $\frac{1}{2}$ | 7                | 11 | 31 $\frac{1}{2}$ | 21 | 37 $\frac{1}{2}$ | 56 $\frac{1}{2}$  | 61                | 28             | 1 $\frac{1}{2}$ | 1            |
| 40       | 12 | 12               | 17 $\frac{1}{2}$ | 21 $\frac{1}{2}$ | 17 $\frac{1}{2}$ | 23 $\frac{1}{2}$ | 18 $\frac{1}{2}$ | 10 $\frac{1}{2}$ | 20 $\frac{1}{2}$ | 20 $\frac{1}{2}$ | 16 | 12 $\frac{1}{2}$ | 41               | 7 $\frac{1}{2}$  | 12 | 39 $\frac{1}{2}$ | 24 | 42               | 61 $\frac{1}{2}$  | 66 $\frac{1}{2}$  | 32             | 1 $\frac{1}{2}$ | 1            |
| 45       | 14 | 13 $\frac{1}{2}$ | 20               | 24               | 19 $\frac{1}{2}$ | 27               | 21               | 11 $\frac{1}{2}$ | 22 $\frac{1}{2}$ | 22 $\frac{1}{2}$ | 18 | 14               | 45 $\frac{1}{2}$ | 8                | 13 | 44               | 27 | 48               | 68 $\frac{1}{2}$  | 73 $\frac{1}{2}$  | 36             | 1 $\frac{1}{2}$ | 1            |
| 50       | 15 | 15               | 22               | 26 $\frac{1}{2}$ | 21 $\frac{1}{2}$ | 30               | 23 $\frac{1}{2}$ | 12 $\frac{1}{2}$ | 25 $\frac{1}{2}$ | 24 $\frac{1}{2}$ | 20 | 15 $\frac{1}{2}$ | 50 $\frac{1}{2}$ | 8 $\frac{1}{2}$  | 14 | 48 $\frac{1}{2}$ | 30 | 53 $\frac{1}{2}$ | 76 $\frac{1}{2}$  | 82 $\frac{1}{2}$  | 40             | 1 $\frac{1}{2}$ | 1            |
| 55       | 17 | 16 $\frac{1}{2}$ | 24 $\frac{1}{2}$ | 29 $\frac{1}{2}$ | 24 $\frac{1}{2}$ | 33               | 26               | 13 $\frac{1}{2}$ | 27 $\frac{1}{2}$ | 26 $\frac{1}{2}$ | 22 | 17               | 55 $\frac{1}{2}$ | 9                | 15 | 54 $\frac{1}{2}$ | 33 | 59               | 83                | 89 $\frac{1}{2}$  | 44             | 2 $\frac{1}{2}$ | 1            |
| 60       | 18 | 18               | 26 $\frac{1}{2}$ | 32 $\frac{1}{2}$ | 26 $\frac{1}{2}$ | 36               | 28 $\frac{1}{2}$ | 15               | 29 $\frac{1}{2}$ | 28 $\frac{1}{2}$ | 24 | 18 $\frac{1}{2}$ | 59 $\frac{1}{2}$ | 12 $\frac{1}{2}$ | 20 | 59               | 36 | 64 $\frac{1}{2}$ | 89 $\frac{1}{2}$  | 96                | 48             | 2 $\frac{1}{2}$ | 1            |
| 70       | 21 | 21               | 30 $\frac{1}{2}$ | 37               | 29 $\frac{1}{2}$ | 42               | 32 $\frac{1}{2}$ | 17 $\frac{1}{2}$ | 33               | 33 $\frac{1}{2}$ | 28 | 20 $\frac{1}{2}$ | 66               | 13 $\frac{1}{2}$ | 24 | 67 $\frac{1}{2}$ | 42 | 74 $\frac{1}{2}$ | 100 $\frac{1}{2}$ | 107 $\frac{1}{2}$ | 56             | 2 $\frac{1}{2}$ | 1            |

Sizes 80 and 90 Non-Convertible



| Fan Size | A  | B                | C  | D                | E                | F                | G  | H                | J                | K                | M                | O  | P                | R                | V                | W  | AA               | BB               | CC               | DD                | EE                | Wheel Diameter | Shaft Diameter  | Anchor Bolts |
|----------|----|------------------|----|------------------|------------------|------------------|----|------------------|------------------|------------------|------------------|----|------------------|------------------|------------------|----|------------------|------------------|------------------|-------------------|-------------------|----------------|-----------------|--------------|
| 80       | 24 | 26 $\frac{1}{2}$ | 35 | 35 $\frac{1}{2}$ | 42 $\frac{1}{2}$ | 33 $\frac{1}{2}$ | 48 | 36 $\frac{1}{2}$ | 18 $\frac{1}{2}$ | 35 $\frac{1}{2}$ | 38 $\frac{1}{2}$ | 32 | 19 $\frac{1}{2}$ | 71               | 14 $\frac{1}{2}$ | 26 | 77 $\frac{1}{2}$ | 61 $\frac{1}{2}$ | 84 $\frac{1}{2}$ | 108 $\frac{1}{2}$ | 109 $\frac{1}{2}$ | 64             | 2 $\frac{1}{2}$ | 1            |
| 90       | 27 | 30 $\frac{1}{2}$ | 40 | 39 $\frac{1}{2}$ | 48 $\frac{1}{2}$ | 37 $\frac{1}{2}$ | 54 | 41 $\frac{1}{2}$ | 20 $\frac{1}{2}$ | 39 $\frac{1}{2}$ | 43 $\frac{1}{2}$ | 36 | 21 $\frac{1}{2}$ | 79 $\frac{1}{2}$ | 16 $\frac{1}{2}$ | 30 | 88               | 70 $\frac{1}{2}$ | 95 $\frac{1}{2}$ | 121               | 122               | 72             | 2 $\frac{1}{2}$ | 1            |

Single Inlet

## Double Slow Speed Low Power Planing

Double Width

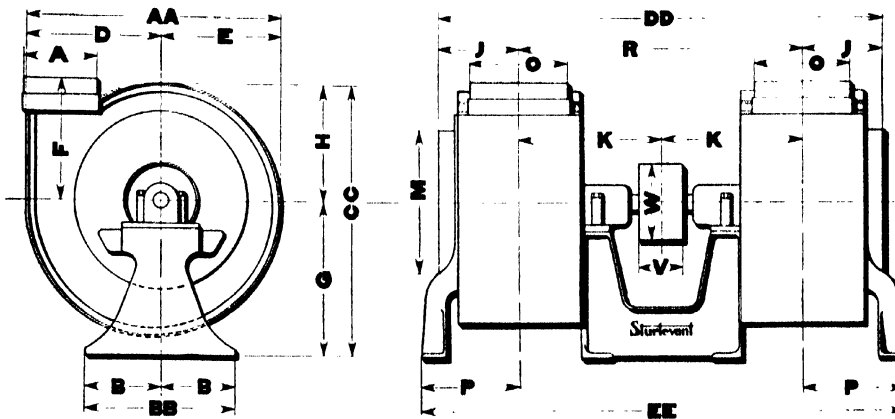
Full Housing

## Mill Exhauster—Design 6

Overhung Wheel

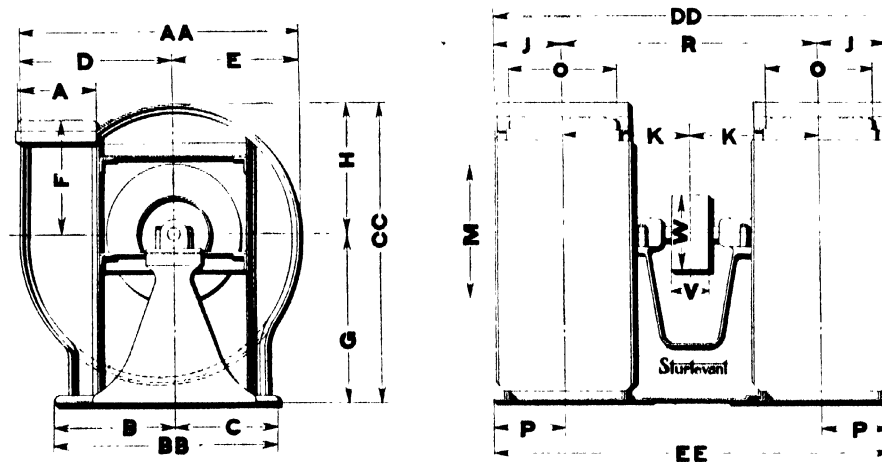
Up Blast Discharge

Sizes 30 to 70 Convertible



| Fan Size | A  | B  | D  | E  | F  | G  | H  | J  | K  | M  | O  | P  | R  | V  | W  | AA | BB | CC | DD  | EE  | Wheel Diameter | Shaft Diameter | Anchor Bolts |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|-----|----------------|----------------|--------------|
| 30       | 9  | 9  | 16 | 11 | 11 | 18 | 13 | 8  | 16 | 16 | 12 | 10 | 33 | 6  | 10 | 30 | 18 | 31 | 50  | 51  | 21             | 1 1/8          | 1/2          |
| 35       | 11 | 10 | 19 | 16 | 16 | 21 | 15 | 9  | 18 | 18 | 11 | 11 | 37 | 7  | 11 | 35 | 21 | 36 | 56  | 61  | 28             | 1 1/2          | 5/8          |
| 40       | 12 | 12 | 22 | 18 | 17 | 23 | 17 | 10 | 20 | 20 | 16 | 12 | 41 | 7  | 12 | 41 | 21 | 41 | 61  | 66  | 32             | 1 1/2          | 3/4          |
| 45       | 14 | 13 | 25 | 21 | 19 | 27 | 20 | 11 | 22 | 22 | 18 | 14 | 45 | 8  | 13 | 46 | 27 | 47 | 68  | 73  | 36             | 1 1/2          | 1            |
| 50       | 15 | 15 | 27 | 23 | 21 | 30 | 22 | 12 | 25 | 24 | 20 | 15 | 50 | 8  | 14 | 50 | 30 | 52 | 76  | 82  | 40             | 1 1/2          | 1            |
| 55       | 17 | 16 | 30 | 26 | 24 | 33 | 24 | 13 | 27 | 26 | 22 | 17 | 55 | 9  | 15 | 56 | 33 | 57 | 83  | 89  | 44             | 2 1/8          | 7/8          |
| 60       | 18 | 18 | 33 | 28 | 26 | 36 | 26 | 15 | 29 | 28 | 24 | 18 | 59 | 12 | 20 | 61 | 36 | 62 | 89  | 96  | 48             | 2 1/8          | 1            |
| 70       | 21 | 21 | 38 | 32 | 29 | 42 | 30 | 17 | 33 | 33 | 28 | 20 | 66 | 13 | 24 | 71 | 42 | 72 | 100 | 107 | 56             | 2 1/8          | 1            |

Sizes 80 and 90 Non-Convertible



| Fan Size | A  | B  | C  | D  | E  | F  | G  | H  | J  | K  | M  | O  | P  | R  | V  | W  | AA | BB | CC | DD  | EE  | Wheel Dia | Shaft Diameter | Anchor Bolts |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|-----|-----------|----------------|--------------|
| 80       | 24 | 35 | 29 | 44 | 36 | 33 | 48 | 35 | 18 | 35 | 38 | 32 | 19 | 71 | 11 | 26 | 81 | 61 | 83 | 108 | 109 | 64        | 2 1/4          | 1            |
| 90       | 27 | 40 | 33 | 50 | 41 | 37 | 54 | 39 | 20 | 39 | 43 | 36 | 21 | 79 | 16 | 30 | 92 | 73 | 93 | 121 | 122 | 72        | 2 1/4          | 1            |



Single Inlet

**Double Slow Speed Low Power Planing**

Double Width

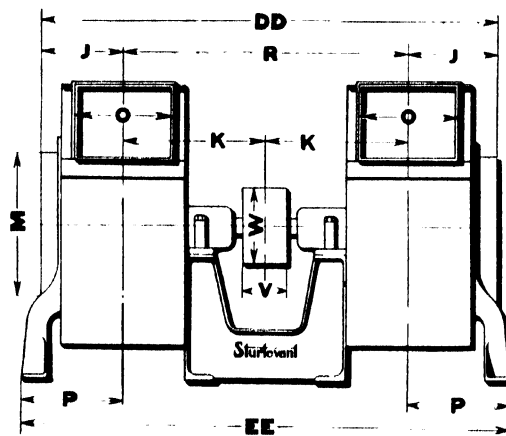
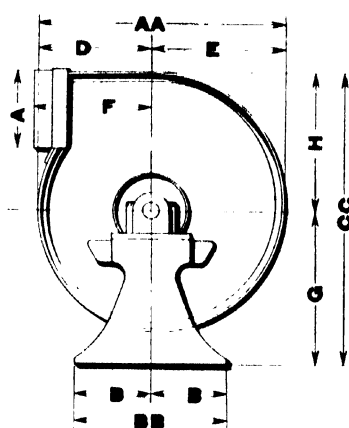
Full Housing

**Mill Exhauster—Design 6**

Overhung Wheel

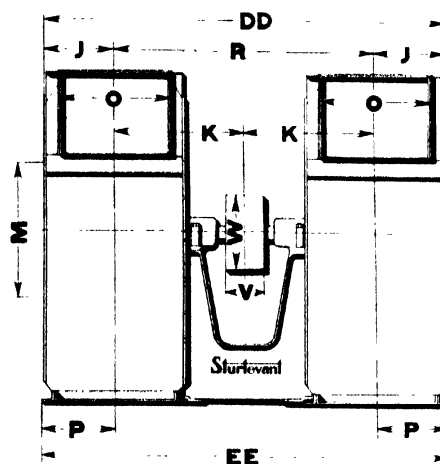
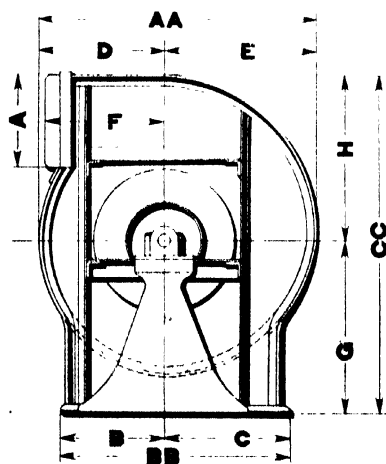
Top Horizontal Discharge

Sizes 30 to 70 Convertible



| Fan Size | A  | B  | C  | D  | E  | F  | G  | H  | J  | K  | L  | M  | N  | O  | P  | Q  | R  | S  | T   | U   | V  | W | AA | BB | CC | DD | EE | Wheel Diameter | Shaft Diameter | Anchor Bolts |   |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|-----|----|---|----|----|----|----|----|----------------|----------------|--------------|---|
| 30       | 9  | 9  | 13 | 15 | 11 | 18 | 16 | 8  | 16 | 16 | 12 | 10 | 33 | 6  | 10 | 29 | 18 | 34 | 50  | 51  | 21 | 1 | 1  | 1  | 1  | 1  | 1  | 1              | 1              | 1            | 1 |
| 35       | 11 | 10 | 15 | 18 | 16 | 21 | 19 | 9  | 18 | 18 | 11 | 11 | 37 | 7  | 11 | 34 | 21 | 40 | 56  | 61  | 28 | 1 | 1  | 1  | 1  | 1  | 1  | 1              | 1              | 1            | 1 |
| 40       | 12 | 12 | 17 | 21 | 17 | 23 | 22 | 10 | 20 | 20 | 16 | 12 | 41 | 7  | 12 | 39 | 24 | 46 | 61  | 66  | 32 | 1 | 1  | 1  | 1  | 1  | 1  | 1              | 1              | 1            | 1 |
| 45       | 14 | 13 | 20 | 24 | 19 | 27 | 25 | 11 | 22 | 22 | 18 | 14 | 45 | 8  | 13 | 44 | 27 | 52 | 68  | 73  | 36 | 1 | 1  | 1  | 1  | 1  | 1  | 1              | 1              | 1            | 1 |
| 50       | 15 | 15 | 22 | 26 | 21 | 30 | 27 | 12 | 25 | 24 | 20 | 15 | 50 | 8  | 14 | 48 | 30 | 57 | 76  | 82  | 40 | 1 | 1  | 1  | 1  | 1  | 1  | 1              | 1              | 1            | 1 |
| 55       | 17 | 16 | 24 | 29 | 24 | 33 | 30 | 13 | 27 | 26 | 22 | 17 | 55 | 9  | 15 | 54 | 33 | 63 | 83  | 89  | 44 | 2 | 1  | 1  | 1  | 1  | 1  | 1              | 1              | 1            | 1 |
| 60       | 18 | 18 | 26 | 32 | 26 | 36 | 33 | 15 | 29 | 28 | 24 | 18 | 59 | 12 | 20 | 59 | 36 | 69 | 89  | 96  | 48 | 2 | 1  | 1  | 1  | 1  | 1  | 1              | 1              | 1            | 1 |
| 70       | 21 | 21 | 30 | 37 | 29 | 42 | 38 | 17 | 33 | 33 | 28 | 20 | 66 | 13 | 24 | 67 | 42 | 80 | 100 | 107 | 56 | 2 | 1  | 1  | 1  | 1  | 1  | 1              | 1              | 1            | 1 |

Sizes 80 and 90 Non-Convertible



| Fan Size | A  | B  | C  | D  | E  | F  | G  | H  | J  | K  | M  | O  | P  | R  | V  | W  | AA | BB | CC  | DD  | EE  | Wheel Diameter | Shaft Dia. | Anchor Bolts |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|-----|-----|----------------|------------|--------------|
| 80       | 21 | 29 | 35 | 35 | 42 | 33 | 48 | 44 | 18 | 35 | 38 | 32 | 19 | 71 | 14 | 26 | 77 | 64 | 92  | 108 | 109 | 61             | 2          | 1            |
| 90       | 27 | 33 | 40 | 39 | 48 | 37 | 54 | 50 | 20 | 39 | 43 | 36 | 21 | 79 | 16 | 30 | 88 | 73 | 104 | 121 | 122 | 72             | 2          | 1            |

Single Inlet

**Double Slow Speed Low Power Planing**

Double Width

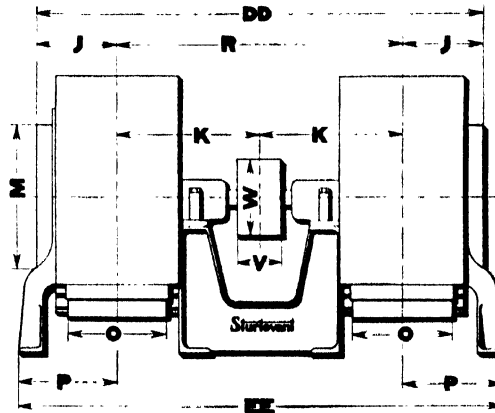
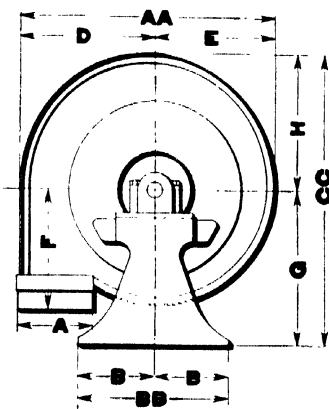
Full Housing

**Mill Exhauster—Design 6**

Overhung Wheel

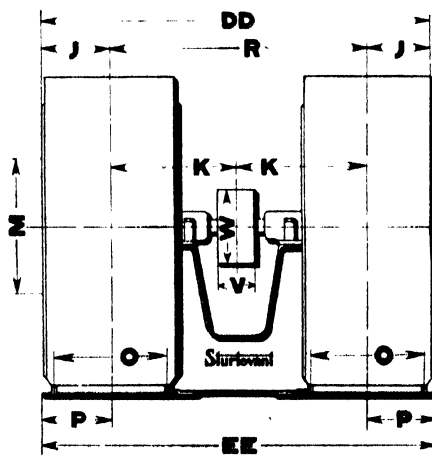
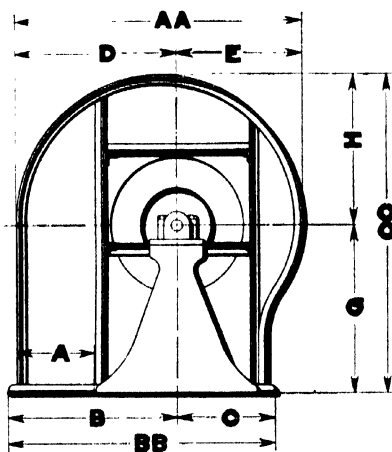
Down Blast Discharge

Sizes 30 to 70 Convertible



| Fan Size | A  | B   | D   | E   | F   | G   | H   | J   | K   | M   | O  | P   | R   | V   | W  | AA  | BB | CC  | DD   | EE   | Wheel Diameter | Shaft Diameter | Anchor Bolts |
|----------|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|-----|-----|-----|----|-----|----|-----|------|------|----------------|----------------|--------------|
| 30       | 9  | 9   | 16½ | 14½ | 14  | 18  | 15½ | 8½  | 16½ | 16½ | 12 | 10½ | 33½ | 6½  | 10 | 30½ | 18 | 33½ | 50   | 54½  | 24             | 1½             | ½            |
| 35       | 11 | 10½ | 19½ | 16½ | 16½ | 21  | 18½ | 9½  | 18½ | 18½ | 14 | 11½ | 37½ | 7   | 11 | 35½ | 21 | 39½ | 56½  | 61   | 28             | 1½             | ¾            |
| 40       | 12 | 12  | 22½ | 18½ | 17½ | 23½ | 21½ | 10½ | 20½ | 20½ | 16 | 12½ | 41  | 7½  | 12 | 41½ | 24 | 45  | 61½  | 66½  | 32             | 1½             | ¾            |
| 45       | 14 | 13½ | 25  | 21  | 19½ | 27  | 24  | 11½ | 22½ | 22½ | 18 | 14  | 45½ | 8   | 13 | 46  | 27 | 51  | 68½  | 73½  | 36             | 1½             | ¾            |
| 50       | 15 | 15  | 27½ | 23½ | 21½ | 30  | 26½ | 12½ | 25½ | 24½ | 20 | 15½ | 50½ | 8½  | 14 | 50½ | 30 | 56½ | 76½  | 82½  | 40             | 1½             | ¾            |
| 55       | 17 | 16½ | 30  | 26  | 24½ | 33  | 29½ | 13½ | 27½ | 26½ | 22 | 17  | 55½ | 9   | 15 | 56½ | 33 | 62½ | 83   | 89½  | 44             | 2½             | ¾            |
| 60       | 18 | 18  | 33½ | 28½ | 26½ | 36  | 32½ | 15  | 29½ | 28½ | 24 | 18½ | 59½ | 12½ | 20 | 61½ | 36 | 68½ | 89½  | 96   | 48             | 2½             | ¾            |
| 70       | 21 | 21  | 38½ | 32½ | 29½ | 42  | 37  | 17½ | 33  | 33½ | 28 | 20½ | 66  | 13½ | 24 | 71  | 42 | 79  | 100½ | 107½ | 56             | 2½             | 1            |

Sizes 80 and 90 Non-Convertible



| Fan Size | A  | B   | C  | D   | E   | G  | H   | J   | K   | M   | O  | P   | R   | V   | W  | AA  | BB  | CC   | DD   | EE   | Wheel Diameter | Shaft Diameter | Anchor Bolts |
|----------|----|-----|----|-----|-----|----|-----|-----|-----|-----|----|-----|-----|-----|----|-----|-----|------|------|------|----------------|----------------|--------------|
| 80       | 23 | 47½ | 29 | 44½ | 36½ | 48 | 42½ | 18½ | 35½ | 38½ | 31 | 19½ | 71  | 14½ | 26 | 81½ | 76½ | 90½  | 108½ | 109½ | 64             | 2½             | 1            |
| 90       | 26 | 53½ | 33 | 50½ | 41½ | 54 | 48½ | 20½ | 39½ | 43½ | 35 | 21½ | 79½ | 16½ | 30 | 92½ | 86½ | 102½ | 121  | 122  | 72             | 2½             | 1            |











Single  
Inlet

# No. 55 Slow Speed Low Power Planing Mill Exhauster

## Design 6

Single  
Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M. H. P. Static Pressure 1" Water .578 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1½" Water .867 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 2" Water 1.16 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 2½" Water 1.45 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 3" Water 1.73 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 3½" Water 2.02 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 4" Water 2.31 ozs. per sq. inch |
|--------|------------------|------------------|---|--|---|--|---|--|---|
| 313    | 3600             | 1.39             | 6,250   | 1.90   |   |  |   |  |   |
| 330    | 3800             | 1.55             | 7,730   | 2.70   |   |  |   |  |   |
| 347    | 4000             | 1.71             | 8,860   | 3.50   | 1,070   | 0.84   |   |  |   |
| 365    | 4200             | 1.88             | 9,960   | 4.35   | 2,520   | 1.30   |   |  |   |
| 382    | 4400             | 2.07             | 11,000  | 5.4  | 7,600   | 3.5  |   |  |   |
| 400    | 4600             | 2.26             | 12,000  | 6.4  | 9,150   | 4.5  | 1,100   | 1.25   |   |
| 417    | 4800             | 2.47             | 13,000  | 7.6  | 10,300  | 5.8  | 2,380   | 1.75   |   |
| 435    | 5000             | 2.68             | 13,900  | 8.9  | 11,400  | 7.1  | 8,000   | 4.80   |   |
| 455    | 5250             | 2.95             | 15,000  | 10.5   | 12,700  | 8.8  | 10,100  | 6.80   | 1,840   |
| 480    | 5500             | 3.24             | 16,100  | 12.5   | 14,000  | 11.0   | 11,700  | 8.65   | 6,800   |
| 500    | 5750             | 3.54             | 17,200  | 15   | 15,300  | 13.0   | 13,100  | 10.5   | 10,400  |
| 520    | 6000             | 3.85             | 18,300  | 17   | 16,400  | 15.0   | 14,700  | 13.5   | 12,100  |
| 545    | 6250             | 4.18             | 19,300  | 20   | 17,600  | 17.5   | 15,800  | 15.5   | 13,900  |
| 565    | 6500             | 4.52             |   |  | 18,700  | 20   | 16,900  | 18.0   | 15,000  |
| 585    | 6750             | 4.81             |   |  | 19,700  | 23   | 18,100  | 20.5   | 16,500  |
| 610    | 7000             | 5.24             |   |  |   |  | 19,300  | 24.5   | 17,600  |
| 650    | 7500             | 6.02             |   |  |   | 21,500   | 31  | 20,100   | 29  |
| 695    | 8000             | 6.85             |   |  |   |  |   | 22,400   | 37  |
| 740    | 8500             | 7.71             |   |  |   |  |   | 24,650   | 46  |
| 785    | 9000             | 8.67             |   |  |   |  |   |  |   |
| 825    | 9500             | 9.66             |   |  |   |  |   | 25,500   | 54  |
| 870    | 10000            | 10.7             |   |  |   |  |   | 27,700   | 64  |
| 910    | 10500            | 11.8             |   |  |   |  |   |  |   |
| 960    | 11000            | 12.9             |   |  |   |  |   |  |   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 4½" Water 2.6 ozs. per sq. inch                     | Static Pressure 5" Water 2.89 ozs. per sq. inch                      | Static Pressure 5½" Water 3.18 ozs. per sq. inch                    | Static Pressure 6" Water 3.47 ozs. per sq. inch                      | Static Pressure 7" Water 4.05 ozs. per sq. inch                     | Static Pressure 8" Water 4.63 ozs. per sq. inch                      | Static Pressure 9" Water 5.2 ozs. per sq. inch                      |
| 650    | 7500             | 6.02             | 11,000  | 16   | 3,000   | 6.3  | 1,200   | 5.5  |   |
| 695    | 8000             | 6.85             | 16,000  | 25   | 13,700  | 21   | 4,380   | 8.6  | 2,110   |
| 740    | 8500             | 7.71             | 19,100  | 31   | 17,400  | 31   | 14,900  | 25   | 10,000  |
| 785    | 9000             | 8.67             | 21,700  | 44   | 20,300  | 41   | 18,800  | 37   | 17,100  |
| 825    | 9500             | 9.66             | 24,300  | 56   | 23,000  | 52   | 21,700  | 49   | 20,300  |
| 870    | 10000            | 10.7             | 26,700  | 70   | 25,600  | 66   | 24,200  | 62   | 23,100  |
| 910    | 10500            | 11.8             | 29,000  | 82   | 28,100  | 80   | 26,800  | 72   | 25,700  |
| 960    | 11000            | 12.9             | 31,300  | 98   | 30,400  | 94   | 29,300  | 86   | 28,200  |
| 1000   | 11500            | 14.2             | 33,400  | 115  | 32,600  | 110  | 31,600  | 110  | 30,500  |
| 1040   | 12000            | 15.4             |   |  | 34,900  | 130  | 33,900  | 125  | 32,600  |
| 1090   | 12500            | 16.7             |   |  | 36,900  | 150  | 36,000  | 145  | 35,200  |
| 1130   | 13000            | 18.1             |   |  |   |  | 38,400  | 170  | 37,300  |
| 1170   | 13500            | 19.5             |   |  |   |  |   |  |   |
| 1220   | 14000            | 21.0             |   |  |   |  | 30,500  | 185  |   |
| 1290   | 14500            | 22.6             |   |  |   |  |   |  |   |
| 1300   | 15000            | 24.1             |   |  |   |  | 40,300  | 205  |   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 10" Water 5.78 ozs. per sq. inch                    | Static Pressure 11" Water 6.36 ozs. per sq. inch                     | Static Pressure 12" Water 6.94 ozs. per sq. inch                    | Static Pressure 13" Water 7.51 ozs. per sq. inch                     | Static Pressure 14" Water 8.09 ozs. per sq. inch                    | Static Pressure 15" Water 8.67 ozs. per sq. inch                     | Static Pressure 00" Water 0.00 ozs. per sq. inch                    |
| 910    | 10500            | 11.8             | 3,680   | 16.5   |   |  |   |  |   |
| 960    | 11000            | 12.9             | 13,450  | 39   | 3,640   | 18.5   |   |  |   |
| 1000   | 11500            | 14.2             | 21,000  | 66   | 12,200  | 40   |   |  |   |
| 1040   | 12000            | 15.4             | 24,200  | 84   | 21,300  | 74   | 4,140   | 22   |   |
| 1090   | 12500            | 16.7             | 27,300  | 105  | 24,900  | 94   | 11,850  | 47   |   |
| 1130   | 13000            | 18.1             | 30,900  | 125  | 28,100  | 115  | 23,100  | 94   |   |
| 1170   | 13500            | 19.5             | 32,700  | 150  | 30,800  | 140  | 26,600  | 115  |   |
| 1220   | 14000            | 21.0             | 35,300  | 175  | 33,600  | 165  | 29,610  | 145  |   |
| 1260   | 14500            | 22.6             | 37,800  | 200  | 36,200  | 190  | 32,600  | 170  |   |
| 1300   | 15000            | 24.1             | 40,300  | 230  | 38,600  | 220  | 35,300  | 200  |   |



Single  
Inlet

# No. 60 Slow Speed Low Power Planing Mill Exhauster Design 6

Single  
Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip<br>Speed<br>F.P.M. | S.N.D.<br>in<br>inches | Volume<br>C.F.M.<br>H. P. | Static Pressure<br>1" Water<br>.578 ozs. per<br>sq. inch | Volume<br>C.F.M.<br>H. P. | Static Pressure<br>1½" Water<br>.867 ozs. per<br>sq. inch | Volume<br>C.F.M.<br>H. P. | Static Pressure<br>2" Water<br>1.16 ozs. per<br>sq. inch | Volume<br>C.F.M.<br>H. P. | Static Pressure<br>2½" Water<br>1.45 ozs. per<br>sq. inch | Volume<br>C.F.M.<br>H. P. | Static Pressure<br>3" Water<br>1.73 ozs. per<br>sq. inch | Volume<br>C.F.M.<br>H. P. | Static Pressure<br>3½" Water<br>2.02 ozs. per<br>sq. inch | Volume<br>C.F.M.<br>H. P. | Static Pressure<br>4" Water<br>2.31 ozs. per<br>sq. inch |
|--------|------------------------|------------------------|---------------------------|--|---------------------------|---|---------------------------|--|---------------------------|---|---------------------------|--|---------------------------|---|---------------------------|--|
| 285    | 3600                   | 1.39                   | 7.150                     | 2.2  |                           |   |                           |  |                           |   |                           |  |                           |   |                           |  |
| 300    | 3800                   | 1.55                   | 8.850                     | 3.1  |                           |   |                           |  |                           |   |                           |  |                           |   |                           |  |
| 320    | 4000                   | 1.71                   | 10.200                    | 4.0  | 1.220                     | 0.95  |                           |  |                           |   |                           |  |                           |   |                           |  |
| 335    | 4200                   | 1.88                   | 11.400                    | 5.0  | 2.890                     | 1.05  |                           |  |                           |   |                           |  |                           |   |                           |  |
| 350    | 4400                   | 2.07                   | 12.600                    | 6.2  | 8.700                     | 4.0   |                           |  |                           |   |                           |  |                           |   |                           |  |
| 370    | 4600                   | 2.26                   | 13.900                    | 7.4  | 10.500                    | 5.4   | 1.270                     | 1.45   |                           |   |                           |  |                           |   |                           |  |
| 385    | 4800                   | 2.47                   | 14.900                    | 8.7  | 11.800                    | 6.7   | 2.700                     | 2.0  |                           |   |                           |  |                           |   |                           |  |
| 400    | 5000                   | 2.68                   | 15.900                    | 10.0   | 13.100                    | 8.2   | 9.180                     | 5.5  |                           |   |                           |  |                           |   |                           |  |
| 420    | 5250                   | 2.95                   | 17.200                    | 12.0   | 14.600                    | 10.0  | 11.600                    | 7.8  | 2.110                     | 2.35  |                           |  |                           |   |                           |  |
| 440    | 5500                   | 3.24                   | 18.400                    | 14.5   | 16.100                    | 12.5  | 13.400                    | 9.9  | 7.850                     | 5.7   |                           |  |                           |   |                           |  |
| 460    | 5750                   | 3.54                   | 19.700                    | 17.0   | 17.500                    | 14.5  | 15.000                    | 12.5   | 11.900                    | 9.4   | 2.310                     | 3.05   |                           |   |                           |  |
| 480    | 6000                   | 3.85                   | 20.900                    | 19.5   | 18.800                    | 17.5  | 16.800                    | 15.0   | 13.900                    | 12.0  | 6.270                     | 5.7  | 1.220                     | 3.05  |                           |  |
| 500    | 6250                   | 4.18                   | 22.100                    | 23   | 20.200                    | 20.0  | 18.000                    | 18.0   | 15.600                    | 15.0  | 12.600                    | 12   | 2.800                     | 4.1   |                           |  |
| 520    | 6500                   | 4.52                   |                           |  | 21.400                    | 23.5  | 19.400                    | 20.5   | 17.200                    | 18.0  | 14.700                    | 15   | 8.700                     | 11.0  | 1.790                     | 4.05   |
| 540    | 6750                   | 4.81                   |                           |  | 22.600                    | 26.5  | 20.700                    | 23.5   | 19.000                    | 21.5  | 16.300                    | 18   | 13.400                    | 14.5  | 3.140                     | 5.2  |
| 560    | 7000                   | 5.24                   |                           |  |                           |   | 22.200                    | 28   | 20.200                    | 25  | 18.100                    | 22   | 15.900                    | 18.0  | 11.400                    | 13   |
| 600    | 7500                   | 6.02                   |                           |  |                           |   | 24.700                    | 36   | 23.000                    | 34  | 21.100                    | 30   | 19.500                    | 26.5  | 17.000                    | 22   |
| 610    | 8000                   | 6.85                   |                           |  |                           |   |                           |  | 25.600                    | 42  | 24.000                    | 39   | 22.300                    | 37  | 20.300                    | 32   |
| 680    | 8500                   | 7.74                   |                           |  |                           |   |                           |  | 28.200                    | 54  | 26.600                    | 49   | 25.100                    | 46  | 23.400                    | 43   |
| 720    | 9000                   | 8.67                   |                           |  |                           |   |                           |  |                           |   | 29.300                    | 60   | 27.600                    | 58  | 26.300                    | 54   |
| 760    | 9500                   | 9.66                   |                           |  |                           |   |                           |  |                           |   | 31.800                    | 74   | 30.400                    | 70  | 29.100                    | 66   |
| 800    | 10000                  | 10.7                   |                           |  |                           |   |                           |  |                           |   |                           |  | 33.000                    | 84  | 31.800                    | 82   |
| 840    | 10500                  | 11.8                   |                           |  |                           |   |                           |  |                           |   |                           |  | 35.500                    | 100   | 34.400                    | 98   |
| 880    | 11000                  | 12.9                   |                           |  |                           |   |                           |  |                           |   |                           |  |                           |   | 36.700                    | 115  |

| R.P.M. | Tip<br>Speed<br>F.P.M. | S.N.D.<br>in<br>inches | Static Pressure<br>4½" Water<br>2.6 ozs. per<br>sq. inch | Static Pressure<br>5" Water<br>2.89 ozs. per<br>sq. inch | Static Pressure<br>5½" Water<br>3.18 ozs. per<br>sq. inch | Static Pressure<br>6" Water<br>3.47 ozs. per<br>sq. inch | Static Pressure<br>7" Water<br>4.05 ozs. per<br>sq. inch | Static Pressure<br>8" Water<br>4.63 ozs. per<br>sq. inch | Static Pressure<br>9" Water<br>5.2 ozs. per<br>sq. inch |     |        |     |
|--------|------------------------|------------------------|--|--|---|--|--|--|---|-----|--------|-----|
| 600    | 7500                   | 6.02                   | 13.700   | 18.5   | 3.500   | 72   | 1.440  | 6.1  |   |     |        |     |
| 640    | 8000                   | 6.85                   | 18.300   | 28   | 15.600  | 24   | 5.020  | 9.9  |   |     |        |     |
| 680    | 8500                   | 7.74                   | 21.900   | 39   | 19.900  | 35   | 17.000   | 29   | 2.420   | 7.6 |        |     |
| 720    | 9000                   | 8.67                   | 24.900   | 50   | 23.300  | 46   | 21.600   | 43   | 11.400  | 20  |        |     |
| 760    | 9500                   | 9.66                   | 27.800   | 64   | 26.400  | 60   | 24.800   | 56   | 19.500  | 30  |        |     |
| 800    | 10000                  | 10.7                   | 30.700   | 80   | 29.300  | 75   | 27.800   | 70   | 23.300  | 52  |        |     |
| 840    | 10500                  | 11.8                   | 33.200   | 94   | 32.200  | 90   | 30.700   | 86   | 26.500  | 66  |        |     |
| 880    | 11000                  | 12.9                   | 35.900   | 115  | 34.900  | 110  | 33.600   | 105  | 29.500  | 82  |        |     |
| 920    | 11500                  | 14.2                   | 38.300   | 130  | 37.300  | 125  | 36.200   | 125  | 32.200  | 100 |        |     |
| 960    | 12000                  | 15.4                   |  |  | 40.000  | 150  | 38.800   | 145  | 35.000  | 120 |        |     |
| 1000   | 12500                  | 16.7                   |  |  | 42.100  | 170  | 41.200   | 165  | 37.600  | 140 |        |     |
| 1040   | 13000                  | 18.1                   |  |  |   |  | 44.000   | 195  | 40.300  | 160 |        |     |
| 1080   | 13500                  | 19.5                   |  |  |   |  |  |  | 42.800  | 185 |        |     |
| 1120   | 14000                  | 21.0                   |  |  |   |  |  |  | 45.300  | 210 |        |     |
| 1160   | 14500                  | 22.6                   |  |  |   |  |  |  |   |     | 48.800 | 235 |
| 1200   | 15000                  | 24.1                   |  |  |   |  |  |  |   |     | 51.300 | 260 |

| R.P.M. | Tip<br>Speed<br>F.P.M. | S.N.D.<br>in<br>inches | Static Pressure<br>10" Water<br>5.78 ozs. per<br>sq. inch | Static Pressure<br>11" Water<br>6.36 ozs. per<br>sq. inch | Static Pressure<br>12" Water<br>6.94 ozs. per<br>sq. inch | Static Pressure<br>13" Water<br>7.51 ozs. per<br>sq. inch | Static Pressure<br>14" Water<br>8.09 ozs. per<br>sq. inch | Static Pressure<br>15" Water<br>8.67 ozs. per<br>sq. inch | Static Pressure<br>16" Water<br>9.25 ozs. per<br>sq. inch |      |
|--------|------------------------|------------------------|---|---|---|---|---|---|---|------|
| 840    | 10500                  | 11.8                   | 4.210   | 19  |   |   |   |   |   |      |
| 880    | 11000                  | 12.9                   | 15.400  | 45  | 4.170   | 21.5  |   |   |   |      |
| 925    | 11500                  | 14.2                   | 21.100  | 76  | 13.900  | 42.5  | 4.750   | 25  |   |      |
| 960    | 12000                  | 15.4                   | 27.800  | 96  | 21.400  | 84  | 13.000  | 47  |   |      |
| 1000   | 12500                  | 16.7                   | 31.300  | 120   | 28.600  | 105   | 25.400  | 94  | 4.950   | 28   |
| 1040   | 13000                  | 18.1                   | 34.400  | 145   | 32.200  | 135   | 29.300  | 120   | 2.640   | 26.0 |
| 1080   | 13500                  | 19.5                   | 37.500  | 170   | 35.200  | 160   | 33.000  | 150   | 5.500   | 32.5 |
| 1120   | 14000                  | 21.0                   | 40.100  | 200   | 38.500  | 190   | 36.200  | 175   | 18.300  | 74   |
| 1160   | 14500                  | 22.6                   | 43.200  | 230   | 41.500  | 220   | 39.500  | 210   | 27.500  | 120  |
| 1200   | 15000                  | 24.1                   | 46.200  | 265   | 44.300  | 250   | 42.500  | 240   | 31.600  | 150  |
|        |                        |                        |   |   |   |   |   |   | 33.900  | 165  |
|        |                        |                        |   |   |   |   |   |   | 36.300  | 200  |

Single  
Inlet

# No. 70 Slow Speed Low Power Planing Mill Exhauster Design 6

Single  
Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M. H. P. Static Pressure 1" Water .578 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1½" Water .867 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 2" Water 1.16 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 2½" Water 1.46 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 3" Water 1.73 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 3½" Water 2.02 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 4" Water 2.31 ozs. per sq. inch |
|--------|------------------|------------------|---|--|---|--|---|--|---|
| 245    | 3600             | 1.39             | 9,860 3.05  |  |   |  |   |  |   |
| 245    | 3800             | 1.55             | 12,200 4.30   |  |   |  |   |  |   |
| 275    | 4000             | 1.71             | 14,400 5.5  | 1,690 1.35   |   |  |   |  |   |
| 287    | 4200             | 1.88             | 15,700 6.9  | 3,980 2.05   |   |  |   |  |   |
| 300    | 1400             | 2.07             | 17,400 8.5  | 12,000 5.5   |   |  |   |  |   |
| 315    | 4600             | 2.26             | 19,000 10.0   | 14,500 7.4   | 1,750 1.95  |  |   |  |   |
| 327    | 4800             | 2.47             | 20,500 12.0   | 16,300 9.2   | 3,720 2.8   |  |   |  |   |
| 340    | 5000             | 2.68             | 21,900 14.0   | 18,100 11.5  | 12,700 7.6  |  |   |  |   |
| 360    | 5250             | 2.95             | 23,700 17.0   | 20,200 14.0  | 16,000 10.5   | 2,910 3.25   |   |  |   |
| 375    | 5500             | 3.24             | 25,300 20.0   | 22,100 17.0  | 18,500 13.5   | 10,800 7.9   |   |  |   |
| 390    | 5750             | 3.54             | 27,100 23.5   | 24,100 20.5  | 20,700 17.0   | 16,400 13.0  | 318 4.25  |  |   |
| 410    | 6000             | 3.85             | 28,800 27   | 25,900 24  | 23,200 21.0   | 19,200 16.5  | 8,610 7.9   | 1,680 4.2  |   |
| 425    | 6250             | 4.18             | 30,500 31   | 27,700 28  | 24,900 21.5   | 21,500 21  | 17,400 16.5   | 3,800 5.7  |   |
| 445    | 6500             | 4.52             |   | 29,100 32  | 26,700 29.0   | 23,700 25  | 20,300 21.0   | 12,000 15  | 2,460 5.6   |
| 460    | 6750             | 4.81             |   | 31,200 37  | 28,500 33.0   | 26,100 29  | 22,500 21.5   | 18,400 20  | 4,330 7.2   |
| 480    | 7000             | 5.24             |   |  | 30,600 38.5   | 27,900 35  | 24,900 30.0   | 21,900 25  | 15,700 18   |
| 510    | 7500             | 6.02             |   |  | 31,000 49   |  |   |  |   |
| 545    | 8000             | 6.85             |   |  |   | 31,700 45  | 29,100 41.0   | 26,900 37  | 23,500 30   |
| 580    | 8500             | 7.74             |   |  |   | 35,300 58  | 33,100 51.0   | 30,700 49  | 28,000 41   |
| 615    | 9000             | 8.67             |   |  |   | 39,000 74  | 36,700 68.0   | 34,000 63  | 32,300 60   |
| 650    | 9500             | 9.66             |   |  |   |  | 40,300 84.0   | 38,400 80  | 36,200 74   |
| 680    | 10000            | 10.7             |   |  |   |  | 43,800 102  | 41,000 96  | 40,100 92   |
| 720    | 10500            | 11.8             |   |  |   |  |   | 45,500 120   | 43,800 115  |
| 750    | 11000            | 12.9             |   |  |   |  |   | 49,000 140   | 47,400 135  |
|        |                  |                  |   |  |   |  |   |  | 50,700 160  |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 4½" Water 2.6 ozs. per sq. inch                     | Static Pressure 5" Water 2.89 ozs. per sq. inch                      | Static Pressure 5½" Water 3.18 ozs. per sq. inch                    | Static Pressure 6" Water 3.47 ozs. per sq. inch                      | Static Pressure 7" Water 4.05 ozs. per sq. inch                     | Static Pressure 8" Water 4.63 ozs. per sq. inch                      | Static Pressure 9" Water 5.2 ozs. per sq. inch                      |
| 510    | 7500             | 6.02             | 18,900 25   | 4,830 9.9  | 1,990 8.35  |  |   |  |   |
| 545    | 8000             | 6.85             | 25,200 39   | 21,600 33  | 6,930 13.5  | 3,330 10.5   |   |  |   |
| 580    | 8500             | 7.74             | 30,100 54   | 27,400 48  | 23,500 40   | 15,700 28  |   |  |   |
| 615    | 9000             | 8.67             | 34,300 70   | 32,100 64  | 29,700 58   | 27,000 54  | 7,330 20  |  |   |
| 650    | 9500             | 9.66             | 38,400 88   | 36,400 82  | 34,200 78   | 32,100 72  | 26,100 58   | 6,310 20.5   |   |
| 680    | 10000            | 10.7             | 42,250 110  | 40,300 105   | 38,300 98   | 36,400 92  | 32,000 78   | 25,800 62  | 6,380 23.5  |
| 720    | 10500            | 11.8             | 45,800 130  | 44,300 125   | 42,300 120  | 40,600 115   | 36,600 100  | 32,300 86  | 24,100 64   |
| 750    | 11000            | 12.9             | 49,100 155  | 47,700 150   | 46,400 145  | 44,500 135   | 40,800 125  | 37,000 110   | 32,500 94   |
| 780    | 11500            | 14.2             | 52,700 180  | 51,800 175   | 50,000 170  | 48,200 165   | 45,000 150  | 41,600 135   | 37,900 120  |
| 820    | 12000            | 15.4             |   | 55,100 205   | 53,500 200  | 51,800 195   | 48,700 180  | 45,700 165   | 42,300 150  |
| 850    | 12500            | 16.7             |   | 58,300 235   | 56,900 230  | 55,500 220   | 52,600 210  | 50,000 195   | 46,400 180  |
| 890    | 13000            | 18.1             |   |  | 60,700 265  | 59,000 260   | 56,300 240  | 53,500 230   | 50,800 215  |
| 920    | 13500            | 19.5             |   |  |   | 62,400 290   | 60,100 280  | 57,400 265   | 54,300 250  |
| 960    | 14000            | 21.0             |   |  |   |  | 63,500 325  | 61,300 310   | 58,400 290  |
| 990    | 14500            | 22.6             |   |  |   |  |   | 65,000 355   | 62,500 335  |
| 1025   | 15000            | 24.1             |   |  |   |  |   | 68,300 395   | 65,600 380  |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 10" Water 5.78 ozs. per sq. inch                    | Static Pressure 11" Water 6.36 ozs. per sq. inch                     | Static Pressure 12" Water 6.94 ozs. per sq. inch                    | Static Pressure 13" Water 7.51 ozs. per sq. inch                     | Static Pressure 14" Water 8.09 ozs. per sq. inch                    | Static Pressure 15" Water 8.67 ozs. per sq. inch                     | Static Pressure 0" Water 0.00 ozs. per sq. inch                     |
| 720    | 10500            | 11.8             | 5,810 25  |  |   |  |   |  |   |
| 750    | 11000            | 12.9             | 21,300 62   | 5,750 29.5   |   |  |   |  |   |
| 780    | 11500            | 14.2             | 33,200 105  | 19,200 62  | 6,550 35  |  |   |  |   |
| 820    | 12000            | 15.4             | 38,200 135  | 33,700 115   | 18,000 66   | 6,830 39   | 3,640 35  |  |   |
| 850    | 12500            | 16.7             | 43,100 165  | 39,300 150   | 35,000 130  | 18,700 74  | 7,580 45  | 4,260 39   |   |
| 890    | 13000            | 18.1             | 47,500 200  | 44,300 185   | 40,000 165  | 36,400 145   | 25,100 105  | 8,400 52   |   |
| 920    | 13500            | 19.5             | 51,700 235  | 49,000 220   | 45,500 205  | 42,000 185   | 37,800 165  | 28,900 125   |   |
| 960    | 14000            | 21.0             | 55,700 280  | 53,000 260   | 50,000 240  | 46,800 225   | 43,500 205  | 39,200 185   |   |
| 990    | 14500            | 22.6             | 59,600 320  | 57,200 305   | 54,400 285  | 51,300 270   | 48,500 250  | 45,000 230   |   |
| 1020   | 15000            | 24.1             | 63,700 365  | 61,000 345   | 58,600 330  | 55,700 310   | 53,200 295  | 50,000 275   |   |



Single  
Inlet

# No. 90 Slow Speed Low Power Planing Mill Exhauster Design 6

Single  
Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M. H. P. Static Pressure 1" Water .578 oza. per sq. inch | Volume C.F.M. H. P. Static Pressure 1½" Water 8.67 oza. per sq. inch | Volume C.F.M. H. P. Static Pressure 2" Water 1.16 oza. per sq. inch | Volume C.F.M. H. P. Static Pressure 2½" Water 1.45 oza. per sq. inch | Volume C.F.M. H. P. Static Pressure 3" Water 1.73 oza. per sq. inch | Volume C.F.M. H. P. Static Pressure 3½" Water 2.02 oza. per sq. inch | Volume C.F.M. H. P. Static Pressure 4" Water 2.31 oza. per sq. inch |
|--------|------------------|------------------|---|--|---|--|---|--|---|
| 191    | 3600             | 1.39             | 16,400 5.1  |  |   |  |   |  |   |
| 201    | 3800             | 1.55             | 20,300 7.1  |  |   |  |   |  |   |
| 212    | 4000             | 1.71             | 23,300 9.2  | 2,810 2.2  |   |  |   |  |   |
| 223    | 4200             | 1.88             | 26,200 11.5   | 6,620 3.5  |   |  |   |  |   |
| 233    | 4400             | 2.07             | 29,000 14.0   | 20,000 9.2   |   |  |   |  |   |
| 244    | 4600             | 2.26             | 31,600 17.0   | 24,000 12.5  | 2,900 3.25  |  |   |  |   |
| 254    | 4800             | 2.47             | 34,100 20   | 27,100 15.5  | 6,180 4.65  |  |   |  |   |
| 265    | 5000             | 2.68             | 36,500 24   | 30,100 19  | 21,000 12   |  |   |  |   |
| 280    | 5250             | 2.95             | 39,500 28   | 33,500 23  | 26,700 18   | 4,880 5.4  |   |  |   |
| 290    | 5500             | 3.24             | 42,200 33   | 34,700 28  | 30,700 23   | 18,000 13.0  |   |  |   |
| 305    | 5750             | 3.54             | 45,100 38   | 36,100 34  | 34,500 28   | 27,100 21.5  | 5,300 7.1   |  |   |
| 320    | 6000             | 3.85             | 48,000 45   | 43,200 40  | 38,600 35   | 32,000 28  | 14,100 13   | 2,800 7.0  |   |
| 330    | 6250             | 4.18             | 50,800 52   | 46,200 46  | 41,400 41   | 35,000 35  | 29,000 27   | 6,430 9.5  |   |
| 345    | 6500             | 4.52             |   | 49,000 53  | 44,500 47   | 39,400 42  | 33,800 35   | 20,000 25  | 4,100 9.3   |
| 360    | 6750             | 4.81             |   | 51,800 60  | 47,500 54   | 43,500 49  | 37,400 41   | 30,700 33  | 7,200 12  |
| 370    | 7000             | 5.24             |   |  | 51,000 61   | 46,500 58  | 41,100 50   | 36,400 42  | 26,100 30   |
| 400    | 7500             | 6.02             |   |  | 56,600 82   | 52,800 76  | 48,500 68   | 44,700 60  | 39,000 50   |
| 425    | 8000             | 6.85             |   |  |   | 58,800 96  | 55,000 90   | 51,100 83  | 46,700 74   |
| 450    | 8500             | 7.74             |   |  |   | 65,000 120   | 60,500 115  | 57,600 105   | 53,700 98   |
| 480    | 9000             | 8.67             |   |  |   |  | 67,200 140  | 61,000 130   | 60,300 125  |
| 505    | 9500             | 9.66             |   |  |   |  | 73,000 170  | 70,000 160   | 67,000 155  |
| 530    | 10000            | 10.7             |   |  |   |  |   | 75,700 195   | 73,000 190  |
| 555    | 10500            | 11.8             |   |  |   |  |   | 81,500 230   | 79,000 225  |
| 580    | 11000            | 12.9             |   |  |   |  |   |  | 84,200 265  |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 4½" Water 2.6 oza. per sq. inch                     | Static Pressure 5" Water 2.89 oza. per sq. inch                      | Static Pressure 5½" Water 3.18 oza. per sq. inch                    | Static Pressure 6" Water 3.47 oza. per sq. inch                      | Static Pressure 7" Water 4.05 oza. per sq. inch                     | Static Pressure 8" Water 4.63 oza. per sq. inch                      | Static Pressure 9" Water 5.2 oza. per sq. inch                      |
| 400    | 7500             | 6.02             | 31,420 42   | 8,050 16.5   | 3,330 14.0  |  |   |  |   |
| 425    | 8000             | 6.85             | 12,000 66   | 35,800 54  | 11,500 22.5   | 5,550 17.5   |   |  |   |
| 450    | 8500             | 7.74             | 50,200 90   | 45,600 80  | 39,100 66   | 26,200 46  |   |  |   |
| 480    | 9000             | 8.67             | 57,100 116  | 53,400 105   | 49,600 98   | 41,800 90  | 12,200 33   |  |   |
| 505    | 9500             | 9.66             | 63,900 150  | 60,600 140   | 57,000 130  | 53,400 120   | 43,400 96   | 10,500 34  |   |
| 530    | 10000            | 10.7             | 70,300 185  | 67,200 175   | 63,700 160  | 60,700 150   | 53,300 130  | 43,000 105   | 10,600 39   |
| 555    | 10500            | 11.8             | 76,300 215  | 73,800 210   | 70,300 195  | 67,600 190   | 61,000 165  | 53,700 140   | 40,200 105  |
| 580    | 11000            | 12.9             | 82,300 255  | 80,000 250   | 77,100 240  | 74,000 230   | 68,000 205  | 61,500 180   | 54,200 155  |
| 610    | 11500            | 14.2             | 87,800 300  | 85,700 290   | 83,000 285  | 80,200 270   | 74,800 250  | 69,300 225   | 62,000 200  |
| 640    | 12000            | 15.4             |   | 91,600 340   | 89,000 330  | 86,400 320   | 81,100 300  | 76,000 275   | 70,400 250  |
| 660    | 12500            | 16.7             |   | 97,000 390   | 94,700 380  | 92,400 370   | 87,000 345  | 82,900 330   | 77,100 300  |
| 690    | 13000            | 18.1             |   |  | 101,000 440   | 98,000 430   | 93,700 405  | 89,000 380   | 84,600 360  |
| 720    | 13500            | 19.5             |   |  |   | 104,000 485  | 100,000 465   | 95,400 445   | 90,400 415  |
| 740    | 14000            | 21.0             |   |  |   |  | 106,000 535   | 102,000 515  | 97,200 485  |
| 770    | 14500            | 22.6             |   |  |   |  |   | 108,000 585  | 104,000 560   |
| 795    | 15000            | 24.1             |   |  |   |  |   | 114,000 655  | 109,000 635   |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 10" Water 5.78 oza. per sq. inch                    | Static Pressure 11" Water 6.38 oza. per sq. inch                     | Static Pressure 12" Water 6.94 oza. per sq. inch                    | Static Pressure 13" Water 7.51 oza. per sq. inch                     | Static Pressure 14" Water 8.09 oza. per sq. inch                    | Static Pressure 15" Water 8.67 oza. per sq. inch                     | Static Pressure 16" Water 9.26 oza. per sq. inch                    |
| 555    | 10500            | 11.8             | 9,670 43  |  |   |  |   |  |   |
| 580    | 11000            | 12.9             | 35,400 105  | 9,580 49   |   |  |   |  |   |
| 610    | 11500            | 14.2             | 55,200 175  | 31,900 105   | 10,900 58   |  |   |  |   |
| 640    | 12000            | 15.4             | 63,700 220  | 56,100 195   | 30,000 110  | 11,350 65  | 6,060 58  |  |   |
| 660    | 12500            | 16.7             | 71,800 275  | 65,500 245   | 58,500 215  | 51,100 125   | 42,600 75   | 7,100 66   |   |
| 690    | 13000            | 18.1             | 78,800 330  | 73,800 305   | 67,300 275  | 60,600 245   | 41,800 170  | 13,900 86  |   |
| 720    | 13500            | 19.5             | 86,000 395  | 80,900 365   | 75,700 335  | 70,000 305   | 63,000 275  | 48,200 210   |   |
| 740    | 14000            | 21.0             | 92,800 460  | 88,400 430   | 83,000 400  | 77,800 370   | 72,500 345  | 65,400 305   |   |
| 770    | 14500            | 22.6             | 99,300 530  | 95,300 505   | 90,600 475  | 85,500 450   | 80,800 420  | 75,000 380   |   |
| 795    | 15000            | 24.1             | 106,000 610   | 101,500 575  | 97,400 550  | 92,800 520   | 88,500 495  | 83,300 460   |   |

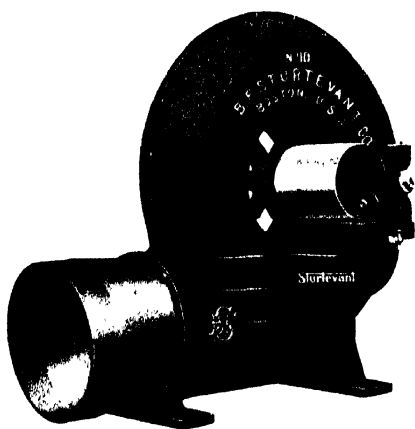


# **MONOGRAM FANS**

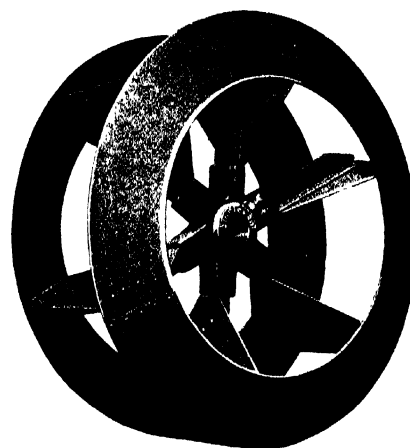
## **Design 2**

**Dimensions, Capacities, Horse Powers**

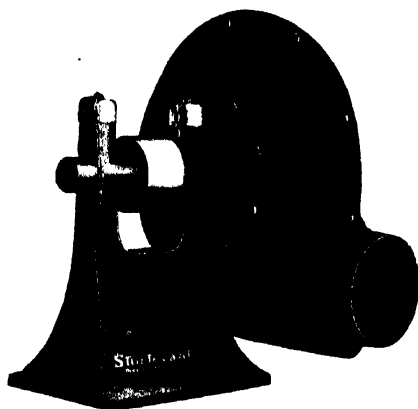
## Monogram Fan—Design 2



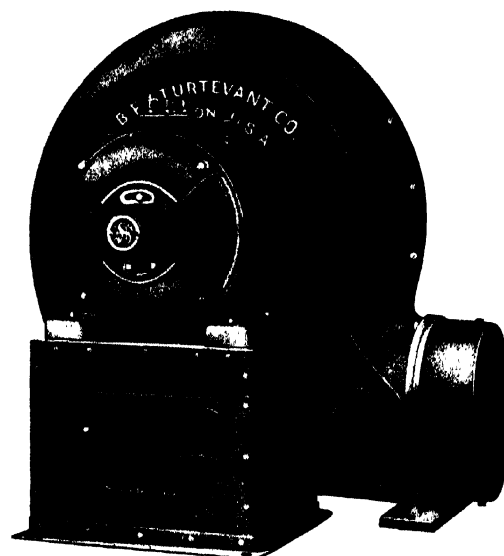
Monogram Blower, Right Hand  
Bottom Horizontal Discharge



Monogram Fan Wheel



Pressed Steel Monogram Fan, Design 2 Single Inlet  
Left Hand Bottom Horizontal Discharge



Electric Monogram Exhauster, Left Hand  
Bottom Horizontal Discharge

# MONOGRAM FAN—DESIGN 2

## SPECIFICATIONS

**General.** There shall be furnished a No. .... Design No. 2 Sturtevant Monogram Fan. It shall be made (single or double) ... inlet, single width (right or left) ... hand, ... discharge and have full housing. The outlet shall be ... inches diameter, and the inlet ... inches diameter. The total height of the fan housing should be ... inches, the width and direction of shaft ... inches, and the length transverse to shaft ... inches. The fan shall have a capacity of ... cubic feet per minute against a resistance of ... inches water gauge either at the inlet or at the outlet (or at both taking the sum), and shall operate at approximately ... R. P. M., requiring approximately ... B. H. P.

**Housing.** The housing shall be of spiral form constructed of cast iron, and made in two halves bolted together. On the double inlet fans, outlets shall be fitted with an expanding outlet. Exhausters shall have a collar cast with the casing to facilitate connection to suction pipe.

**Wheels.** Blades of wheel shall be made of refined steel plate, flanged and riveted to the side plates, which are also to be made of refined steel plate in one piece carefully cut and pressed to shape. Hub shall be made in size No. 0000 of cast composition; sizes No. 00 to No. 5 inclusive of malleable iron; sizes No. 6 to No. 10 inclusive of cast iron having cast integral with it and radiating from it steel arms of T-sections. Hub shall be accurately bored and fitted to the shaft. At the outer ends of the arms, steel blades are to be securely riveted. Wheel shall be carefully balanced.

**Bearings.** The bearings should be of the chair box type provided with suitable means for supplying continuous lubrication. They shall be of large diameter and built extra long to give ample bearing support and shall be lined with best quality babbitt containing upwards of 85 per cent. tin, bored and scraped to exact size.

**Shaft.** The shaft shall be made from a steel forging, and after the keyways are cut, it shall be accurately turned and ground.



## **Monogram Fan and Exhauster—Design 2**

### **EXPLANATION OF TABLES**

The general explanation of tables found in the front of this book applies to these tables.

Capacities of single inlet fans and of double inlet fans smaller than No. 2 are measured as described in the general explanation.

Capacities of double inlet fans in sizes 2 to 10 are measured in a pipe of the same area as the large end of the expanded outlet.

## Monogram Fan — Design 1

### APPROXIMATE WEIGHTS

| Size | Blower | Exhauster | Pressed Steel | Blower on Adjustable Bed | Blower on Adjustable Bed with Combined Countershaft |
|------|--------|-----------|---------------|--------------------------|---|
| 0000 | 15     | 20        | 13            |                          |   |
| 00   | 30     | 40        | 24            |                          |   |
| 0    | 52     | 58        | 37            |                          |   |
| 1    | 80     | 90        | 59            |                          |   |
| 2    | 120    | 123       | 88            |                          |   |
| 3    | 190    | 200       |               |                          |   |
| 4    | 265    | 300       |               | 335                      | 675   |
| 5    | 380    | 400       |               | 485                      | 1075  |
| 6    | 525    | 590       |               | 720                      | 1525  |
| 7    | 925    | 1030      |               | 1050                     | 2250  |
| 8    | 1340   | 1555      |               | 1700                     | 3600  |
| 9    | 1975   | 2100      |               | 2200                     | 4350  |
| 10   | 2550   | 2700      |               | 3300                     | 6400  |

Single  
Inlet

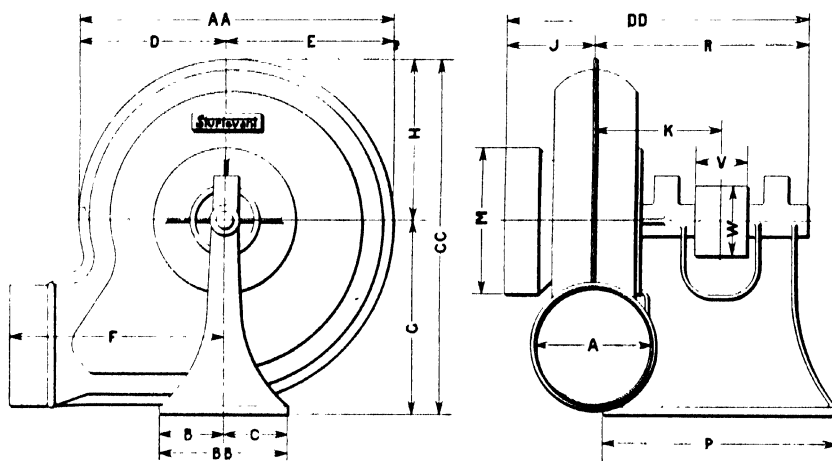
# Monogram Pressed Steel Exhauster—Design 2

Single  
Width

Full Housing

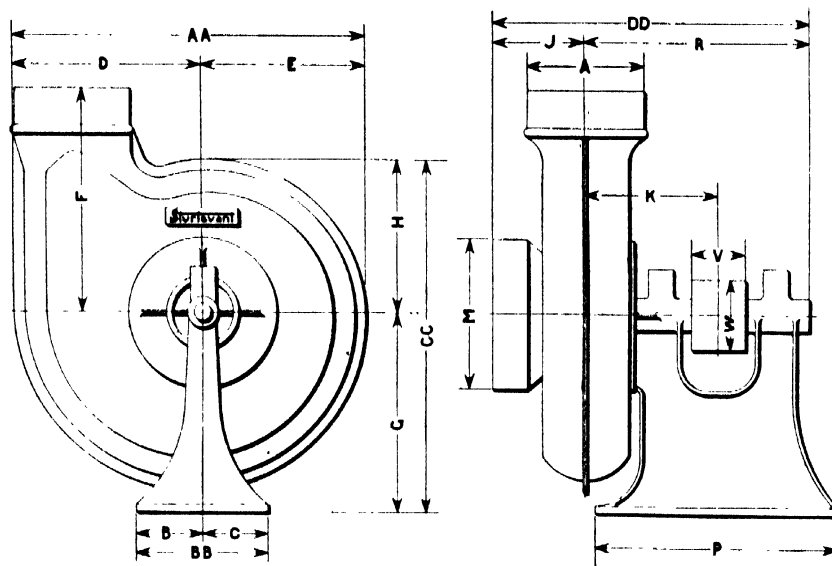
Bottom Horizontal Discharge

Overhung Wheel



| Fan Size | A     | B | C | D     | E      | F      | G     | H     | J     | K     | M     | P  | R      | V     | W     | AA     | BB | CC    | DD    | Wheel Dia. | Shaft Dia. | Ancho Bolts Hange |
|----------|-------|---|---|-------|--------|--------|-------|-------|-------|-------|-------|----|--------|-------|-------|--------|----|-------|-------|------------|------------|-------------------|
| 1/2      | 2 1/4 | 2 | 2 | 4 1/4 | 1 1/2  | 5 1/4  | 5 1/4 | 4 1/4 | 2 1/8 | 3 1/4 | 3 1/4 | 6  | 6 1/8  | 1 1/4 | 1 1/4 | 8 1/4  | 4  | 9 1/4 | 8 1/4 | 6          | 1          | 1                 |
| 2        | 7 1/4 | 4 | 4 | 9 1/8 | 10 1/4 | 13 1/4 | 12    | 9 1/8 | 5 1/2 | 8     | 9     | 15 | 13 1/8 | 4 1/2 | 3 1/4 | 19 1/8 | 8  | 22    | 19    | 12 1/4     | 1          | 1                 |

## Up Blast Discharge



| Fan Size | A     | B | C | D      | E     | F      | G     | H     | J     | K     | M     | P  | R      | V     | W      | AA | BB | CC     | DD     | Wheel Dia. | Shaft Dia. | Ancho Bolts Hange |
|----------|-------|---|---|--------|-------|--------|-------|-------|-------|-------|-------|----|--------|-------|--------|----|----|--------|--------|------------|------------|-------------------|
| 1/2      | 2 1/4 | 2 | 2 | 4 1/4  | 4 1/4 | 5 1/4  | 5 1/4 | 4 1/4 | 2 1/8 | 3 1/4 | 3 1/4 | 6  | 6 1/8  | 1 1/4 | 8 1/4  | 9  | 4  | 9 1/4  | 8 1/4  | 6          | 1          | 1                 |
| 2        | 7 1/4 | 4 | 4 | 11 1/8 | 9 1/8 | 13 1/4 | 12    | 9 1/8 | 5 1/2 | 8     | 9     | 15 | 13 1/8 | 4 1/2 | 19 1/8 | 21 | 8  | 21 1/8 | 19 1/8 | 12 1/4     | 1          | 1                 |

Single  
Inlet

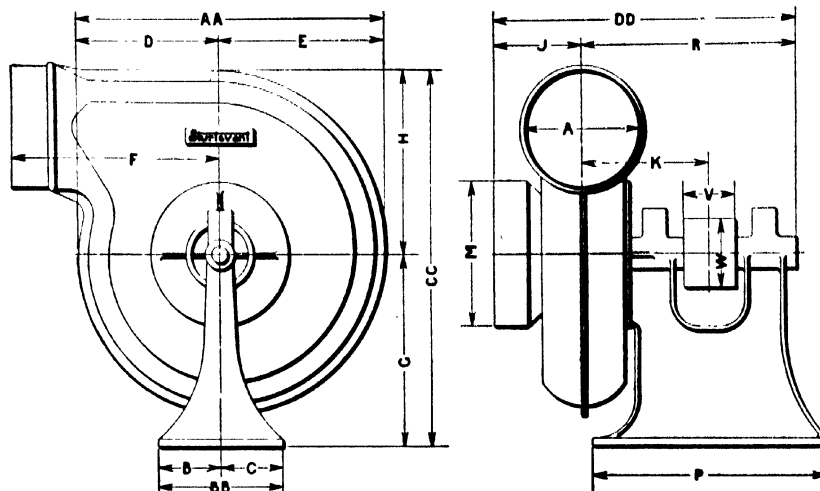
# Monogram Pressed Steel Exhauster — Design 2

Single  
Width

Full Housing

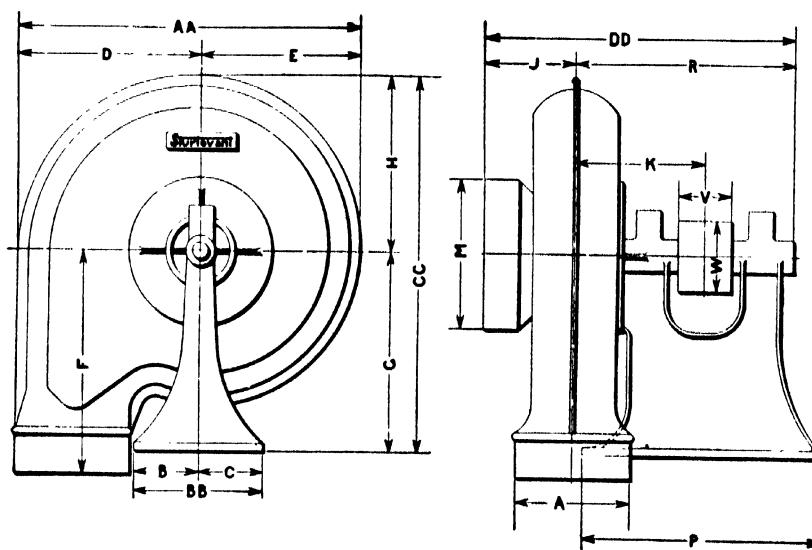
Top Horizontal Discharge

Overhung Wheel



| Fan Size | A     | B | C | D      | E       | F      | G     | H       | J     | K     | M     | P  | R      | V     | W     | AA     | BB | CC      | DD     | Wheel Diameter | Shaft Dia. | An. Bolts Hanger |
|----------|-------|---|---|--------|---------|--------|-------|---------|-------|-------|-------|----|--------|-------|-------|--------|----|---------|--------|----------------|------------|------------------|
| 4 0      | 2 1/2 | 2 | 2 | 4 1/8  | 4 1/8   | 5 1/8  | 5 1/8 | 4 1/8   | 2 3/8 | 3 1/8 | 3 1/8 | 6  | 6 3/8  | 1 1/8 | 1 1/8 | 8 1/8  | 4  | 10      | 8 1/8  | 6              | 1          | 1/2              |
| 2        | 2 1/2 | 4 | 4 | 9 3/16 | 10 1/16 | 13 1/2 | 12    | 11 1/16 | 5 1/8 | 8     | 9     | 15 | 13 1/8 | 4 1/8 | 3 1/8 | 19 1/8 | 8  | 23 3/16 | 19 1/8 | 12 1/2         | 1          | 1/2              |

## Down Blast Discharge



| Fan Size | A     | B | C | D       | E     | F      | G     | H       | J     | K     | M     | P  | R      | V     | W     | AA     | BB | CC     | DD     | Wheel Diameter | Shaft Dia. | An. Bolts Hanger |
|----------|-------|---|---|---------|-------|--------|-------|---------|-------|-------|-------|----|--------|-------|-------|--------|----|--------|--------|----------------|------------|------------------|
| 4/0      | 2 1/2 | 2 | 2 | 4 1/8   | 4 1/8 | 5 1/8  | 5 1/8 | 4 1/8   | 2 3/8 | 3 1/8 | 3 1/8 | 6  | 6 3/8  | 1 1/8 | 1 1/8 | 8 1/8  | 4  | 9 1/8  | 8 1/8  | 6              | 1          | 1/2              |
| 2        | 2 1/2 | 4 | 4 | 11 7/16 | 9 1/8 | 13 1/2 | 12    | 10 1/16 | 5 1/8 | 8     | 9     | 15 | 13 1/8 | 4 1/8 | 3 1/8 | 21 1/8 | 8  | 22 1/4 | 19 1/8 | 12 1/2         | 1          | 1/2              |

Single Inlet

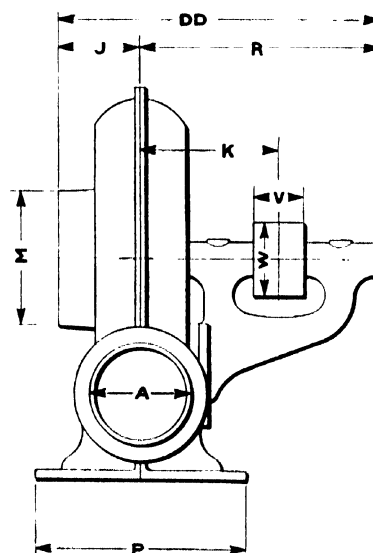
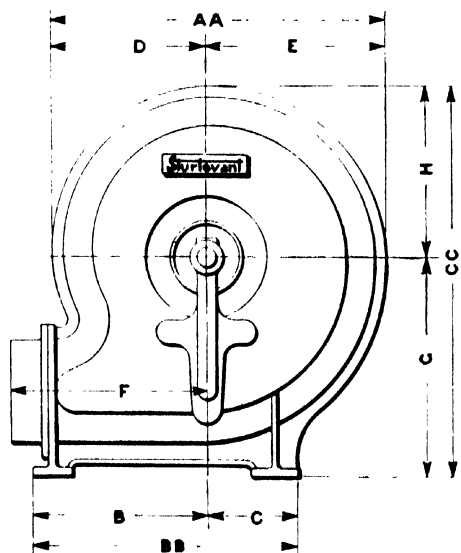
## Monogram Fan—Design 2

Single Width

Full Housing

Bottom Horizontal Discharge

Overhung Wheel



| Fan Size | A   | B   | C   | D   | E   | F   | G   | H   | J   | K   | M   | P   | R   | V   | W   | AA  | BB  | CC  | DD  | Wheel Diameter | Shaft Diameter | Anchor Bolts |
|----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------------|----------------|--------------|
| 0000     | 2½  | 4½  | 2½  | 4½  | 4½  | 5½  | 5½  | 4½  | 2   | 3½  | 3½  | 5½  | 6½  | 1½  | 1½  | 8½  | 7   | 9½  | 8½  | 6              | ½              | ½            |
| 00       | 4½  | 7   | 3   | 6½  | 6½  | 8½  | 7½  | 6½  | 3   | 4½  | 4½  | 6½  | 8½  | 1½  | 2½  | 12½ | 10  | 14½ | 11½ | 8½             | ¾              | ¾            |
| 0        | 4½  | 8½  | 3½  | 7½  | 7½  | 10½ | 9   | 7½  | 3½  | 5½  | 5½  | 7½  | 10½ | 2½  | 3   | 15  | 12½ | 16½ | 11½ | 9½             | ¾              | ¾            |
| 1        | 5½  | 9   | 4½  | 7½  | 9   | 11  | 10½ | 8½  | 4½  | 7   | 6½  | 9   | 12  | 2½  | 3½  | 16½ | 13½ | 19½ | 16½ | 10½            | ¾              | ¾            |
| 2        | 7½  | 11  | 5½  | 9½  | 10½ | 13  | 12½ | 10  | 5½  | 8   | 7½  | 10  | 13½ | 3½  | 4½  | 20  | 16½ | 22½ | 19½ | 12½            | 1              | 1            |
| 3        | 9   | 13  | 7   | 10½ | 12½ | 15½ | 14½ | 11½ | 6½  | 9½  | 9   | 12  | 16½ | 4   | 5½  | 23½ | 20  | 26½ | 22½ | 16             | 1½             | 1½           |
| 4        | 10½ | 15½ | 7½  | 12½ | 15  | 17½ | 17½ | 13½ | 7   | 10½ | 10½ | 14  | 18½ | 4½  | 6   | 27½ | 22½ | 31  | 25½ | 19             | 1½             | 1½           |
| 5        | 12½ | 17½ | 9½  | 14½ | 17½ | 20½ | 20  | 16½ | 8½  | 12½ | 12½ | 16½ | 22  | 5½  | 6½  | 32½ | 27  | 36½ | 30½ | 21½            | 1½             | 1½           |
| 6        | 14½ | 20  | 11  | 17  | 20½ | 22½ | 23  | 18½ | 9½  | 14  | 15  | 19  | 23½ | 6½  | 8   | 37½ | 31  | 41½ | 32½ | 26             | 1½             | 1½           |
| 7        | 16½ | 23½ | 12½ | 20  | 24  | 26  | 28  | 22  | 10½ | 16½ | 16½ | 21  | 29½ | 7½  | 8½  | 44  | 36½ | 50  | 39½ | 30½            | 1½             | 1½           |
| 8        | 19  | 26½ | 13½ | 23½ | 27½ | 29  | 31½ | 25½ | 12½ | 19½ | 18½ | 27½ | 33  | 8½  | 10½ | 50½ | 40½ | 56½ | 45½ | 36             | 2½             | 2½           |
| 9        | 21½ | 30½ | 16½ | 26  | 31½ | 32½ | 37  | 28½ | 15  | 22½ | 21½ | 31½ | 38½ | 10½ | 12  | 57½ | 46½ | 65½ | 53½ | 40             | 2½             | 2½           |
| 10       | 24½ | 34½ | 21½ | 31½ | 37½ | 37½ | 43  | 34½ | 16½ | 24½ | 24½ | 38½ | 41  | 11½ | 13½ | 69  | 56½ | 77½ | 57½ | 48             | 2½             | 1            |

Note— The No. 10 Monogram Exhauster has Cast-Iron Hanger Extension to the Floor.

Single Inlet

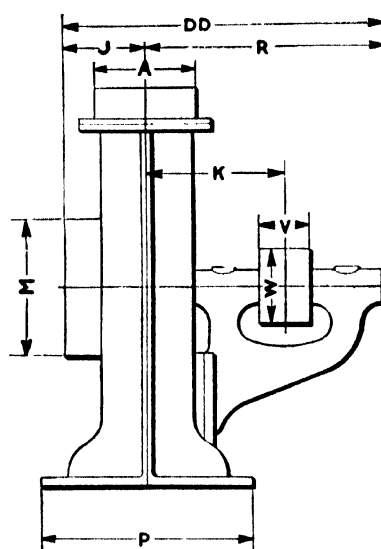
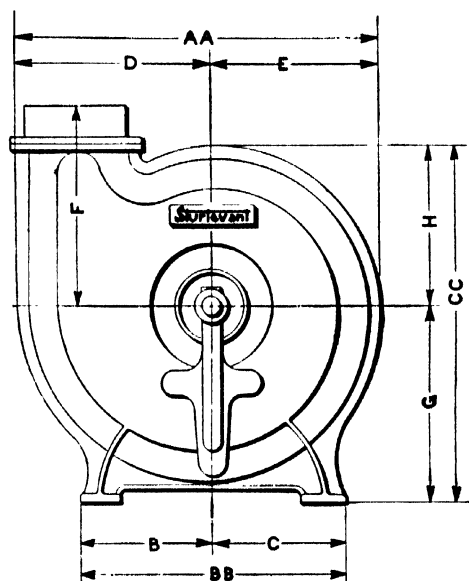
## Monogram Fan — Design 2

Single Width

Full Housing

Up Blast Discharge

Overhung Wheel



| Fan Size | A      | B      | C      | D      | E      | F      | G      | H      | J      | K      | M      | P      | R      | V      | W      | AA     | BB     | CC     | DD     | Wheel Diameter | Shaft Diameter | Anchor Bolts |
|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------------|----------------|--------------|
| 0000     | 2 1/2  | 3 1/2  | 2 1/2  | 4 1/2  | 4 1/2  | 5 1/2  | 5 1/2  | 4 1/2  | 2      | 3 1/2  | 3 1/2  | 5 1/2  | 6 1/2  | 1 1/2  | 1 1/2  | 8 1/2  | 6      | 9 1/2  | 8 1/2  | 6              | 1/2            | 1            |
| 00       | 4 1/2  | 4 1/2  | 4 1/2  | 6 1/2  | 6 1/2  | 8 1/2  | 6 1/2  | 6 1/2  | 3      | 4 1/2  | 4 1/2  | 6 1/2  | 8 1/2  | 1 1/2  | 2 1/2  | 13 1/2 | 9 1/2  | 13     | 11 1/2 | 8 1/2          | 1/2            | 1            |
| 0        | 4 1/2  | 5 1/2  | 5 1/2  | 8 1/2  | 7 1/2  | 10 1/2 | 8 1/2  | 7 1/2  | 3 1/2  | 5 1/2  | 5 1/2  | 7 1/2  | 10 1/2 | 2 1/2  | 3      | 15 1/2 | 10 1/2 | 15 1/2 | 14 1/2 | 9 1/2          | 1 1/2          | 1            |
| 1        | 5 1/2  | 6 1/2  | 5 1/2  | 9 1/2  | 8 1/2  | 11 1/2 | 10 1/2 | 7 1/2  | 4 1/2  | 7      | 6 1/2  | 9      | 12 1/2 | 2 1/2  | 3 1/2  | 18     | 12 1/2 | 17 1/2 | 16 1/2 | 10 1/2         | 1              | 1            |
| 2        | 7 1/2  | 7 1/2  | 7 1/2  | 11 1/2 | 10     | 13 1/2 | 12 1/2 | 9 1/2  | 5 1/2  | 8      | 7 1/2  | 10     | 13 1/2 | 3 1/2  | 4 1/2  | 21 1/2 | 14 1/2 | 21 1/2 | 19 1/2 | 12 1/2         | 1              | 1            |
| 3        | 9      | 8 1/2  | 8 1/2  | 13 1/2 | 11 1/2 | 15 1/2 | 15 1/2 | 10 1/2 | 6 1/2  | 9 1/2  | 9      | 12     | 16 1/2 | 4      | 5 1/2  | 25 1/2 | 17     | 26     | 22 1/2 | 16             | 1 1/2          | 1            |
| 4        | 10 1/2 | 10     | 10 1/2 | 16 1/2 | 13 1/2 | 17 1/2 | 17 1/2 | 12 1/2 | 7      | 10 1/2 | 10 1/2 | 14     | 18 1/2 | 4 1/2  | 6      | 30     | 20     | 29 1/2 | 25 1/2 | 19             | 1 1/2          | 1            |
| 5        | 12 1/2 | 12 1/2 | 12 1/2 | 19     | 16 1/2 | 20 1/2 | 20 1/2 | 14 1/2 | 8 1/2  | 12 1/2 | 12 1/2 | 16 1/2 | 22     | 5 1/2  | 6 1/2  | 35 1/2 | 24 1/2 | 35 1/2 | 30 1/2 | 21 1/2         | 1 1/2          | 1            |
| 6        | 14 1/2 | 19     | 12     | 22 1/2 | 18 1/2 | 22 1/2 | 23 1/2 | 17     | 9 1/2  | 14     | 15     | 19     | 23 1/2 | 6 1/2  | 8      | 41     | 31     | 40 1/2 | 32 1/2 | 26             | 1 1/2          | 1            |
| 7        | 16 1/2 | 16     | 16     | 26     | 22     | 26     | 27 1/2 | 20     | 10 1/2 | 16 1/2 | 16 1/2 | 24     | 29 1/2 | 7 1/2  | 8 1/2  | 48     | 32     | 47 1/2 | 39 1/2 | 30 1/2         | 1 1/2          | 1            |
| 8        | 19     | 18     | 18     | 29 1/2 | 25 1/2 | 29     | 30 1/2 | 23 1/2 | 12 1/2 | 19 1/2 | 18 1/2 | 27 1/2 | 33     | 8 1/2  | 10 1/2 | 54 1/2 | 36     | 54     | 45 1/2 | 36             | 2 1/2          | 1            |
| 9        | 21 1/2 | 20 1/2 | 20 1/2 | 31 1/2 | 28 1/2 | 32 1/2 | 35 1/2 | 26     | 15     | 22 1/2 | 21 1/2 | 31 1/2 | 38 1/2 | 10 1/2 | 12     | 63     | 40 1/2 | 61 1/2 | 53 1/2 | 40             | 2 1/2          | 1            |
| 10       | 24 1/2 | 23 1/2 | 23 1/2 | 40 1/2 | 34 1/2 | 37 1/2 | 39 1/2 | 31 1/2 | 16 1/2 | 24 1/2 | 24 1/2 | 56 1/2 | 41     | 11 1/2 | 13 1/2 | 75     | 47     | 71 1/2 | 57 1/2 | 48             | 2 1/2          | 1            |

Note — The No. 10 Monogram Exhauster has Cast-Iron Hanger Extension to the Floor.

Single Inlet

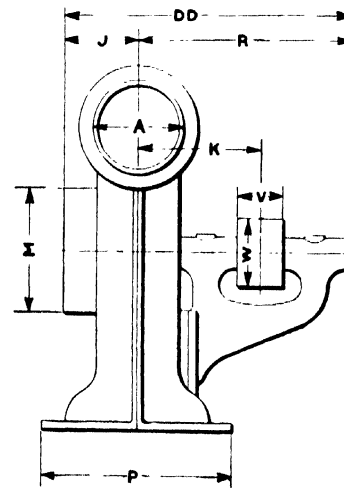
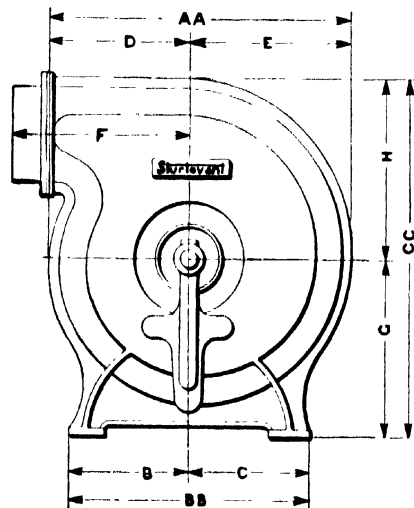
**Monogram Fan — Design 2**

Single Width

Full Housing

Top Horizontal Discharge

Overhung Wheel



| Fan Size | A                | B                | C                | D                | E                | F                | G                | H                | J                | K                | M                | P                | R                | V                | W                | AA               | BB               | CC               | DD               | Wheel Diameter   | Shaft Diameter  | Anchor Bolts    |
|----------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------------|-----------------|
| 0000     | 2 $\frac{1}{2}$  | 2 $\frac{1}{2}$  | 2 $\frac{1}{2}$  | 4 $\frac{1}{2}$  | 4 $\frac{1}{2}$  | 5 $\frac{1}{2}$  | 5                | 5 $\frac{3}{4}$  | 3 $\frac{1}{2}$  | 3 $\frac{3}{4}$  | 5 $\frac{1}{2}$  | 6                | 7 $\frac{1}{2}$  | 11 $\frac{1}{2}$ | 17 $\frac{1}{2}$ | 8 $\frac{1}{2}$  | 5 $\frac{1}{2}$  | 10 $\frac{3}{4}$ | 12 $\frac{1}{2}$ | 6                | 1 $\frac{1}{2}$ | 1 $\frac{1}{2}$ |
| 00       | 4 $\frac{1}{2}$  | 5 $\frac{1}{2}$  | 4 $\frac{1}{2}$  | 6 $\frac{1}{2}$  | 6 $\frac{3}{4}$  | 8 $\frac{1}{2}$  | 6 $\frac{1}{2}$  | 6 $\frac{3}{4}$  | 5 $\frac{1}{2}$  | 3                | 4 $\frac{1}{2}$  | 6 $\frac{1}{2}$  | 7 $\frac{1}{2}$  | 17 $\frac{1}{2}$ | 23 $\frac{1}{2}$ | 12 $\frac{1}{2}$ | 9 $\frac{1}{2}$  | 13 $\frac{1}{2}$ | 12 $\frac{1}{2}$ | 8 $\frac{1}{2}$  | 1 $\frac{1}{2}$ | 1 $\frac{1}{2}$ |
| 0        | 4 $\frac{1}{2}$  | 5 $\frac{1}{2}$  | 5 $\frac{1}{2}$  | 7 $\frac{1}{2}$  | 7 $\frac{3}{4}$  | 10               | 8 $\frac{1}{2}$  | 8 $\frac{1}{2}$  | 5 $\frac{1}{2}$  | 3 $\frac{1}{2}$  | 5 $\frac{1}{2}$  | 7 $\frac{1}{2}$  | 9                | 22 $\frac{1}{2}$ | 3                | 15               | 10 $\frac{1}{2}$ | 17               | 14 $\frac{1}{2}$ | 9 $\frac{1}{2}$  | 1 $\frac{1}{2}$ | 1 $\frac{1}{2}$ |
| 1        | 5 $\frac{1}{2}$  | 7 $\frac{1}{2}$  | 6                | 7 $\frac{1}{2}$  | 9                | 10 $\frac{1}{2}$ | 9                | 9 $\frac{3}{4}$  | 6 $\frac{1}{2}$  | 4 $\frac{1}{2}$  | 6 $\frac{1}{2}$  | 8                | 10               | 22 $\frac{1}{2}$ | 3 $\frac{1}{2}$  | 16 $\frac{1}{2}$ | 13 $\frac{1}{2}$ | 18 $\frac{1}{2}$ | 16 $\frac{1}{2}$ | 10 $\frac{3}{4}$ | 1 $\frac{1}{2}$ | 1 $\frac{1}{2}$ |
| 2        | 7 $\frac{1}{2}$  | 6                | 7                | 9 $\frac{1}{2}$  | 10 $\frac{3}{4}$ | 13 $\frac{1}{2}$ | 10 $\frac{1}{2}$ | 11 $\frac{1}{2}$ | 7 $\frac{3}{4}$  | 5 $\frac{1}{2}$  | 7 $\frac{1}{2}$  | 10 $\frac{3}{4}$ | 11 $\frac{1}{2}$ | 3 $\frac{1}{2}$  | 4 $\frac{1}{2}$  | 20               | 13               | 22               | 18 $\frac{1}{2}$ | 12 $\frac{1}{2}$ | 1               | 1 $\frac{1}{2}$ |
| 3        | 9                | 7 $\frac{3}{4}$  | 8 $\frac{1}{2}$  | 10 $\frac{1}{2}$ | 12 $\frac{3}{4}$ | 15 $\frac{1}{2}$ | 13               | 13 $\frac{1}{2}$ | 8 $\frac{1}{2}$  | 5 $\frac{1}{2}$  | 9                | 12               | 13 $\frac{1}{2}$ | 4                | 5 $\frac{1}{2}$  | 23 $\frac{1}{2}$ | 16               | 26 $\frac{1}{2}$ | 21 $\frac{1}{2}$ | 16               | 1 $\frac{1}{2}$ | 1 $\frac{1}{2}$ |
| 4        | 10 $\frac{1}{2}$ | 11 $\frac{1}{2}$ | 11 $\frac{1}{2}$ | 12 $\frac{1}{2}$ | 15 $\frac{1}{2}$ | 17 $\frac{1}{2}$ | 15 $\frac{1}{2}$ | 16 $\frac{1}{2}$ | 9 $\frac{1}{2}$  | 6 $\frac{1}{2}$  | 10 $\frac{1}{2}$ | 14 $\frac{1}{2}$ | 15 $\frac{1}{2}$ | 4 $\frac{1}{2}$  | 6                | 27 $\frac{1}{2}$ | 22 $\frac{1}{2}$ | 28 $\frac{1}{2}$ | 24 $\frac{1}{2}$ | 19               | 1 $\frac{1}{2}$ | 1 $\frac{1}{2}$ |
| 5        | 12 $\frac{1}{2}$ | 12 $\frac{1}{2}$ | 12 $\frac{1}{2}$ | 14 $\frac{1}{2}$ | 17 $\frac{1}{2}$ | 20 $\frac{1}{2}$ | 18 $\frac{1}{2}$ | 19               | 10 $\frac{1}{2}$ | 8                | 12 $\frac{1}{2}$ | 16 $\frac{1}{2}$ | 17 $\frac{1}{2}$ | 5 $\frac{1}{2}$  | 6 $\frac{1}{2}$  | 35 $\frac{1}{2}$ | 26 $\frac{1}{2}$ | 33 $\frac{1}{2}$ | 28 $\frac{1}{2}$ | 21 $\frac{1}{2}$ | 1 $\frac{1}{2}$ | 1 $\frac{1}{2}$ |
| 6        | 11 $\frac{1}{2}$ | 17 $\frac{1}{2}$ | 13 $\frac{1}{2}$ | 17               | 20 $\frac{1}{2}$ | 22 $\frac{1}{2}$ | 22 $\frac{1}{2}$ | 22 $\frac{1}{2}$ | 11 $\frac{1}{2}$ | 9 $\frac{1}{2}$  | 15               | 19               | 20 $\frac{1}{2}$ | 6 $\frac{1}{2}$  | 8                | 37 $\frac{1}{2}$ | 31               | 41               | 32 $\frac{1}{2}$ | 26               | 1 $\frac{1}{2}$ | 1 $\frac{1}{2}$ |
| 7        | 16 $\frac{1}{2}$ | 16 $\frac{1}{2}$ | 16 $\frac{1}{2}$ | 20               | 24               | 26 $\frac{1}{2}$ | 23 $\frac{1}{2}$ | 26               | 14 $\frac{1}{2}$ | 11 $\frac{1}{2}$ | 16 $\frac{1}{2}$ | 24               | 23 $\frac{1}{2}$ | 7 $\frac{1}{2}$  | 8 $\frac{1}{2}$  | 44               | 33               | 49 $\frac{1}{2}$ | 38 $\frac{1}{2}$ | 30 $\frac{1}{2}$ | 1 $\frac{1}{2}$ | 1 $\frac{1}{2}$ |
| 8        | 18 $\frac{1}{2}$ | 18               | 18               | 23 $\frac{1}{2}$ | 27 $\frac{1}{2}$ | 29 $\frac{1}{2}$ | 28               | 29 $\frac{1}{2}$ | 17 $\frac{1}{2}$ | 13 $\frac{1}{2}$ | 18 $\frac{1}{2}$ | 27 $\frac{1}{2}$ | 28               | 8 $\frac{1}{2}$  | 10 $\frac{1}{2}$ | 50 $\frac{1}{2}$ | 36               | 57 $\frac{1}{2}$ | 45 $\frac{1}{2}$ | 36               | 2 $\frac{3}{8}$ | 2 $\frac{3}{8}$ |
| 9        | 21 $\frac{1}{2}$ | 20 $\frac{1}{2}$ | 20 $\frac{1}{2}$ | 26               | 31 $\frac{1}{2}$ | 33               | 32 $\frac{1}{2}$ | 31 $\frac{1}{2}$ | 19 $\frac{1}{2}$ | 15 $\frac{1}{2}$ | 21 $\frac{1}{2}$ | 32               | 31               | 10 $\frac{1}{2}$ | 12               | 57 $\frac{1}{2}$ | 40 $\frac{1}{2}$ | 66 $\frac{1}{2}$ | 50 $\frac{1}{2}$ | 40               | 2 $\frac{3}{8}$ | 2 $\frac{3}{8}$ |
| 10       | 21 $\frac{1}{2}$ | 23 $\frac{1}{2}$ | 23 $\frac{1}{2}$ | 31 $\frac{1}{2}$ | 37 $\frac{1}{2}$ | 37 $\frac{1}{2}$ | 36               | 36               | 21 $\frac{1}{2}$ | 19 $\frac{1}{2}$ | 21 $\frac{1}{2}$ | 36 $\frac{1}{2}$ | 38 $\frac{1}{2}$ | 11 $\frac{1}{2}$ | 13 $\frac{1}{2}$ | 69               | 47               | 76 $\frac{1}{2}$ | 60 $\frac{1}{2}$ | 48               | 2 $\frac{3}{8}$ | 1               |

Note — The No. 10 Monogram Exhauster has Cast-Iron Hanger Extension to the Floor.

Single Inlet

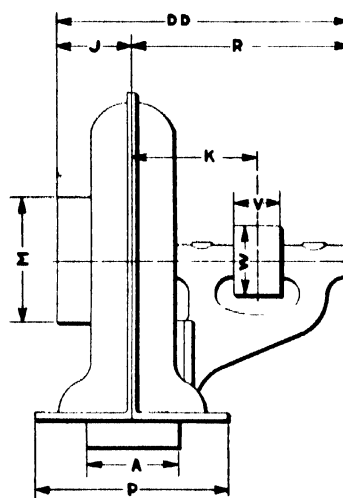
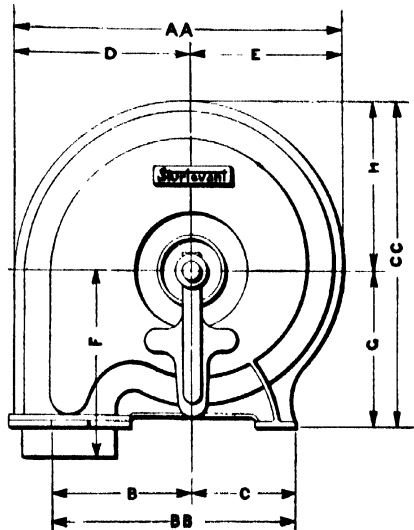
## Monogram Fan – Design 2

Single Width

Full Housing

Down Blast Discharge

Overhung Wheel



| Fan Size | A      | B      | C      | D      | E      | F      | G      | H      | J      | K      | M      | P      | R      | V      | W      | AA     | BB     | CC     | DD     | Wheel Diameter | Shaft Diameter | Anchor Bolts |
|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------------|----------------|--------------|
| 0000     | 2 1/4  | 3 5/8  | 2 1/4  | 4 1/2  | 4 1/2  | 5 1/2  | 4 3/8  | 4 1/4  | 5 1/2  | 3 1/2  | 3 3/8  | 5 1/2  | 6      | 1 1/2  | 1 1/2  | 8 1/2  | 6 3/8  | 8 1/2  | 6 1/2  | 6              | 1/2            | 1 1/4        |
| 00       | 4 1/4  | 5 5/8  | 4 1/4  | 6 3/4  | 6 3/4  | 8 1/4  | 6 3/8  | 6 3/8  | 7 1/2  | 3      | 4 7/8  | 6 1/2  | 7 1/2  | 1 1/2  | 2 1/2  | 13 1/2 | 10     | 13     | 12 1/2 | 8 1/2          | 1/2            | 1 1/4        |
| 0        | 4 1/4  | 6 1/2  | 6      | 8 1/2  | 7 1/2  | 10     | 7 3/4  | 7 1/2  | 5 3/8  | 3 3/4  | 5 1/2  | 7 1/2  | 9      | 2 1/2  | 3      | 15 1/2 | 12     | 15 1/2 | 14 1/2 | 9 1/2          | 1/2            | 1 1/4        |
| 1        | 5 1/2  | 7 3/4  | 6 1/2  | 10 1/2 | 8 1/2  | 10 1/2 | 8      | 9      | 6 1/2  | 4 1/2  | 6 1/2  | 8      | 10     | 3 1/2  | 3 1/2  | 18 1/2 | 14 1/2 | 17     | 16 1/2 | 10 1/2         | 1              | 1 1/4        |
| 2        | 7 1/2  | 9 1/4  | 7 1/2  | 11 1/2 | 10     | 13 1/2 | 10     | 10 1/2 | 7 3/8  | 5 1/2  | 7 1/2  | 10 1/2 | 11 1/2 | 4 1/2  | 4 1/2  | 21 1/2 | 16 1/2 | 20 1/2 | 18 1/2 | 12 1/2         | 1 1/2          | 1 1/4        |
| 3        | 9      | 11     | 8 1/2  | 13 1/2 | 11 1/2 | 15 1/2 | 11 7/8 | 12 1/2 | 8 1/2  | 5 3/4  | 9 1/2  | 12 1/2 | 13 1/2 | 5 1/2  | 5 1/2  | 25 1/2 | 19 1/2 | 24 1/2 | 21 1/2 | 16             | 1 1/2          | 1 1/4        |
| 4        | 10 1/2 | 12 5/8 | 9 1/2  | 16 1/2 | 13 1/2 | 17 1/2 | 13 3/4 | 15     | 9 1/2  | 6 3/4  | 10 1/2 | 14 1/2 | 15 1/2 | 6 1/2  | 6 1/2  | 30     | 22 1/2 | 31     | 24 1/2 | 19             | 1 1/2          | 1 1/4        |
| 5        | 12 1/2 | 14 1/2 | 12     | 19     | 16 1/2 | 20 1/2 | 15 7/8 | 17 1/2 | 10 3/8 | 8      | 12 1/2 | 16 1/2 | 17 1/2 | 7 1/2  | 7 1/2  | 35 1/2 | 26 1/2 | 33 1/2 | 28 1/2 | 21 1/2         | 1 1/2          | 1 1/4        |
| 6        | 14 1/2 | 17 1/2 | 12 1/2 | 22 1/2 | 18 1/2 | 22 1/2 | 18     | 20 1/2 | 11 1/4 | 9 1/2  | 15     | 19     | 20 1/2 | 8 1/2  | 8 1/2  | 41     | 29 1/2 | 38 1/2 | 32 1/2 | 26             | 1 1/2          | 1 1/4        |
| 7        | 16 1/2 | 19 1/2 | 17     | 26     | 22 1/2 | 26 1/2 | 21 1/2 | 24     | 11 3/4 | 11 3/4 | 16 1/2 | 21     | 23 1/2 | 9 1/2  | 9 1/2  | 48     | 36 1/2 | 45 1/2 | 38 1/2 | 30 1/2         | 1 1/2          | 1 1/4        |
| 8        | 18 1/2 | 21 1/2 | 18     | 29 1/2 | 25 1/2 | 29 1/2 | 24 1/2 | 27 1/2 | 13 1/2 | 13 1/2 | 18 1/2 | 27 1/2 | 28     | 10 1/2 | 10 1/2 | 54 1/2 | 39 1/2 | 51 1/2 | 45 1/2 | 36             | 2 1/2          | 1 1/2        |
| 9        | 21 1/2 | 25 1/2 | 18 1/2 | 34 1/2 | 28 1/2 | 33     | 27 1/2 | 31 1/2 | 15 1/2 | 15 1/2 | 21 1/2 | 32     | 31     | 12 1/2 | 12 1/2 | 63     | 44     | 59     | 50 1/2 | 40             | 2 1/2          | 1 1/2        |
| 10       | 24 1/2 | 29 1/2 | 23 1/2 | 40 1/2 | 34 1/2 | 37 1/2 | 31 1/2 | 37 1/2 | 19 1/2 | 19 1/2 | 24 1/2 | 36 1/2 | 38 1/2 | 11 1/2 | 13 1/2 | 75     | 53 1/2 | 69 1/2 | 60 1/2 | 48             | 2 1/2          | 1 1/2        |

Note — The No. 10 Monogram Exhauster has Cast-Iron Hanger Extension to the Floor.



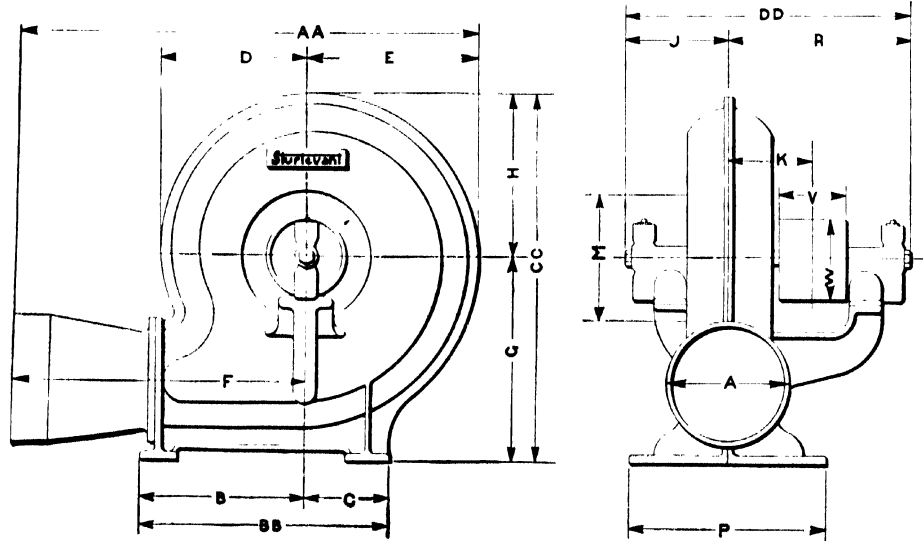
Double Inlet

## Monogram Fan – Design 2

Single Width

Full Housing

Bottom Horizontal Discharge



| Fan Size | A   | B   | C   | D   | E   | F   | G   | H   | J   | K   | M   | P   | R   | V   | W   | AA  | BB  | CC  | DD  | Wheel Diameter | Shaft Dia. | Anchor Bolts |
|----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------------|------------|--------------|
| 0000     | 2½  | 4½  | 2½  | 4½  | 4½  | 5½  | 5½  | 4½  | 1½  | 3½  | 3½  | 5½  | 6½  | 1½  | 1½  | 9½  | 7   | 9½  | 8½  | 6              | ½          | 1 ¼          |
| 00       | 4½  | 7   | 3   | 6½  | 6½  | 8½  | 7½  | 6½  | 5½  | 3   | 4½  | 6½  | 7½  | 1½  | 2½  | 11½ | 10  | 14½ | 12½ | 8½             | ¾          | 1 ¼          |
| 0        | 4½  | 8½  | 3½  | 7½  | 7½  | 10½ | 9   | 7½  | 5½  | 3½  | 5½  | 7½  | 8½  | 2½  | 3   | 18  | 12½ | 16½ | 14½ | 9½             | ¾          | 1 ¼          |
| 1        | 5½  | 9   | 4½  | 7½  | 9   | 11  | 10½ | 8½  | 6½  | 1   | 6½  | 9   | 10  | 2½  | 3½  | 20  | 13½ | 19½ | 16½ | 10½            | ¾          | 1 ¼          |
| 2        | 9½  | 11  | 5½  | 9½  | 10½ | 19½ | 12½ | 10  | 7½  | 5½  | 7½  | 10  | 11½ | 3½  | 4½  | 30½ | 16½ | 22½ | 18½ | 12½            | ¾          | 1 ¼          |
| 3        | 11  | 13  | 7   | 10½ | 12½ | 23½ | 14½ | 11½ | 8½  | 5½  | 8½  | 12  | 13½ | 4   | 5½  | 36½ | 20  | 26½ | 21½ | 16             | ¾          | 1 ¼          |
| 4        | 13½ | 15½ | 7½  | 12½ | 15  | 25½ | 17½ | 13½ | 9½  | 6½  | 10½ | 14  | 15½ | 4½  | 6   | 40½ | 22½ | 31  | 24½ | 19             | 1          | 1 ¼          |
| 5        | 14½ | 17½ | 9½  | 14½ | 17½ | 30½ | 20  | 16½ | 10½ | 8   | 11½ | 16½ | 17½ | 5½  | 6½  | 48  | 27  | 36½ | 28  | 21½            | 1½         | 1 ¼          |
| 6        | 16  | 20  | 11  | 17  | 20½ | 32½ | 23  | 18½ | 11½ | 9½  | 14½ | 19  | 20½ | 6½  | 8   | 53  | 31  | 41½ | 32½ | 26             | 1½         | 1 ¼          |
| 7        | 22  | 23½ | 12½ | 20  | 24  | 50  | 28  | 22  | 14½ | 11½ | 16  | 24  | 23½ | 7½  | 8½  | 74  | 36½ | 50  | 38½ | 30½            | 1½         | 1 ¼          |
| 8        | 26  | 26½ | 13½ | 23½ | 27½ | 56½ | 31½ | 25½ | 17½ | 13½ | 18  | 27½ | 28  | 8½  | 10½ | 83½ | 40½ | 56½ | 45½ | 36             | 1½         | 1 ¼          |
| 9        | 30  | 30½ | 16½ | 26  | 31½ | 64  | 37  | 28½ | 19½ | 15½ | 21  | 31½ | 31  | 10½ | 12  | 95½ | 46½ | 65½ | 50½ | 40             | 1½         | 1 ¼          |
| 10       | 34  | 31½ | 21½ | 31½ | 37½ | 71½ | 43  | 34½ | 21½ | 19½ | 24  | 36½ | 38½ | 11½ | 13½ | 109 | 56½ | 77½ | 60½ | 48             | 2          | 1 ¼          |

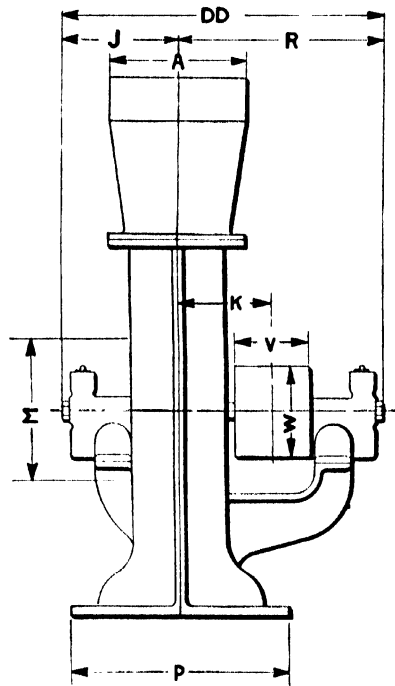
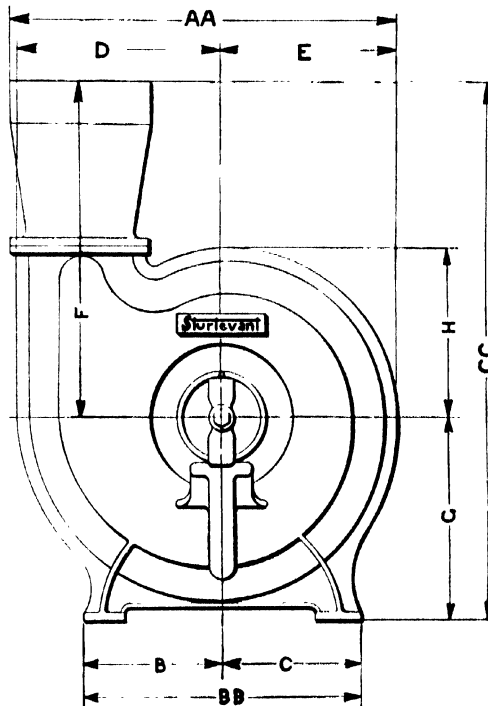
Double Inlet

## Monogram Fan – Design 2

Single Width

Full Housing

Up Blast Discharge



| Fan Size | A      | B      | C      | D      | F      | F      | G      | H      | J      | K      | M      | P      | R      | V      | W      | AA     | BB     | CC      | DD     | Wheel Diameter | Shaft Diameter | Anchor Bolts |
|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|--------|----------------|----------------|--------------|
| 0000     | 24     | 3 1/2  | 2 1/2  | 4 1/2  | 1 1/2  | 5 1/2  | 5 1/2  | 4 1/2  | 1 1/2  | 3 1/2  | 3 1/2  | 5 1/2  | 6 1/2  | 1 1/2  | 1 1/2  | 9 1/2  | 6      | 10 1/2  | 8 1/2  | 6              | 1/2            | 1            |
| 00       | 4 1/2  | 4 1/2  | 4 1/2  | 6 1/2  | 6 1/2  | 8 1/2  | 6 1/2  | 6 1/2  | 5 1/2  | 3      | 4 1/2  | 6 1/2  | 7 1/2  | 1 1/2  | 2 1/2  | 14 1/2 | 9 1/2  | 15 1/2  | 12 1/2 | 8 1/2          | 1 1/2          | 1 1/2        |
| 0        | 4 1/2  | 5 1/2  | 5 1/2  | 8 1/2  | 7 1/2  | 10 1/2 | 8 1/2  | 7 1/2  | 5 1/2  | 3 1/2  | 5 1/2  | 7 1/2  | 8 1/2  | 2 1/2  | 3      | 16 1/2 | 10 1/2 | 18 1/2  | 11 1/2 | 9 1/2          | 1 1/2          | 1 1/2        |
| 1        | 5 1/2  | 6 1/2  | 5 1/2  | 9 1/2  | 8 1/2  | 11     | 10     | 7 1/2  | 6 1/2  | 4      | 6 1/2  | 9      | 10     | 2 1/2  | 3 1/2  | 18 1/2 | 12 1/2 | 21      | 16 1/2 | 10 1/2         | 1 1/2          | 1 1/2        |
| 2        | 9 1/2  | 7 1/2  | 7 1/2  | 11 1/2 | 10     | 19 1/2 | 12 1/2 | 9 1/2  | 7 1/2  | 5 1/2  | 7 1/2  | 10     | 11 1/2 | 3 1/2  | 4 1/2  | 22 1/2 | 14 1/2 | 31 1/2  | 18 1/2 | 12 1/2         | 1 1/2          | 1 1/2        |
| 3        | 11     | 8 1/2  | 8 1/2  | 13 1/2 | 11 1/2 | 23 1/2 | 15 1/2 | 10 1/2 | 8 1/2  | 5 1/2  | 8 1/2  | 12     | 13 1/2 | 4      | 5 1/2  | 26 1/2 | 17     | 39      | 21 1/2 | 16             | 1 1/2          | 1 1/2        |
| 4        | 13 1/2 | 10     | 10     | 16 1/2 | 13 1/2 | 25 1/2 | 17 1/2 | 12 1/2 | 9 1/2  | 6 1/2  | 10 1/2 | 14     | 15 1/2 | 4 1/2  | 6      | 31 1/2 | 20     | 42 1/2  | 24 1/2 | 19             | 1              | 1 1/2        |
| 5        | 14 1/2 | 12 1/2 | 12 1/2 | 19     | 16 1/2 | 30 1/2 | 20 1/2 | 11 1/2 | 10 1/2 | 8      | 11 1/2 | 16 1/2 | 17 1/2 | 5 1/2  | 6 1/2  | 36     | 24 1/2 | 50 1/2  | 28     | 21 1/2         | 1 1/2          | 1 1/2        |
| 6        | 16     | 19     | 12     | 22 1/2 | 18 1/2 | 32 1/2 | 23 1/2 | 17     | 11 1/2 | 9 1/2  | 14 1/2 | 19     | 20 1/2 | 6 1/2  | 8      | 41 1/2 | 31     | 56      | 32 1/2 | 26             | 1 1/2          | 1 1/2        |
| 7        | 22     | 16     | 16     | 26     | 22     | 50     | 27 1/2 | 20     | 14 1/2 | 11 1/2 | 16     | 24     | 23 1/2 | 7 1/2  | 8 1/2  | 49 1/2 | 32     | 77 1/2  | 38 1/2 | 30 1/2         | 1 1/2          | 1 1/2        |
| 8        | 26     | 18     | 18     | 29 1/2 | 25 1/2 | 56 1/2 | 30 1/2 | 23 1/2 | 17 1/2 | 13 1/2 | 18     | 27 1/2 | 28     | 8 1/2  | 10 1/2 | 56 1/2 | 36     | 87      | 45 1/2 | 36             | 1 1/2          | 1 1/2        |
| 9        | 30     | 20 1/2 | 20 1/2 | 34 1/2 | 28 1/2 | 64     | 35 1/2 | 26     | 19 1/2 | 15 1/2 | 21     | 31 1/2 | 31     | 10 1/2 | 12     | 65 1/2 | 40 1/2 | 99 1/2  | 50 1/2 | 40             | 1 1/2          | 1 1/2        |
| 10       | 34     | 23 1/2 | 23 1/2 | 40 1/2 | 34 1/2 | 71 1/2 | 39 1/2 | 31 1/2 | 21 1/2 | 19 1/2 | 24     | 36 1/2 | 38 1/2 | 11 1/2 | 13 1/2 | 77 1/2 | 47     | 111 1/2 | 60 1/2 | 48             | 2 1/2          | 1            |

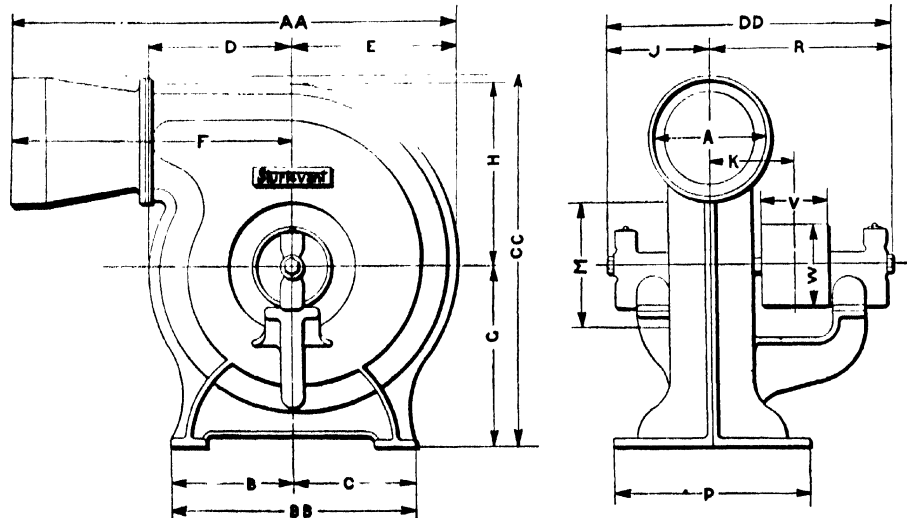
Double Inlet

## Monogram Fan – Design 2

Single Width

Full Housing

Top Horizontal Discharge



| Fan Size | A                | B                | C                | D                | E                | F                | G                | H                | J                | K                | M                | P                | R                | V                | W                | AA               | BB               | CC               | DD               | Wheel Diameter   | Shaft Dia.      | Anchor Bolts    |
|----------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------------|-----------------|
| 0000     | 2 $\frac{1}{2}$  | 3                | 3                | 4 $\frac{1}{2}$  | 4 $\frac{1}{2}$  | 5 $\frac{1}{2}$  | 5                | 4 $\frac{1}{2}$  | 1 $\frac{1}{2}$  | 3 $\frac{1}{2}$  | 3 $\frac{1}{2}$  | 5 $\frac{1}{2}$  | 6 $\frac{1}{2}$  | 1 $\frac{1}{2}$  | 1 $\frac{1}{2}$  | 9 $\frac{1}{2}$  | 6                | 10 $\frac{1}{2}$ | 8 $\frac{1}{2}$  | 6                | $\frac{1}{2}$   | 1 $\frac{1}{2}$ |
| 00       | 4 $\frac{1}{2}$  | 4 $\frac{1}{2}$  | 5                | 6 $\frac{1}{2}$  | 6 $\frac{1}{2}$  | 8 $\frac{1}{2}$  | 6 $\frac{1}{2}$  | 6 $\frac{1}{2}$  | 5 $\frac{1}{2}$  | 3                | 4 $\frac{1}{2}$  | 6 $\frac{1}{2}$  | 7 $\frac{1}{2}$  | 1 $\frac{1}{2}$  | 2 $\frac{1}{2}$  | 14 $\frac{1}{2}$ | 9 $\frac{1}{2}$  | 14 $\frac{1}{2}$ | 12 $\frac{1}{2}$ | 8 $\frac{1}{2}$  | $\frac{3}{4}$   | 1 $\frac{1}{2}$ |
| 0        | 1 $\frac{1}{2}$  | 5 $\frac{1}{2}$  | 5 $\frac{1}{2}$  | 7 $\frac{1}{2}$  | 7 $\frac{1}{2}$  | 10 $\frac{1}{2}$ | 8 $\frac{1}{2}$  | 8 $\frac{1}{2}$  | 5 $\frac{1}{2}$  | 3 $\frac{1}{2}$  | 5 $\frac{1}{2}$  | 7 $\frac{1}{2}$  | 8 $\frac{1}{2}$  | 2 $\frac{1}{2}$  | 3                | 18               | 10 $\frac{1}{2}$ | 17 $\frac{1}{2}$ | 14 $\frac{1}{2}$ | 9 $\frac{1}{2}$  | $\frac{1}{2}$   | 1 $\frac{1}{2}$ |
| 1        | 5 $\frac{1}{2}$  | 7 $\frac{1}{2}$  | 5 $\frac{1}{2}$  | 7 $\frac{1}{2}$  | 9                | 11               | 9                | 9 $\frac{1}{2}$  | 6 $\frac{1}{2}$  | 4                | 6 $\frac{1}{2}$  | 9                | 10               | 2 $\frac{1}{2}$  | 3 $\frac{1}{2}$  | 20               | 13 $\frac{1}{2}$ | 19 $\frac{1}{2}$ | 16 $\frac{1}{2}$ | 10 $\frac{1}{2}$ | $\frac{3}{4}$   | 1 $\frac{1}{2}$ |
| 2        | 9 $\frac{1}{2}$  | 6                | 6 $\frac{1}{2}$  | 9 $\frac{1}{2}$  | 10 $\frac{1}{2}$ | 19 $\frac{1}{2}$ | 10 $\frac{1}{2}$ | 11 $\frac{1}{2}$ | 7 $\frac{1}{2}$  | 5 $\frac{1}{2}$  | 7 $\frac{1}{2}$  | 10               | 11 $\frac{1}{2}$ | 3 $\frac{1}{2}$  | 4 $\frac{1}{2}$  | 30 $\frac{1}{2}$ | 12 $\frac{1}{2}$ | 22 $\frac{1}{2}$ | 18 $\frac{1}{2}$ | 12 $\frac{1}{2}$ | $\frac{1}{2}$   | 1 $\frac{1}{2}$ |
| 3        | 11               | 7 $\frac{1}{2}$  | 8 $\frac{1}{2}$  | 10 $\frac{1}{2}$ | 12 $\frac{1}{2}$ | 23 $\frac{1}{2}$ | 13               | 13 $\frac{1}{2}$ | 8 $\frac{1}{2}$  | 5 $\frac{1}{2}$  | 8 $\frac{1}{2}$  | 12               | 13 $\frac{1}{2}$ | 4                | 5 $\frac{1}{2}$  | 36 $\frac{1}{2}$ | 16               | 27 $\frac{1}{2}$ | 21 $\frac{1}{2}$ | 16               | $\frac{1}{2}$   | 1 $\frac{1}{2}$ |
| 4        | 13 $\frac{1}{2}$ | 11 $\frac{1}{2}$ | 11 $\frac{1}{2}$ | 12 $\frac{1}{2}$ | 15               | 25 $\frac{1}{2}$ | 15 $\frac{1}{2}$ | 16 $\frac{1}{2}$ | 9 $\frac{1}{2}$  | 6 $\frac{1}{2}$  | 10 $\frac{1}{2}$ | 14               | 15 $\frac{1}{2}$ | 4 $\frac{1}{2}$  | 6                | 40 $\frac{1}{2}$ | 22 $\frac{1}{2}$ | 33               | 24 $\frac{1}{2}$ | 19               | 1               | 1 $\frac{1}{2}$ |
| 5        | 14 $\frac{1}{2}$ | 12 $\frac{1}{2}$ | 12 $\frac{1}{2}$ | 14 $\frac{1}{2}$ | 17 $\frac{1}{2}$ | 30 $\frac{1}{2}$ | 18 $\frac{1}{2}$ | 19               | 10 $\frac{1}{2}$ | 8                | 11 $\frac{1}{2}$ | 16 $\frac{1}{2}$ | 17 $\frac{1}{2}$ | 5 $\frac{1}{2}$  | 6 $\frac{1}{2}$  | 48               | 24 $\frac{1}{2}$ | 38 $\frac{1}{2}$ | 28               | 21 $\frac{1}{2}$ | 1 $\frac{1}{2}$ | 1 $\frac{1}{2}$ |
| 6        | 16               | 17               | 13 $\frac{1}{2}$ | 17               | 20 $\frac{1}{2}$ | 32 $\frac{1}{2}$ | 22               | 22 $\frac{1}{2}$ | 11 $\frac{1}{2}$ | 9 $\frac{1}{2}$  | 11 $\frac{1}{2}$ | 19               | 20 $\frac{1}{2}$ | 6 $\frac{1}{2}$  | 8                | 53               | 30 $\frac{1}{2}$ | 44 $\frac{1}{2}$ | 32 $\frac{1}{2}$ | 26               | 1 $\frac{1}{2}$ | 1 $\frac{1}{2}$ |
| 7        | 22               | 16 $\frac{1}{2}$ | 15 $\frac{1}{2}$ | 20               | 24               | 50               | 23 $\frac{1}{2}$ | 26               | 14 $\frac{1}{2}$ | 11 $\frac{1}{2}$ | 16               | 24               | 23 $\frac{1}{2}$ | 7 $\frac{1}{2}$  | 8 $\frac{1}{2}$  | 74               | 32               | 51 $\frac{1}{2}$ | 38 $\frac{1}{2}$ | 30 $\frac{1}{2}$ | 1 $\frac{1}{2}$ | 1 $\frac{1}{2}$ |
| 8        | 26               | 17 $\frac{1}{2}$ | 17 $\frac{1}{2}$ | 23 $\frac{1}{2}$ | 27 $\frac{1}{2}$ | 56 $\frac{1}{2}$ | 28               | 29 $\frac{1}{2}$ | 17 $\frac{1}{2}$ | 13 $\frac{1}{2}$ | 18               | 27 $\frac{1}{2}$ | 28               | 8 $\frac{1}{2}$  | 10 $\frac{1}{2}$ | 83 $\frac{1}{2}$ | 35 $\frac{1}{2}$ | 59 $\frac{1}{2}$ | 45 $\frac{1}{2}$ | 36               | 1 $\frac{1}{2}$ | 1 $\frac{1}{2}$ |
| 9        | 30               | 20 $\frac{1}{2}$ | 20 $\frac{1}{2}$ | 26               | 31 $\frac{1}{2}$ | 64               | 32 $\frac{1}{2}$ | 34 $\frac{1}{2}$ | 19 $\frac{1}{2}$ | 15 $\frac{1}{2}$ | 21               | 31 $\frac{1}{2}$ | 31               | 10 $\frac{1}{2}$ | 12               | 95 $\frac{1}{2}$ | 40 $\frac{1}{2}$ | 69 $\frac{1}{2}$ | 50 $\frac{1}{2}$ | 40               | 1 $\frac{1}{2}$ | 1 $\frac{1}{2}$ |
| 10       | 34               | 23 $\frac{1}{2}$ | 23 $\frac{1}{2}$ | 31 $\frac{1}{2}$ | 37 $\frac{1}{2}$ | 71 $\frac{1}{2}$ | 36               | 40 $\frac{1}{2}$ | 21 $\frac{1}{2}$ | 19 $\frac{1}{2}$ | 24               | 36 $\frac{1}{2}$ | 38 $\frac{1}{2}$ | 11 $\frac{1}{2}$ | 13 $\frac{1}{2}$ | 109              | 47               | 79 $\frac{1}{2}$ | 60 $\frac{1}{2}$ | 48               | 2 $\frac{1}{2}$ | 1               |

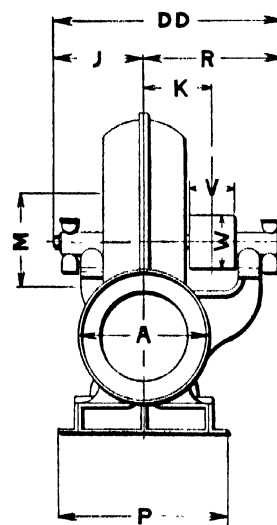
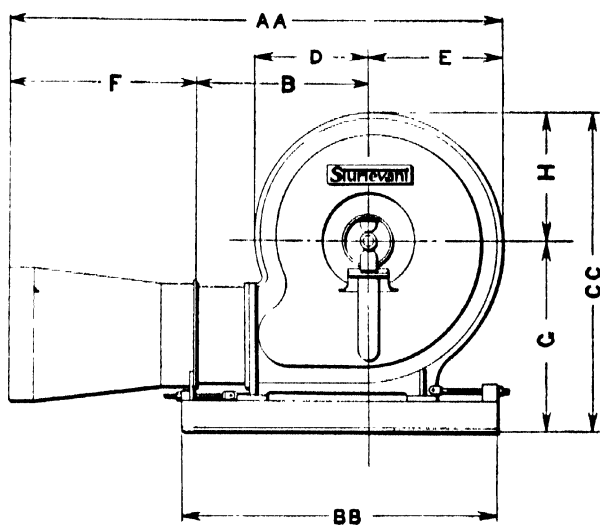
Double Inlet

# Monogram Blower with Adjustable Bed Design 2

Single Width

Full Housing

Bottom Horizontal Discharge



| Fan Size | A   | B   | D   | E   | F   | G   | H   | J   | K   | M   | P   | R   | V   | W   | AA   | BB  | CC  | DD  | Wheel Diameter | Shaft Diameter | Anchor Bolts |
|----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|----------------|----------------|--------------|
| 1        | 13½ | 25½ | 12½ | 15  | 20½ | 20½ | 13½ | 9½  | 6½  | 10½ | 19  | 15½ | 4½  | 6   | 61½  | 39  | 34½ | 24½ | 19             | 1              | 2            |
| 5        | 14½ | 29½ | 14½ | 17½ | 24  | 24½ | 16½ | 10½ | 8   | 11½ | 22½ | 17½ | 5½  | 6½  | 70½  | 44  | 40½ | 28  | 21½            | 1½             | 2            |
| 6        | 16  | 32½ | 17  | 20½ | 25  | 27½ | 18½ | 11½ | 9½  | 11½ | 25½ | 20½ | 6½  | 8   | 77½  | 51  | 46½ | 32½ | 26             | 1½             | 2            |
| 7        | 22  | 36½ | 20  | 24  | 32½ | 33  | 22  | 14½ | 11½ | 16  | 31  | 23½ | 7½  | 8½  | 93   | 60  | 55  | 38½ | 30½            | 1½             | 2            |
| 8        | 26  | 41½ | 23½ | 27½ | 36  | 37½ | 25½ | 17½ | 13½ | 18  | 33½ | 28  | 8½  | 10½ | 105  | 64  | 62½ | 45½ | 36             | 1½             | 2            |
| 9        | 30  | 47½ | 26  | 31½ | 41  | 45  | 28½ | 19½ | 15½ | 21  | 39½ | 31  | 10½ | 12  | 123½ | 79½ | 73½ | 50½ | 40             | 1½             | 2            |
| 10       | 34  | 51½ | 31½ | 37½ | 49½ | 51  | 34½ | 21½ | 19½ | 24  | 42  | 38½ | 11½ | 13½ | 141½ | 93½ | 85½ | 60½ | 48             | 2½             | 1            |

Single Inlet

**No. 0000 Monogram Fan—Design 2**

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed<br>F.M.P. | S.N.D.<br>in<br>inches | S.N.D.<br>H.P. | Volume<br>C.F.M.  | H.P.  | Volume<br>C.F.M.   | H.P.  | Volume<br>C.F.M.   | H.P.  | Volume<br>C.F.M.   | H.P.  | Volume<br>C.F.M.   | H.P. | Volume<br>C.F.M.   | H.P. | Volume<br>C.F.M.   | H.P. |
|--------|---------------------|------------------------|----------------|---|-------|--|-------|--|-------|--|-------|--|------|--|------|--|------|
|        |                     |                        |                | Static Pressure<br>1" Water<br>578 ozs. per<br>sq. inch |       | Static Pressure<br>2" Water<br>1.16 ozs. per<br>sq. inch |       | Static Pressure<br>3" Water<br>1.73 ozs. per<br>sq. inch |       | Static Pressure<br>4" Water<br>2.31 ozs. per<br>sq. inch |       | Static Pressure<br>5" Water<br>2.89 ozs. per<br>sq. inch |      | Static Pressure<br>6" Water<br>3.47 ozs. per<br>sq. inch |      | Static Pressure<br>7" Water<br>4.05 ozs. per<br>sq. inch |      |
| 3180   | 5000                | 1.93                   | .01            | 103   | 0.045 |  |       |  |       |  |       |  |      |  |      |  |      |
| 3340   | 5250                | 2.12                   | .01            | 113   | 0.053 | 53   | 0.032 |  |       |  |       |  |      |  |      |  |      |
| 3500   | 5500                | 2.33                   | .02            | 123   | 0.063 | 69   | 0.043 |  |       |  |       |  |      |  |      |  |      |
| 3650   | 5750                | 2.55                   | .02            | 132   | 0.073 | 85   | 0.055 |  |       |  |       |  |      |  |      |  |      |
| 3810   | 6000                | 2.77                   | .02            | 141   | 0.083 | 98   | 0.067 |  |       |  |       |  |      |  |      |  |      |
| 3970   | 6250                | 3.01                   | .02            | 149   | 0.091 | 109  | 0.079 | 50   | 0.046 |  |       |  |      |  |      |  |      |
| 4130   | 6500                | 3.25                   | .03            | 158   | 0.105 | 121  | 0.093 | 70   | 0.063 |  |       |  |      |  |      |  |      |
| 4300   | 6750                | 3.51                   | .03            | 167   | 0.120 | 132  | 0.105 | 87   | 0.081 |  |       |  |      |  |      |  |      |
| 4450   | 7000                | 3.77                   | .03            | 176   | 0.135 | 143  | 0.125 | 101  | 0.097 |  |       |  |      |  |      |  |      |
| 4600   | 7250                | 4.05                   | .04            | 183   | 0.150 | 153  | 0.140 | 115  | 0.115 | 58   | 0.072 |  |      |  |      |  |      |
| 4770   | 7500                | 4.34                   | .04            | 192   | 0.170 | 162  | 0.155 | 127  | 0.135 | 81   | 0.093 |  |      |  |      |  |      |
| 4930   | 7750                | 4.63                   | .04            | 200   | 0.190 | 172  | 0.175 | 139  | 0.155 | 98   | 0.115 |  |      |  |      |  |      |

Single Inlet

**No. 00 Monogram Fan—Design 2**

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed<br>F.M.P. | S.N.D.<br>in<br>inches | S.N.D.<br>H.P. | Volume<br>C.F.M.  | H.P.  | Volume<br>C.F.M.   | H.P.  | Volume<br>C.F.M.   | H.P.  | Volume<br>C.F.M.   | H.P.  | Volume<br>C.F.M.   | H.P.  | Volume<br>C.F.M.   | H.P.  | Volume<br>C.F.M.   | H.P.  |
|--------|---------------------|------------------------|----------------|---|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|
|        |                     |                        |                | Static Pressure<br>1" Water<br>578 ozs. per<br>sq. inch |       | Static Pressure<br>2" Water<br>1.16 ozs. per<br>sq. inch |       | Static Pressure<br>3" Water<br>1.73 ozs. per<br>sq. inch |       | Static Pressure<br>4" Water<br>2.31 ozs. per<br>sq. inch |       | Static Pressure<br>5" Water<br>2.89 ozs. per<br>sq. inch |       | Static Pressure<br>6" Water<br>3.47 ozs. per<br>sq. inch |       | Static Pressure<br>7" Water<br>4.05 ozs. per<br>sq. inch |       |
| 2310   | 5000                | 1.93                   | .03            | 232   | 0.100 |  |       |  |       |  |       |  |       |  |       |  |       |
| 2430   | 5250                | 2.12                   | .03            | 255   | 0.120 | 121  | 0.072 |  |       |  |       |  |       |  |       |  |       |
| 2540   | 5500                | 2.33                   | .04            | 278   | 0.145 | 157  | 0.098 |  |       |  |       |  |       |  |       |  |       |
| 2660   | 5750                | 2.55                   | .04            | 298   | 0.165 | 192  | 0.125 |  |       |  |       |  |       |  |       |  |       |
| 2780   | 6000                | 2.77                   | .05            | 318   | 0.185 | 221  | 0.150 |  |       |  |       |  |       |  |       |  |       |
| 2890   | 6250                | 3.01                   | .05            | 338   | 0.215 | 247  | 0.180 | 112  | 0.105 |  |       |  |       |  |       |  |       |
| 3010   | 6500                | 3.25                   | .06            | 358   | 0.245 | 274  | 0.210 | 159  | 0.145 |  |       |  |       |  |       |  |       |
| 3120   | 6750                | 3.51                   | .07            | 378   | 0.275 | 298  | 0.245 | 198  | 0.185 |  |       |  |       |  |       |  |       |
| 3240   | 7000                | 3.77                   | .07            | 398   | 0.305 | 322  | 0.280 | 229  | 0.220 |  |       |  |       |  |       |  |       |
| 3360   | 7250                | 4.05                   | .08            | 415   | 0.340 | 345  | 0.315 | 260  | 0.260 | 130  | 0.165 |  |       |  |       |  |       |
| 3470   | 7500                | 4.34                   | .09            | 535   | 0.380 | 367  | 0.350 | 288  | 0.305 | 183  | 0.210 |  |       |  |       |  |       |
| 3580   | 7750                | 4.63                   | .10            | 454   | 0.425 | 389  | 0.395 | 314  | 0.350 | 221  | 0.265 |  |       |  |       |  |       |
| 3700   | 8000                | 4.93                   | .11            | 470   | 0.470 |  |       | 339  | 0.395 | 254  | 0.320 | 126  | 0.205 |  |       |  |       |
| 3820   | 8250                | 5.25                   | .12            | 490   | 0.520 |  |       | 364  | 0.445 | 286  | 0.375 | 184  | 0.275 |  |       |  |       |
| 3930   | 8500                | 5.56                   | .13            | 508   | 0.570 |  |       | 388  | 0.495 | 312  | 0.435 | 224  | 0.335 |  |       |  |       |
| 4050   | 8750                | 5.90                   | .14            | 525   | 0.630 |  |       | 411  | 0.550 | 342  | 0.490 | 260  | 0.400 |  |       |  |       |
| 4170   | 9000                | 6.23                   | .16            | 543   | 0.680 |  |       | 433  | 0.600 | 367  | 0.550 | 291  | 0.460 | 135  | 0.265 |  |       |
| 4280   | 9250                | 6.60                   | .17            | 561   | 0.740 |  |       | 456  | 0.670 | 394  | 0.620 | 322  | 0.530 | 191  | 0.345 |  |       |
| 4400   | 9500                | 6.95                   | .19            | 579   | 0.790 |  |       | 477  | 0.730 | 417  | 0.680 | 352  | 0.610 | 235  | 0.420 |  |       |
| 4510   | 9750                | 7.33                   | .20            | 597   | 0.860 |  |       |  |       | 442  | 0.750 | 378  | 0.680 | 271  | 0.495 | 158  | 0.355 |
| 4630   | 10000               | 7.70                   | .22            | 615   | 0.930 |  |       |  |       | 465  | 0.820 | 404  | 0.750 | 307  | 0.580 | 214  | 0.450 |
| 4750   | 10250               | 8.10                   | .23            | 632   | 1.000 |  |       |  |       | 488  | 0.890 | 430  | 0.830 | 336  | 0.660 | 254  | 0.530 |
| 4860   | 10500               | 8.50                   | .25            | 648   | 1.100 |  |       |  |       | 510  | 0.960 | 455  | 0.900 | 367  | 0.740 | 292  | 0.630 |
| 4980   | 10750               | 8.90                   | .27            | 665   | 1.150 |  |       |  |       | 532  | 1.050 | 480  | 0.980 | 395  | 0.820 | 326  | 0.720 |
|        |                     |                        |                |   |       |  |       |  |       |  |       |  |       | 421  | 0.910 | 358  | 0.810 |



Single Inlet

## No. 1 Monogram Fan—Design 2

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S N D in inches | S N D H.P. | Volume C.F.M. H.P. Static Pressure 1" Water 5.78 ozs. per sq. inch | Volume C.F.M. H.P. Static Pressure 2" Water 1.16 ozs. per sq. inch | Volume C.F.M. H.P. Static Pressure 3" Water 1.73 ozs. per sq. inch | Volume C.F.M. H.P. Static Pressure 4" Water 2.31 ozs. per sq. inch | Volume C.F.M. H.P. Static Pressure 5" Water 2.89 ozs. per sq. inch | Volume C.F.M. H.P. Static Pressure 6" Water 3.47 ozs. per sq. inch | Volume C.F.M. H.P. Static Pressure 7" Water 4.05 ozs. per sq. inch |
|--------|------------------|-----------------|------------|--|--|--|--|--|--|--|
| 1760   | 5000             | 1.93            | .06        | 476  | 0.210  |  |  |  |  |  |
| 1840   | 5250             | 2.12            | .06        | 523  | 0.245  | 248  | 0.150  |  |  |  |
| 1930   | 5500             | 2.33            | .07        | 570  | 0.295  | 322  | 0.200  |  |  |  |
| 2020   | 5750             | 2.55            | .08        | 611  | 0.340  | 394  | 0.255  |  |  |  |
| 2100   | 6000             | 2.77            | .10        | 654  | 0.385  | 451  | 0.310  |  |  |  |
| 2190   | 6250             | 3.01            | .11        | 695  | 0.435  | 507  | 0.365  |  |  |  |
| 2280   | 6500             | 3.25            | .12        | 735  | 0.500  | 562  | 0.430  |  |  |  |
| 2370   | 6750             | 3.51            | .14        | 775  | 0.560  | 611  | 0.500  |  |  |  |
| 2460   | 7000             | 3.77            | .15        | 815  | 0.630  | 661  | 0.570  |  |  |  |
| 2550   | 7250             | 4.05            | .17        | 852  | 0.700  | 708  | 0.650  | 267  | 0.335  |  |
| 2630   | 7500             | 4.34            | .19        | 892  | 0.780  | 752  | 0.720  | 376  | 0.435  |  |
| 2720   | 7750             | 4.63            | .21        | 930  | 0.870  | 798  | 0.810  | 415  | 0.510  |  |
| 2810   | 8000             | 4.93            | .23        | 965  | 0.970  | 841  | 0.910  | 521  | 0.660  | 258  |
| 2900   | 8250             | 5.25            | .25        | 1000   | 1.050  | 886  | 1.000  | 587  | 0.770  | 377  |
| 2980   | 8500             | 5.56            | .27        | 1040   | 1.150  | 935  | 1.100  | 640  | 0.890  | 460  |
| 3070   | 8750             | 5.90            | .30        | 1080   | 1.300  | 980  | 1.150  | 701  | 1.000  | 534  |
| 3160   | 9000             | 6.23            | .32        | 1110   | 1.400  | 886  | 1.250  | 754  | 1.100  | 596  |
| 3250   | 9250             | 6.60            | .35        | 1150   | 1.500  | 935  | 1.350  | 810  | 1.250  | 660  |
| 3330   | 9500             | 6.95            | .38        | 1190   | 1.650  | 980  | 1.400  | 855  | 1.400  | 720  |
| 3420   | 9750             | 7.33            | .41        | 1230   | 1.750  |  |  | 906  | 1.550  | 775  |
| 3510   | 10000            | 7.70            | .44        | 1260   | 1.900  |  |  | 953  | 1.650  | 827  |
| 3600   | 10250            | 8.10            | .48        | 1300   | 2.050  |  |  | 1000   | 1.800  | 882  |
| 3690   | 10500            | 8.50            | .51        | 1340   | 2.200  |  |  | 1040   | 2.000  | 932  |
| 3780   | 10750            | 8.90            | .55        | 1380   | 2.400  |  |  | 1090   | 2.150  | 983  |
| 3860   | 11000            | 9.30            | .59        | 1400   | 2.600  |  |  | 1130   | 2.300  | 1030   |
| 3950   | 11250            | 9.74            | .63        | 1440   | 2.750  |  |  |  |  | 1080   |
| 4040   | 11500            | 10.2            | .67        | 1470   | 2.950  |  |  |  |  | 1130   |
| 3600   | 10250            | 8.10            | .48        | 378  | 1.000  |  |  |  |  |  |
| 3690   | 10500            | 8.50            | .51        | 496  | 1.200  |  |  |  |  |  |
| 3780   | 10750            | 8.90            | .55        | 579  | 1.400  | 357  | 1.050  |  |  |  |
| 3860   | 11000            | 9.30            | .59        | 651  | 1.600  | 477  | 1.300  |  |  |  |
| 3950   | 11250            | 9.74            | .63        | 720  | 1.800  | 560  | 1.500  |  |  |  |
| 4040   | 11500            | 10.20           | .67        | 787  | 2.000  | 645  | 1.750  |  |  |  |
| 4130   | 11750            | 10.60           | .72        | 849  | 2.250  | 720  | 2.000  | 260  | 1.100  |  |
| 4250   | 12000            | 11.10           | .76        | 910  | 2.500  | 785  | 2.250  | 462  | 1.400  |  |

### Single Width

| R.P.M. | Tip<br>Speed<br>F.P.M. | S.N.D.<br>in<br>inches | S.N.D.<br>H.P. | Volume<br>C.F.M.   | H. P. | Volume<br>C.F.M.   | H. P. | Volume<br>C.F.M.   | H. P. | Volume<br>C.F.M.   | H. P. | Volume<br>C.F.M.   | H. P. | Volume<br>C.F.M.   | H. P. | Volume<br>C.F.M.   | H. P. | Volume<br>C.F.M. | H. P. |
|--------|------------------------|------------------------|----------------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|------------------|-------|
|        |                        |                        |                | Static Pressure<br>1" Water<br>.578 ozs. per<br>sq. inch |       | Static Pressure<br>2" Water<br>1.16 ozs. per<br>sq. inch |       | Static Pressure<br>3" Water<br>1.73 ozs. per<br>sq. inch |       | Static Pressure<br>4" Water<br>2.31 ozs. per<br>sq. inch |       | Static Pressure<br>5" Water<br>2.89 ozs. per<br>sq. inch |       | Static Pressure<br>6" Water<br>3.47 ozs. per<br>sq. inch |       | Static Pressure<br>7" Water<br>4.05 ozs. per<br>sq. inch |       |                  |       |
| 1560   | 5000                   | 1.91                   | 0.06           | 642  | 0.255 | 212  | 0.115 |  |       |  |       |  |       |  |       |  |       |                  |       |
| 1639   | 5250                   | 2.10                   | 0.07           | 706  | 0.310 | 367  | 0.185 |  |       |  |       |  |       |  |       |  |       |                  |       |
| 1718   | 5500                   | 2.31                   | 0.09           | 765  | 0.365 | 475  | 0.255 |  |       |  |       |  |       |  |       |  |       |                  |       |
| 1795   | 5750                   | 2.52                   | 0.10           | 822  | 0.43  | 518  | 0.31  |  |       |  |       |  |       |  |       |  |       |                  |       |
| 1871   | 6000                   | 2.75                   | 0.11           | 873  | 0.50  | 625  | 0.38  |  |       |  |       |  |       |  |       |  |       |                  |       |
| 1950   | 6250                   | 2.98                   | 0.13           | 925  | 0.58  | 688  | 0.44  | 358  | 0.275 |  |       |  |       |  |       |  |       |                  |       |
| 2030   | 6500                   | 3.23                   | 0.14           | 975  | 0.68  | 754  | 0.52  | 484  | 0.375 |  |       |  |       |  |       |  |       |                  |       |
| 2110   | 6750                   | 3.48                   | 0.16           | 1,030  | 0.79  |  |       | 578  | 0.47  |  |       |  |       |  |       |  |       |                  |       |
| 2180   | 7000                   | 3.74                   | 0.18           | 1,080  | 0.90  |  |       | 658  | 0.56  |  |       |  |       |  |       |  |       |                  |       |
| 2260   | 7250                   | 4.01                   | 0.20           | 1,120  | 1.00  |  |       | 730  | 0.65  | 448  | 0.45  |  |       |  |       |  |       |                  |       |
| 2340   | 7500                   | 4.29                   | 0.22           | 1,170  | 1.15  |  |       | 802  | 0.75  | 554  | 0.57  |  |       |  |       |  |       |                  |       |
| 2420   | 7750                   | 4.58                   | 0.24           | 1,210  | 1.30  |  |       | 877  | 0.86  | 650  | 0.70  |  |       |  |       |  |       |                  |       |
| 2490   | 8000                   | 4.88                   | 0.27           | 1,260  | 1.45  |  |       | 916  | 0.98  | 736  | 0.82  | 416  | 0.54  |  |       |  |       |                  |       |
| 2570   | 8250                   | 5.20                   | 0.29           | 1,300  | 1.60  |  |       |  |       | 813  | 0.95  | 564  | 0.72  |  |       |  |       |                  |       |
| 2650   | 8500                   | 5.52                   | 0.32           | 1,350  | 1.75  |  |       |  |       | 883  | 1.05  | 668  | 0.87  |  |       |  |       |                  |       |
| 2730   | 8750                   | 5.85                   | 0.35           | 1,390  | 1.9   |  |       |  |       | 957  | 1.20  | 760  | 1.05  | 451  | 0.70  |  |       |                  |       |
| 2810   | 9000                   | 6.18                   | 0.38           | 1,430  | 2.1   |  |       |  |       | 1,020  | 1.35  | 838  | 1.20  | 597  | 0.91  |  |       |                  |       |
| 2880   | 9250                   | 6.53                   | 0.41           | 1,470  | 2.3   |  |       |  |       | 1,090  | 1.5   | 918  | 1.35  | 708  | 1.10  |  |       |                  |       |
| 2960   | 9500                   | 6.89                   | 0.45           | 1,520  | 2.5   |  |       |  |       |  |       | 990  | 1.50  | 798  | 1.30  | 511  | 0.92  |                  |       |
| 3045   | 9750                   | 7.25                   | 0.49           | 1,560  | 2.7   |  |       |  |       |  |       | 1,060  | 1.65  | 881  | 1.45  | 655  | 1.15  |                  |       |
| 3120   | 10000                  | 7.63                   | 0.52           | 1,600  | 2.9   |  |       |  |       |  |       | 1,120  | 1.85  | 960  | 1.65  | 768  | 1.40  |                  |       |
| 3200   | 10250                  | 8.02                   | 0.56           | 1,650  | 3.1   |  |       |  |       |  |       | 1,180  | 2     | 1,040  | 1.85  | 860  | 1.60  |                  |       |
| 3280   | 10500                  | 8.41                   | 0.60           | 1,690  | 3.3   |  |       |  |       |  |       |  |       | 1,110  | 2.05  | 945  | 1.80  |                  |       |
| 3350   | 10750                  | 8.81                   | 0.65           | 1,730  | 3.5   |  |       |  |       |  |       |  |       | 1,170  | 2.25  | 1,020  | 2.05  |                  |       |
| 3430   | 11000                  | 9.24                   | 0.70           | 1,770  | 3.7   |  |       |  |       |  |       |  |       | 1,240  | 2.5   | 1,100  | 2.25  |                  |       |
| 3510   | 11250                  | 9.66                   | 0.74           | 1,810  | 3.9   |  |       |  |       |  |       |  |       | 1,310  | 2.7   | 1,170  | 2.50  |                  |       |
| 3590   | 11500                  | 10.1                   | 0.8            | 1,850  | 4.1   |  |       |  |       |  |       |  |       |  |       | 1,240  | 2.75  |                  |       |

| R.P.M. | Tip<br>Speed<br>F.P.M. | S.N.D.<br>in<br>inches | S.N.D.<br>H.P. | Static Pressure<br>8" Water<br>4.63 ozs. per<br>sq. inch |      | Static Pressure<br>9" Water<br>5.2 ozs. per<br>sq. inch |      | Static Pressure<br>10" Water<br>5.78 ozs. per<br>sq. inch |      | Static Pressure<br>11" Water<br>6.36 ozs. per<br>sq. inch |      | Static Pressure<br>12" Water<br>6.93 ozs. per<br>sq. inch |      | Static Pressure<br>00" Water<br>0.00 ozs. per<br>sq. inch |  | Static Pressure<br>00" Water<br>0.00 ozs. per<br>sq. inch |  |
|--------|------------------------|------------------------|----------------|--|------|---|------|---|------|---|------|---|------|---|--|---|--|
| 3120   | 10000                  | 7 63                   | 0 52           | 128  | 0 96 |   |      |   |      |   |      |   |      |   |  |   |  |
| 3200   | 10250                  | 8 02                   | 0 56           | 619  | 1 25 |   |      |   |      |   |      |   |      |   |  |   |  |
| 3280   | 10500                  | 8 41                   | 0 60           | 745  | 1 50 |   |      |   |      |   |      |   |      |   |  |   |  |
| 3350   | 10750                  | 8 81                   | 0 65           | 846  | 1 75 | 565   | 1 30 |   |      |   |      |   |      |   |  |   |  |
| 3430   | 11000                  | 9 24                   | 0 70           | 938  | 2 00 | 715   | 1 65 |   |      |   |      |   |      |   |  |   |  |
| 3510   | 11250                  | 9 66                   | 0 74           | 1,020  | 2 25 | 837   | 1 95 | 533   | 1 40 |   |      |   |      |   |  |   |  |
| 3590   | 11500                  | 10 10                  | 0 80           | 1,100  | 2 50 | 933   | 2 20 | 713   | 1 75 |   |      |   |      |   |  |   |  |
| 3670   | 11750                  | 10 50                  | 0 85           | 1,170  | 2 75 | 1,020   | 2 50 | 833   | 2 10 | 574   | 1 25 |   |      |   |  |   |  |
| 3750   | 12000                  | 11 00                  | 0 90           | 1,240  | 3 0  | 1,100   | 2 75 | 935   | 2 45 | 715   | 2 00 |   |      |   |  |   |  |
| 3830   | 12250                  | 11 46                  | 0 96           | 1,320  | 3 3  | 1,180   | 3 05 | 1,030   | 2 75 | 858   | 2 35 | 492   | 1 65 |   |  |   |  |
| 3900   | 12500                  | 11 92                  | 1              | 1,390  | 3 6  | 1,250   | 3 5  | 1,110   | 3 05 | 943   | 2 7  | 710   | 2 2  |   |  |   |  |



### Single Width

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | S.N.D. H.P. | Volume C.F.M.                                   | . P.  | Volume C.F.M.                                   | . P.  | Volume C.F.M.                                   | H. P. | Volume C.F.M.                                   | H. P. | Volume C.F.M.                                   | H. P. | Volume C.F.M.                                   | H. P. | Volume C.F.M.                                   | H. P. | Volume C.F.M. | H. P. |
|--------|------------------|------------------|-------------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---------------|-------|
|        |                  |                  |             | Static Pressure 1" Water .578 ozs. per sq. inch |       | Static Pressure 2" Water 1.16 ozs. per sq. inch |       | Static Pressure 3" Water 1.73 ozs. per sq. inch |       | Static Pressure 4" Water 2.31 ozs. per sq. inch |       | Static Pressure 5" Water 2.89 ozs. per sq. inch |       | Static Pressure 6" Water 3.47 ozs. per sq. inch |       | Static Pressure 7" Water 4.05 ozs. per sq. inch |       |               |       |
| 1193   | 5000             | 1 91             | 0 09        | 921   | 0 365 | 304   | 0 165 |   |       |   |       |   |       |   |       |   |       |               |       |
| 1250   | 5250             | 2 10             | 0 10        | 1,010   | 0 44  | 527   | 0 27  |   |       |   |       |   |       |   |       |   |       |               |       |
| 1312   | 5500             | 2 31             | 0 12        | 1,100   | 0 53  | 682   | 0 37  |   |       |   |       |   |       |   |       |   |       |               |       |
| 1370   | 5750             | 2 52             | 0 11        | 1,180   | 0 61  | 786   | 0 45  |   |       |   |       |   |       |   |       |   |       |               |       |
| 1430   | 6000             | 2 75             | 0 16        | 1,260   | 0 72  | 896   | 0 55  |   |       |   |       |   |       |   |       |   |       |               |       |
| 1490   | 6250             | 2 98             | 0 18        | 1,330   | 0 84  | 987   | 0 63  | 515   | 0 395 |   |       |   |       |   |       |   |       |               |       |
| 1550   | 6500             | 3 23             | 0 20        | 1,400   | 0 98  | 1,080   | 0 75  | 694   | 0 51  |   |       |   |       |   |       |   |       |               |       |
| 1610   | 6750             | 3 48             | 0 23        | 1,470   | 1 15  |   |       | 829   | 0 67  |   |       |   |       |   |       |   |       |               |       |
| 1670   | 7000             | 3 71             | 0 26        | 1,540   | 1 30  |   |       | 941   | 0 80  |   |       |   |       |   |       |   |       |               |       |
| 1730   | 7250             | 4 01             | 0 29        | 1,610   | 1 45  |   |       | 1,050   | 0 93  |   |       |   |       |   |       |   |       |               |       |
| 1790   | 7500             | 4 29             | 0 32        | 1,680   | 1 65  |   |       | 1,150   | 1 10  | 643   | 0 65  |   |       |   |       |   |       |               |       |
| 1850   | 7750             | 4 58             | 0 35        | 1,740   | 1 85  |   |       | 1,260   | 1 25  | 795   | 0 82  |   |       |   |       |   |       |               |       |
|        |                  |                  |             |   |       |   |       | 932   | 1 00  |   |       |   |       |   |       |   |       |               |       |
| 1910   | 8000             | 4 88             | 0 38        | 1,800   | 2 05  |   |       | 1,360   | 1 4   | 1,060   | 1 20  | 597   | 0 77  |   |       |   |       |               |       |
| 1970   | 8250             | 5 20             | 0 42        | 1,860   | 2 30  |   |       |   |       | 1,170   | 1 35  | 810   | 1 05  |   |       |   |       |               |       |
| 2030   | 8500             | 5 52             | 0 47        | 1,930   | 2 50  |   |       |   |       | 1,270   | 1 55  | 958   | 1 25  |   |       |   |       |               |       |
| 2090   | 8750             | 5 85             | 0 50        | 1,990   | 2 75  |   |       |   |       | 1,370   | 1 75  | 1,090   | 1 50  | 648   | 1 00  |   |       |               |       |
| 2150   | 9000             | 6 18             | 0 55        | 2,050   | 3 05  |   |       |   |       | 1,470   | 1 95  | 1,200   | 1 70  | 856   | 1 30  |   |       |               |       |
| 2210   | 9250             | 6 53             | 0 59        | 2,110   | 3 30  |   |       |   |       |   |       | 1,320   | 1 90  | 1,020   | 1 60  |   |       |               |       |
| 2270   | 9500             | 6 89             | 0 64        | 2,180   | 3 60  |   |       |   |       | 1,570   | 2 2   | 1,420   | 2 15  | 1,150   | 1 85  | 735   | 1 30  |               |       |
| 2336   | 9750             | 7 25             | 0 69        | 2,240   | 3 85  |   |       |   |       |   |       | 1,520   | 2 40  | 1,270   | 2 10  | 940   | 1 65  |               |       |
| 2390   | 10000            | 7 63             | 0 75        | 2,300   | 4 15  |   |       |   |       |   |       | 1,610   | 2 65  | 1,380   | 2 40  | 1,100   | 2 00  |               |       |
| 2450   | 10250            | 8 02             | 0 81        | 2,360   | 4 4   |   |       |   |       |   |       | 1,700   | 2 9   | 1,490   | 2 65  | 1,240   | 2 30  |               |       |
| 2510   | 10500            | 8 41             | 0 87        | 2,420   | 4 7   |   |       |   |       |   |       |   |       | 1,590   | 2 95  | 1,360   | 2 60  |               |       |
| 2570   | 10750            | 8 81             | 0 93        | 2,480   | 5 0   |   |       |   |       |   |       |   |       | 1,690   | 3 25  | 1,470   | 2 90  |               |       |
| 2630   | 11000            | 9 24             | 1 0         | 2,540   | 5 3   |   |       |   |       |   |       |   |       | 1,780   | 3 55  | 1,580   | 3 25  |               |       |
| 2690   | 11250            | 9 66             | 1 1         | 2,600   | 5 6   |   |       |   |       |   |       |   |       | 1,890   | 3 9   | 1,680   | 3 60  |               |       |
| 2740   | 11500            | 10 1             | 1 1         | 2,660   | 5 9   |   |       |   |       |   |       |   |       |   |       |   |       |               |       |

### Single Width

**When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances**

| R.P.M. | Tip Speed<br>F.P.M. | S.N.D.<br>in inches | S.N.D.<br>H.P. | Volume<br>C.F.M.   | H. P. | Volume<br>C.F.M.   | H. P. | Volume<br>C.F.M.   | H. P. | Volume<br>C.F.M.   | H. P. | Volume<br>C.F.M.   | H. P. | Volume<br>C.F.M.   | H. P. | Volume<br>C.F.M.   | H. P. | Volume<br>C.F.M. | H. P. |
|--------|---------------------|---------------------|----------------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|------------------|-------|
|        |                     |                     |                | Static Pressure<br>1" Water<br>5.78 oss. per<br>sq. inch |       | Static Pressure<br>2" Water<br>1.16 oss. per<br>sq. inch |       | Static Pressure<br>3" Water<br>1.73 oss. per<br>sq. inch |       | Static Pressure<br>4" Water<br>2.31 oss. per<br>sq. inch |       | Static Pressure<br>5" Water<br>2.89 oss. per<br>sq. inch |       | Static Pressure<br>6" Water<br>3.47 oss. per<br>sq. inch |       | Static Pressure<br>7" Water<br>4.05 oss. per<br>sq. inch |       |                  |       |
| 1000   | 5000                | 1.98                | 0.07           | 1,040  | 0.435 | 534  | 0.26  |  |       |  |       |  |       |  |       |  |       |                  |       |
| 1050   | 5250                | 2.18                | 0.08           | 1,120  | 0.52  | 718  | 0.36  |  |       |  |       |  |       |  |       |  |       |                  |       |
| 1100   | 5500                | 2.39                | 0.09           | 1,210  | 0.62  | 850  | 0.45  |  |       |  |       |  |       |  |       |  |       |                  |       |
| 1150   | 5750                | 2.62                | 0.11           | 1,290  | 0.74  | 967  | 0.55  |  |       |  |       |  |       |  |       |  |       |                  |       |
| 1205   | 6000                | 2.85                | 0.12           | 1,370  | 0.83  | 1,070  | 0.66  | 484  | 0.365 |  |       |  |       |  |       |  |       |                  |       |
| 1250   | 6250                | 3.09                | 0.14           | 1,450  | 0.96  | 1,170  | 0.77  | 758  | 0.56  |  |       |  |       |  |       |  |       |                  |       |
| 1305   | 6500                | 3.31                | 0.15           | 1,520  | 1.05  | 1,270  | 0.89  | 916  | 0.70  |  |       |  |       |  |       |  |       |                  |       |
| 1355   | 6750                | 3.60                | 0.17           | 1,600  | 1.20  |  |       | 1,050  | 0.84  |  |       |  |       |  |       |  |       |                  |       |
| 1404   | 7000                | 3.88                | 0.19           | 1,670  | 1.35  |  |       | 1,160  | 0.98  | 664  | 0.65  |  |       |  |       |  |       |                  |       |
| 1455   | 7250                | 4.17                | 0.21           | 1,750  | 1.50  |  |       | 1,270  | 1.15  | 905  | 0.89  |  |       |  |       |  |       |                  |       |
| 1505   | 7500                | 4.45                | 0.23           | 1,820  | 1.70  |  |       | 1,370  | 1.3   | 1,060  | 1.05  |  |       |  |       |  |       |                  |       |
| 1555   | 7750                | 4.75                | 0.26           | 1,890  | 1.90  |  |       | 1,470  | 1.5   | 1,190  | 1.25  | 612  | 0.77  |  |       |  |       |                  |       |
| 1605   | 8000                | 5.07                | 0.28           | 1,970  | 2.15  |  |       | 1,570  | 1.7   | 1,310  | 1.45  | 933  | 1.10  |  |       |  |       |                  |       |
| 1655   | 8250                | 5.38                | 0.31           | 2,040  | 2.35  |  |       |  |       | 1,410  | 1.65  | 1,110  | 1.35  |  |       |  |       |                  |       |
| 1705   | 8500                | 5.71                | 0.34           | 2,110  | 2.60  |  |       |  |       | 1,520  | 1.85  | 1,250  | 1.60  | 685  | 1.05  |  |       |                  |       |
| 1755   | 8750                | 6.07                | 0.37           | 2,190  | 2.85  |  |       |  |       | 1,620  | 2.10  | 1,370  | 1.85  | 1,030  | 1.45  |  |       |                  |       |
| 1805   | 9000                | 6.41                | 0.41           | 2,250  | 3.10  |  |       |  |       | 1,490  | 2.10  | 1,210  | 1.80  |  |       |  |       |                  |       |
| 1855   | 9250                | 6.77                | 0.44           | 2,330  | 3.35  |  |       |  |       | 1,590  | 2.35  | 1,310  | 2.05  |  |       | 849  | 1.45  |                  |       |
| 1910   | 9500                | 7.14                | 0.48           | 2,400  | 3.60  |  |       |  |       | 1,690  | 2.6   | 1,460  | 2.30  |  |       | 1,130  | 1.80  |                  |       |
| 1960   | 9750                | 7.51                | 0.52           | 2,470  | 3.95  |  |       |  |       | 1,790  | 2.9   | 1,580  | 2.60  |  |       | 1,300  | 2.25  |                  |       |
| 2000   | 10000               | 7.91                | 0.56           | 2,540  | 4.25  |  |       |  |       | 1,890  | 3.2   | 1,690  | 2.85  |  |       | 1,450  | 2.60  |                  |       |
| 2055   | 10250               | 8.31                | 0.60           | 2,620  | 4.65  |  |       |  |       | 1,990  | 3.5   | 1,790  | 3.20  |  |       | 1,570  | 2.90  |                  |       |
| 2110   | 10500               | 8.71                | 0.64           | 2,680  | 5.0   |  |       |  |       |  |       | 1,900  | 3.55  |  |       | 1,690  | 3.25  |                  |       |
| 2155   | 10750               | 9.14                | 0.69           | 2,750  | 5.4   |  |       |  |       |  |       | 2,000  | 3.90  |  |       | 1,810  | 3.55  |                  |       |
| 2210   | 11000               | 9.57                | 0.74           | 2,820  | 5.8   |  |       |  |       |  |       | 2,090  | 4.25  |  |       | 1,910  | 3.95  |                  |       |
| 2260   | 11250               | 10.00               | 0.79           | 2,890  | 6.2   |  |       |  |       |  |       | 2,180  | 4.6   |  |       | 2,010  | 4.3   |                  |       |
| 2310   | 11500               | 10.46               | 0.85           | 2,960  | 6.6   |  |       |  |       |  |       |  |       |  |       |  |       |                  |       |

### Single Width

**When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances**

| R.P.M. | Tip Speed<br>F.P.M. | S.N.D.<br>in inches | S.N.D.<br>H. P. | Volume   | H. P. | Volume   | H. P. | Volume   | H. P. | Volume   | H. P. | Volume   | H. P. | Volume   | H. P. | Volume   | H. P. |
|--------|---------------------|---------------------|-----------------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|
|        |                     |                     |                 | C.F.M.   |       | C.F.M.   |       | C.F.M.   |       | C.F.M.   |       | C.F.M.   |       | C.F.M.   |       | C.F.M.   |       |
|        |                     |                     |                 | Static Pressure<br>1" Water<br>.578 ozs. per<br>sq. inch |       | Static Pressure<br>2" Water<br>1.16 ozs. per<br>sq. inch |       | Static Pressure<br>3" Water<br>1.73 ozs. per<br>sq. inch |       | Static Pressure<br>4" Water<br>2.31 ozs. per<br>sq. inch |       | Static Pressure<br>5" Water<br>2.89 ozs. per<br>sq. inch |       | Static Pressure<br>6" Water<br>3.47 ozs. per<br>sq. inch |       | Static Pressure<br>7" Water<br>4.05 ozs. per<br>sq. inch |       |
| 888    | 5000                | 1 98                | 0 10            | 1,520  | 0 63  | 775  | 0 375 |  |       |  |       |  |       |  |       |  |       |
| 933    | 5250                | 2 18                | 0 12            | 1,630  | 0 76  | 1,050  | 0 52  |  |       |  |       |  |       |  |       |  |       |
| 977    | 5500                | 2 39                | 0 13            | 1,750  | 0 90  | 1,210  | 0 65  |  |       |  |       |  |       |  |       |  |       |
| 1021   | 5750                | 2 62                | 0 15            | 1,870  | 1 05  | 1,410  | 0 80  |  |       |  |       |  |       |  |       |  |       |
| 1065   | 6000                | 2 85                | 0 17            | 1,990  | 1 20  | 1,560  | 0 95  | 702  | 0 53  |  |       |  |       |  |       |  |       |
| 1110   | 6250                | 3 06                | 0 20            | 2,100  | 1 40  | 1,700  | 1 11  | 1,110  | 0 81  |  |       |  |       |  |       |  |       |
| 1155   | 6500                | 3 31                | 0 22            | 2,210  | 1 55  | 1,840  | 1 3   | 1,330  | 1 00  |  |       |  |       |  |       |  |       |
| 1200   | 6750                | 3 60                | 0 25            | 2,320  | 1 75  |  |       | 1,530  | 1 20  |  |       |  |       |  |       |  |       |
| 1245   | 7000                | 3 88                | 0 28            | 2,430  | 2 00  |  |       | 1,690  | 1 45  | 963  | 0 94  |  |       |  |       |  |       |
| 1290   | 7250                | 4 17                | 0 31            | 2,540  | 2 20  |  |       | 1,850  | 1 65  | 1,320  | 1 30  |  |       |  |       |  |       |
| 1335   | 7500                | 4 45                | 0 31            | 2,640  | 2 50  |  |       | 1,990  | 1 90  | 1,540  | 1 55  |  |       |  |       |  |       |
| 1375   | 7750                | 4 75                | 0 38            | 2,750  | 2 80  |  |       | 2,130  | 2 15  | 1,730  | 1 85  | 890  | 1 10  |  |       |  |       |
| 1421   | 8000                | 5 07                | 0 41            | 2,860  | 3 10  |  |       | 2,280  | 2 50  | 1,900  | 2 10  | 1,360  | 1 60  |  |       |  |       |
| 1465   | 8250                | 5 38                | 0 45            | 2,970  | 3 40  |  |       |  |       | 2,060  | 2 40  | 1,610  | 2 00  |  |       |  |       |
| 1510   | 8500                | 5 71                | 0 49            | 3,060  | 3 75  |  |       |  |       | 2,200  | 2 70  | 1,810  | 2 30  | 1,000  | 1 50  |  |       |
| 1555   | 8750                | 6 07                | 0 54            | 3,180  | 4 15  |  |       |  |       | 2,350  | 3 05  | 1,990  | 2 65  | 1,490  | 2 15  |  |       |
| 1600   | 9000                | 6 41                | 0 59            | 3,270  | 4 50  |  |       |  |       | 2,500  | 3 40  | 2,160  | 3 05  | 1,760  | 2 60  |  |       |
| 1640   | 9250                | 6 77                | 0 64            | 3,390  | 4 85  |  |       |  |       | 2,630  | 3 75  | 2,320  | 3 4   | 1,940  | 2 95  | 1,240  | 2 10  |
| 1680   | 9500                | 7 14                | 0 69            | 3,490  | 5 3   |  |       |  |       |  |       | 2,450  | 3 8   | 2,120  | 3 35  | 1,640  | 2 80  |
| 1730   | 9750                | 7 51                | 0 75            | 3,590  | 5 7   |  |       |  |       |  |       | 2,610  | 4 2   | 2,290  | 3 75  | 1,890  | 3 38  |
| 1770   | 10000               | 7 91                | 0 81            | 3,690  | 6 2   |  |       |  |       |  |       | 2,750  | 4 6   | 2,450  | 4 15  | 2,100  | 3 75  |
| 1820   | 10250               | 8 31                | 0 87            | 3,800  | 6 7   |  |       |  |       |  |       | 2,890  | 5     | 2,610  | 4 65  | 2,280  | 4 2   |
| 1860   | 10500               | 8 71                | 0 93            | 3,900  | 7 3   |  |       |  |       |  |       |  |       | 2,760  | 5 2   | 2,450  | 4 7   |
| 1910   | 10750               | 9 14                | 1 0             | 4,000  | 7 9   |  |       |  |       |  |       |  |       | 2,900  | 5 7   | 2,620  | 5 2   |
| 1950   | 11000               | 9 57                | 1 1             | 4,100  | 8 4   |  |       |  |       |  |       |  |       | 3,040  | 6 2   | 2,770  | 5 7   |
| 2000   | 11250               | 10 00               | 1 1             | 4,200  | 9 0   |  |       |  |       |  |       |  |       | 3,180  | 6 7   | 2,920  | 6 3   |
| 2040   | 11500               | 10 46               | 1 2             | 4,300  | 9 6   |  |       |  |       |  |       |  |       |  |       | 3,070  | 6 9   |
| 2085   | 11750               | 10 92               | 1 3             | 4,400  | 10    |  |       |  |       |  |       |  |       |  |       | 3,220  | 7 5   |
| 2130   | 12000               | 11 40               | 1 4             | 4,510  | 11    |  |       |  |       |  |       |  |       |  |       | 3,350  | 8 1   |

| R.P.M. | Tip Speed<br>F.P.M. | S.N.D.<br>in inches | S.N.D.<br>H. P. | Volume   | H. P. | Volume  | H. P. | Volume  | H. P. | Volume  | H. P. | Volume  | H. P. | Volume  | H. P. | Volume  | H. P. |
|--------|---------------------|---------------------|-----------------|--|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|
|        |                     |                     |                 | C.F.M.   |       | C.F.M.  |       | C.F.M.  |       | C.F.M.  |       | C.F.M.  |       | C.F.M.  |       | C.F.M.  |       |
|        |                     |                     |                 | Static Pressure<br>8" Water<br>4.63 ozs. per<br>sq. inch |       | Static Pressure<br>9" Water<br>5.2 ozs. per<br>sq. inch |       | Static Pressure<br>10" Water<br>5.78 ozs. per<br>sq. inch |       | Static Pressure<br>11" Water<br>6.36 ozs. per<br>sq. inch |       | Static Pressure<br>12" Water<br>6.93 ozs. per<br>sq. inch |       | Static Pressure<br>13" Water<br>7.51 ozs. per<br>sq. inch |       | Static Pressure<br>14" Water<br>8.08 ozs. per<br>sq. inch |       |
| 1770   | 10000               | 7 91                | 0 81            | 1,550  | 3 00  |   |       |   |       |   |       |   |       |   |       |   |       |
| 1820   | 10250               | 8 31                | 0 87            | 1,860  | 3 65  |   |       |   |       |   |       |   |       |   |       |   |       |
| 1860   | 10500               | 8 71                | 0 93            | 2,080  | 4 15  | 1,450   | 3 20  |   |       |   |       |   |       |   |       |   |       |
| 1910   | 10750               | 9 14                | 1 0             | 2,290  | 4 70  | 1,810   | 3 95  |   |       |   |       |   |       |   |       |   |       |
| 1950   | 11000               | 9 57                | 1 1             | 2,470  | 5 25  | 2,090   | 4 65  | 1,350   | 3 35  |   |       |   |       |   |       |   |       |
| 2000   | 11250               | 10 00               | 1 1             | 2,640  | 5 8   | 2,310   | 5 2   | 1,810   | 4 4   |   |       |   |       |   |       |   |       |
| 2040   | 11500               | 10 46               | 1 2             | 2,800  | 6 4   | 2,500   | 5 8   | 2,110   | 5 2   | 1,360   | 3 75  |   |       |   |       |   |       |
| 2085   | 11750               | 10 92               | 1 3             | 2,960  | 7 0   | 2,690   | 6 5   | 2,340   | 5 9   | 1,860   | 4 9   |   |       |   |       |   |       |
| 2130   | 12000               | 11 40               | 1 4             | 3,110  | 7 6   | 2,850   | 7 1   | 2,530   | 6 6   | 2,150   | 5 8   | 1,380   | 4 15  |   |       |   |       |
| 2175   | 12250               | 11 87               | 1 5             | 3,250  | 8 3   | 3,000   | 7 7   | 2,720   | 7 2   | 2,390   | 6 5   | 1,900   | 5 5   |   |       |   |       |
| 2220   | 12500               | 12 35               | 1 6             | 3,400  | 9 0   | 3,160   | 8 4   | 2,900   | 7 9   | 2,610   | 7 3   | 2,210   | 6 5   | 1,440   | 4 7   |   |       |
| 2265   | 12750               | 12 87               | 1 7             | 3,550  | 9 7   | 3,310   | 9 1   | 3,060   | 8 6   | 2,810   | 8 1   | 2,460   | 7 3   | 1,980   | 6 2   |   |       |
| 2310   | 13000               | 13 36               | 1 8             |  |       | 3,460   | 9 9   | 3,220   | 9 3   | 2,970   | 8 8   | 2,670   | 8 1   | 2,280   | 7 3   | 1,550   | 5 3   |
| 2350   | 13250               | 13 9                | 1 9             |  |       | 3,600   | 10 5  | 3,390   | 10 0  | 3,140   | 9 6   | 2,770   | 9 0   | 2,560   | 8 2   | 2,090   | 7 1   |
| 2395   | 13500               | 14 1                | 2 0             |  |       | 3,730   | 11 5  | 3,520   | 11 0  | 3,290   | 10 5  | 3,050   | 9 7   | 2,770   | 9 1   | 2,370   | 8 1   |

### Single Width

| R.P.M. | Tip Speed<br>F.P.M. | S.N.D.<br>in inches | S.N.D.<br>H. P. | Volume<br>C.F.M.   | H. P.   | Volume<br>C.F.M.  | H. P.   | Volume<br>C.F.M.  | H. P.   | Volume<br>C.F.M.  | H. P. | Volume<br>C.F.M. | H. P. | Volume<br>C.F.M. | H. P. | Volume<br>C.F.M. | H. P. | Volume<br>C.F.M. | H. P. |
|--------|---------------------|---------------------|-----------------|--|---|---|---|---|---|---|-------|------------------|-------|------------------|-------|------------------|-------|------------------|-------|
|        |                     |                     |                 | Static Pressure<br>8" Water<br>4.63 ozs. per<br>sq. inch | Static Pressure<br>9" Water<br>5.2 ozs. per<br>sq. inch | Static Pressure<br>10" Water<br>5.78 ozs. per<br>sq. inch | Static Pressure<br>11" Water<br>6.36 ozs. per<br>sq. inch | Static Pressure<br>12" Water<br>6.93 ozs. per<br>sq. inch | Static Pressure<br>13" Water<br>7.51 ozs. per<br>sq. inch | Static Pressure<br>14" Water<br>8.08 ozs. per<br>sq. inch |       |                  |       |                  |       |                  |       |                  |       |
| 735    | 5000                | 1 98                | 0 13            | 1,910  | 0.79  | 975   | 0.47  |   |   |   |       |                  |       |                  |       |                  |       |                  |       |
| 770    | 5250                | 2 18                | 0 15            | 2,050  | 0.95  | 1,310   | 0.66  |   |   |   |       |                  |       |                  |       |                  |       |                  |       |
| 806    | 5500                | 2 39                | 0 17            | 2,200  | 1.15  | 1,550   | 0.82  |   |   |   |       |                  |       |                  |       |                  |       |                  |       |
| 845    | 5750                | 2 62                | 0 19            | 2,350  | 1.35  | 1,770   | 1.00  |   |   |   |       |                  |       |                  |       |                  |       |                  |       |
| 880    | 6000                | 2 85                | 0 22            | 2,500  | 1.50  | 1,960   | 1.20  | 885   | 0.66  |   |       |                  |       |                  |       |                  |       |                  |       |
| 917    | 6250                | 3 09                | 0 25            | 2,640  | 1.75  | 2,140   | 1.40  | 1,380   | 1.00  |   |       |                  |       |                  |       |                  |       |                  |       |
| 954    | 6500                | 3 34                | 0 28            | 2,780  | 1.95  | 2,320   | 1.65  | 1,670   | 1.25  |   |       |                  |       |                  |       |                  |       |                  |       |
| 990    | 6750                | 3 60                | 0 31            | 2,920  | 2.20  |   |   | 1,920   | 1.55  |   |       |                  |       |                  |       |                  |       |                  |       |
| 1030   | 7000                | 3 88                | 0 35            | 3,050  | 2.50  |   |   | 2,120   | 1.8   | 1,210   | 1.20  |                  |       |                  |       |                  |       |                  |       |
| 1065   | 7250                | 4 17                | 0 39            | 3,190  | 2.80  |   |   | 2,320   | 2.1   | 1,650   | 1.60  |                  |       |                  |       |                  |       |                  |       |
| 1100   | 7500                | 4 45                | 0 43            | 3,320  | 3.15  |   |   | 2,510   | 2.4   | 1,930   | 1.95  |                  |       |                  |       |                  |       |                  |       |
| 1140   | 7750                | 4 75                | 0 47            | 3,460  | 3.50  |   |   | 2,680   | 2.7   | 2,170   | 2.30  | 1,120            | 1.40  |                  |       |                  |       |                  |       |
| 1175   | 8000                | 5 07                | 0 52            | 3,600  | 3.90  |   |   | 2,380   | 2.65  | 2,380   | 2.65  | 1,700            | 2.00  |                  |       |                  |       |                  |       |
| 1210   | 8250                | 5 38                | 0 57            | 3,730  | 4.30  |   |   | 2,580   | 3.00  | 2,020   | 2.50  |                  |       |                  |       |                  |       |                  |       |
| 1250   | 8500                | 5 71                | 0 62            | 3,850  | 4.75  |   |   | 2,770   | 3.40  | 2,270   | 2.90  | 1,250            | 1.90  |                  |       |                  |       |                  |       |
| 1285   | 8750                | 6 07                | 0 68            | 3,990  | 5.20  |   |   | 2,960   | 3.85  | 2,500   | 3.35  | 1,870            | 2.65  |                  |       |                  |       |                  |       |
| 1320   | 9000                | 6 41                | 0 74            | 4,110  | 5.6   |   |   | 3,140   | 4.25  | 2,710   | 3.80  | 2,210            | 3.30  |                  |       |                  |       |                  |       |
| 1355   | 9250                | 6 77                | 0 80            | 4,250  | 6.1   |   |   | 3,300   | 4.7   | 2,910   | 4.25  | 2,440            | 3.75  | 1,550            | 2.65  |                  |       |                  |       |
| 1390   | 9500                | 7 14                | 0 87            | 4,370  | 6.6   |   |   |   |   | 3,080   | 4.75  | 2,670            | 4.20  | 2,060            | 3.5   |                  |       |                  |       |
| 1430   | 9750                | 7 51                | 0 94            | 4,510  | 7.2   |   |   |   |   | 3,270   | 5.3   | 2,880            | 4.75  | 2,380            | 4.1   |                  |       |                  |       |
| 1470   | 10000               | 7 91                | 1 0             | 4,640  | 7.8   |   |   |   |   | 3,450   | 5.8   | 3,080            | 5.3   | 2,640            | 4.7   |                  |       |                  |       |
| 1505   | 10250               | 8 31                | 1 1             | 4,770  | 8.5   |   |   |   |   | 3,630   | 6.3   | 3,270            | 5.9   | 2,870            | 5.3   |                  |       |                  |       |
| 1540   | 10500               | 8 71                | 1 2             | 4,890  | 9.1   |   |   |   |   |   |       | 3,460            | 6.5   | 3,080            | 6.0   |                  |       |                  |       |
| 1575   | 10750               | 9 14                | 1 3             | 5,020  | 9.9   |   |   |   |   |   |       | 3,640            | 7.1   | 3,300            | 6.5   |                  |       |                  |       |
| 1610   | 11000               | 9 57                | 1 4             | 5,150  | 10.5  |   |   |   |   |   |       | 3,820            | 7.8   | 3,480            | 7.2   |                  |       |                  |       |
| 1650   | 11250               | 10 00               | 1 4             | 5,280  | 11.5  |   |   |   |   |   |       | 3,980            | 8.4   | 3,660            | 7.9   |                  |       |                  |       |
| 1690   | 11500               |                     |                 |  |   |   |   |   |   |   |       |                  |       |                  |       |                  |       |                  |       |

### Single Width

**When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances**

| R.P.M. | Tip Speed<br>F.P.M. | S.N.D.<br>in inches | S.N.D.<br>H. P. | Volume<br>C.F.M.   | H. P. | Volume<br>C.F.M.   | H. P. | Volume<br>C.F.M.   | H. P. | Volume<br>C.F.M.   | H. P. | Volume<br>C.F.M.   | H. P. | Volume<br>C.F.M.   | H. P. | Volume<br>C.F.M.   | H. P. | Volume<br>C.F.M. | H. P. |
|--------|---------------------|---------------------|-----------------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|------------------|-------|
|        |                     |                     |                 | Static Pressure<br>1" Water<br>5.78 ozs. per<br>sq. inch |       | Static Pressure<br>2" Water<br>1.18 ozs. per<br>sq. inch |       | Static Pressure<br>3" Water<br>1.73 ozs. per<br>sq. inch |       | Static Pressure<br>4" Water<br>2.31 ozs. per<br>sq. inch |       | Static Pressure<br>5" Water<br>2.89 ozs. per<br>sq. inch |       | Static Pressure<br>6" Water<br>3.47 ozs. per<br>sq. inch |       | Static Pressure<br>7" Water<br>4.05 ozs. per<br>sq. inch |       |                  |       |
| 621    | 5000                | 1.98                | 0.23            | 3,510  | 1.45  | 1,800  | 0.87  |  |       |  |       |  |       |  |       |  |       |                  |       |
| 652    | 5250                | 2.18                | 0.27            | 3,780  | 1.75  | 2,420  | 1.20  |  |       |  |       |  |       |  |       |  |       |                  |       |
| 683    | 5500                | 2.39                | 0.31            | 4,060  | 2.05  | 2,860  | 1.50  |  |       |  |       |  |       |  |       |  |       |                  |       |
| 713    | 5750                | 2.62                | 0.36            | 4,330  | 2.50  | 3,260  | 1.85  |  |       |  |       |  |       |  |       |  |       |                  |       |
| 745    | 6000                | 2.85                | 0.40            | 4,600  | 2.80  | 3,610  | 2.2   | 1,630  | 1.25  |  |       |  |       |  |       |  |       |                  |       |
| 775    | 6250                | 3.09                | 0.46            | 4,870  | 3.20  | 3,940  | 2.6   | 2,550  | 1.85  |  |       |  |       |  |       |  |       |                  |       |
| 807    | 6500                | 3.34                | 0.51            | 5,120  | 3.60  | 4,270  | 3.0   | 3,080  | 2.35  |  |       |  |       |  |       |  |       |                  |       |
| 838    | 6750                | 3.60                | 0.57            | 5,370  | 4.1   |  |       | 3,510  | 2.80  |  |       |  |       |  |       |  |       |                  |       |
| 870    | 7000                | 3.88                | 0.64            | 5,630  | 4.6   |  |       | 3,910  | 3.30  | 2,230  | 2.20  |  |       |  |       |  |       |                  |       |
| 900    | 7250                | 4.17                | 0.71            | 5,880  | 5.1   |  |       | 4,280  | 3.85  | 3,050  | 3.0   |  |       |  |       |  |       |                  |       |
| 930    | 7500                | 4.45                | 0.79            | 6,120  | 5.8   |  |       | 4,620  | 4.40  | 3,560  | 3.6   |  |       |  |       |  |       |                  |       |
| 960    | 7750                | 4.75                | 0.87            | 6,370  | 6.4   |  |       | 4,940  | 4.95  | 4,000  | 4.2   | 2,060  | 2.60  |  |       |  |       |                  |       |
| 992    | 8000                | 5.07                | 0.96            | 6,640  | 7.2   |  |       | 5,270  | 5.7   | 4,390  | 4.9   | 3,140  | 3.75  |  |       |  |       |                  |       |
| 1022   | 8250                | 5.38                | 1.0             | 6,880  | 7.9   |  |       |  |       | 4,760  | 5.6   | 3,720  | 4.60  |  |       |  |       |                  |       |
| 1055   | 8500                | 5.71                | 1.1             | 7,100  | 8.7   |  |       |  |       | 5,100  | 6.2   | 4,190  | 5.4   | 2,310  | 3.45  |  |       |                  |       |
| 1085   | 8750                | 6.07                | 1.3             | 7,360  | 9.6   |  |       |  |       | 5,450  | 7.1   | 4,610  | 6.2   | 3,460  | 4.95  |  |       |                  |       |
| 1115   | 9000                | 6.41                | 1.4             | 7,580  | 10.5  |  |       |  |       | 5,780  | 7.9   | 5,000  | 7.0   | 4,070  | 6.1   |  |       |                  |       |
| 1150   | 9250                | 6.77                | 1.5             | 7,850  | 11.5  |  |       |  |       | 6,100  | 8.7   | 5,360  | 7.9   | 4,490  | 6.9   | 2,860  | 4.9   |                  |       |
| 1180   | 9500                | 7.14                | 1.6             | 8,070  | 12.0  |  |       |  |       |  |       | 5,670  | 8.8   | 4,920  | 7.8   | 3,790  | 6.5   |                  |       |
| 1210   | 9750                | 7.51                | 1.7             | 8,310  | 13.0  |  |       |  |       |  |       | 6,010  | 9.7   | 5,300  | 8.7   | 4,370  | 7.6   |                  |       |
| 1240   | 10000               | 7.91                | 1.9             | 8,550  | 14.5  |  |       |  |       |  |       | 6,370  | 10.5  | 5,670  | 9.7   | 4,870  | 8.7   |                  |       |
| 1275   | 10250               | 8.31                | 2.0             | 8,800  | 15.5  |  |       |  |       |  |       | 6,690  | 11.5  | 6,040  | 11.0  | 5,290  | 9.8   |                  |       |
| 1305   | 10500               | 8.71                | 2.2             | 9,020  | 17.0  |  |       |  |       |  |       |  |       | 6,390  | 12.0  | 5,670  | 11.0  |                  |       |
| 1335   | 10750               | 9.14                | 2.3             | 9,260  | 18.0  |  |       |  |       |  |       |  |       | 6,710  | 13.0  | 6,080  | 12.0  |                  |       |
| 1370   | 11000               | 9.57                | 2.5             | 9,490  | 19.5  |  |       |  |       |  |       |  |       | 7,050  | 14.5  | 6,410  | 13.5  |                  |       |
| 1400   | 11250               | 10.00               | 2.7             | 9,730  | 21.0  |  |       |  |       |  |       |  |       | 7,350  | 15.5  | 6,760  | 14.5  |                  |       |
| 1430   | 11500               | 10.46               | 2.8             | 9,950  | 22.0  |  |       |  |       |  |       |  |       |  |       | 7,110  | 16.0  |                  |       |
| 1460   | 11750               | 10.92               | 3.0             | 10,200   | 23.5  |  |       |  |       |  |       |  |       |  |       | 7,450  | 17.5  |                  |       |
| 1490   | 12000               | 11.40               | 3.2             | 10,500   | 25    |  |       |  |       |  |       |  |       |  |       | 7,760  | 19    |                  |       |

| R.P.M. | Tip Speed<br>F.P.M. | S.N.D.<br>in inches | S.N.D.<br>H. P. | Volume<br>C.F.M.   | H. P. | Volume<br>C.F.M.  | H. P. | Volume<br>C.F.M.  | H. P. | Volume<br>C.F.M.  | H. P. | Volume<br>C.F.M.  | H. P. | Volume<br>C.F.M.  | H. P. | Volume<br>C.F.M.  | H. P. | Volume<br>C.F.M. | H. P. |
|--------|---------------------|---------------------|-----------------|--|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|------------------|-------|
|        |                     |                     |                 | Static Pressure<br>8" Water<br>4.63 ozs. per<br>sq. inch |       | Static Pressure<br>9" Water<br>5.2 ozs. per<br>sq. inch |       | Static Pressure<br>10" Water<br>5.78 ozs. per<br>sq. inch |       | Static Pressure<br>11" Water<br>6.36 ozs. per<br>sq. inch |       | Static Pressure<br>12" Water<br>6.93 ozs. per<br>sq. inch |       | Static Pressure<br>13" Water<br>7.51 ozs. per<br>sq. inch |       | Static Pressure<br>14" Water<br>8.06 ozs. per<br>sq. inch |       |                  |       |
| 1240   | 10000               | 7.91                | 1.9             | 3,600  | 7.0   |   |       |   |       |   |       |   |       |   |       |   |       |                  |       |
| 1275   | 10250               | 8.31                | 2.0             | 4,300  | 8.4   |   |       |   |       |   |       |   |       |   |       |   |       |                  |       |
| 1305   | 10500               | 8.71                | 2.2             | 4,830  | 9.6   | 3,350   | 7.4   |   |       |   |       |   |       |   |       |   |       |                  |       |
| 1335   | 10750               | 9.14                | 2.3             | 5,300  | 11.0  | 4,220   | 9.2   |   |       |   |       |   |       |   |       |   |       |                  |       |
| 1370   | 11000               | 9.57                | 2.5             | 5,730  | 12.0  | 4,850   | 11.0  | 3,140   | 7.8   |   |       |   |       |   |       |   |       |                  |       |
| 1400   | 11250               | 10.00               | 2.7             | 6,100  | 13.5  | 5,350   | 12.0  | 4,200   | 10.0  |   |       |   |       |   |       |   |       |                  |       |
| 1430   | 11500               | 10.46               | 2.8             | 6,500  | 15.0  | 5,810   | 13.5  | 4,900   | 12.0  | 3,140   | 8.7   |   |       |   |       |   |       |                  |       |
| 1460   | 11750               | 10.92               | 3.0             | 6,870  | 16.0  | 6,230   | 15.0  | 5,410   | 13.5  | 4,300   | 11.5  |   |       |   |       |   |       |                  |       |
| 1490   | 12000               | 11.40               | 3.2             | 7,200  | 17.5  | 6,610   | 16.5  | 5,880   | 15.0  | 4,970   | 13.5  | 3,200   | 9.6   |   |       |   |       |                  |       |
| 1520   | 12250               | 11.87               | 3.4             | 7,550  | 19.0  | 6,950   | 18.0  | 6,310   | 16.5  | 5,550   | 15.0  | 4,410   | 13    |   |       |   |       |                  |       |
| 1550   | 12500               | 12.35               | 3.7             | 7,900  | 21.0  | 7,330   | 19.5  | 6,740   | 18.5  | 6,030   | 17.0  | 5,120   | 15    | 3,320   | 11.0  |   |       |                  |       |
| 1585   | 12750               | 12.87               | 3.9             | 8,230  | 22.5  | 7,680   | 21    | 7,100   | 20.0  | 6,500   | 18.5  | 5,680   | 17    | 4,580   | 14.5  |   |       |                  |       |
| 1612   | 13000               | 13.36               | 4.1             |  |       | 8,010   | 23    | 7,460   | 21.5  | 6,880   | 20    | 6,190   | 19    | 5,280   | 17    |   |       |                  |       |

### Single Width

**When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances**

| R.P.M. | Tip Speed<br>F.P.M. | S.N.D.<br>Inches | S.N.D.<br>H.P. | Volume<br>C.F.M.   | H. P.  | Volume<br>C.F.M.   | H. P.  | Volume<br>C.F.M.   | H. P.  | Volume<br>C.F.M.   | H. P. | Volume<br>C.F.M. | H. P. | Volume<br>C.F.M. | H. P. | Volume<br>C.F.M. | H. P. | Volume<br>C.F.M. | H. P. |
|--------|---------------------|------------------|----------------|--|--|--|--|--|--|--|-------|------------------|-------|------------------|-------|------------------|-------|------------------|-------|
|        |                     |                  |                | Static Pressure<br>1" Water<br>.578 ozs. per<br>sq. inch | Static Pressure<br>2" Water<br>1.16 ozs. per<br>sq. inch | Static Pressure<br>3" Water<br>1.73 ozs. per<br>sq. inch | Static Pressure<br>4" Water<br>2.31 ozs. per<br>sq. inch | Static Pressure<br>5" Water<br>2.89 ozs. per<br>sq. inch | Static Pressure<br>6" Water<br>3.47 ozs. per<br>sq. inch | Static Pressure<br>7" Water<br>4.05 ozs. per<br>sq. inch |       |                  |       |                  |       |                  |       |                  |       |
| 529    | 5000                | 1 98             | 0 03           | 4,540  | 1.90   | 2,320  | 1.15   |  |  |  |       |                  |       |                  |       |                  |       |                  |       |
| 556    | 5250                | 2 18             | 0 04           | 4,890  | 2.30   | 3,130  | 1.55   |  |  |  |       |                  |       |                  |       |                  |       |                  |       |
| 583    | 5500                | 2 39             | 0 04           | 5,250  | 2.70   | 3,700  | 1.95   |  |  |  |       |                  |       |                  |       |                  |       |                  |       |
| 609    | 5750                | 2 62             | 0 05           | 5,610  | 3.20   | 4,210  | 2.40   |  |  |  |       |                  |       |                  |       |                  |       |                  |       |
| 635    | 6000                | 2 85             | 0 05           | 5,950  | 3.60   | 4,660  | 2.85   | 2,110  | 1.68   |  |       |                  |       |                  |       |                  |       |                  |       |
| 663    | 6250                | 3 09             | 0 06           | 6,300  | 4.15   | 5,090  | 3.35   | 3,300  | 2.40   |  |       |                  |       |                  |       |                  |       |                  |       |
| 688    | 6500                | 3 34             | 0 07           | 6,620  | 4.7  | 5,520  | 3.9  | 3,990  | 3.00   |  |       |                  |       |                  |       |                  |       |                  |       |
| 714    | 6750                | 3 60             | 0 07           | 6,950  | 5.3  |  |  | 4,580  | 3.65   |  |       |                  |       |                  |       |                  |       |                  |       |
| 741    | 7000                | 3 88             | 0 08           | 7,270  | 5.9  |  |  | 5,050  | 4.30   | 2,890  | 2.85  |                  |       |                  |       |                  |       |                  |       |
| 767    | 7250                | 4.17             | 0 09           | 7,590  | 6.6  |  |  | 5,540  | 4.95   | 3,940  | 3.85  |                  |       |                  |       |                  |       |                  |       |
| 795    | 7500                | 4.45             | 0 10           | 7,910  | 7.5  |  |  | 5,970  | 5.7  | 4,610  | 4.65  |                  |       |                  |       |                  |       |                  |       |
| 820    | 7750                | 4.75             | 0 11           | 8,240  | 8.3  |  |  | 6,380  | 6.4  | 5,170  | 5.5   | 2,660            | 3.35  |                  |       |                  |       |                  |       |
| 848    | 8000                | 5.07             | 0 12           | 8,580  | 9.3  |  |  | 6,810  | 7.4  | 5,680  | 6.3   | 4,060            | 4.85  |                  |       |                  |       |                  |       |
| 875    | 8250                | 5.38             | 0 14           | 8,890  | 10.0   |  |  |  |  | 6,150  | 7.2   | 4,810            | 6.00  |                  |       |                  |       |                  |       |
| 900    | 8500                | 5.71             | 0 15           | 9,170  | 11.5   |  |  |  |  | 6,600  | 8.1   | 5,410            | 6.9   | 2,990            | 4.5   |                  |       |                  |       |
| 927    | 8750                | 6.07             | 0 16           | 9,520  | 12.5   |  |  |  |  | 7,050  | 9.2   | 5,970            | 8.0   | 4,470            | 6.4   |                  |       |                  |       |
| 955    | 9000                | 6.41             | 0 18           | 9,800  | 13.5   |  |  |  |  | 7,470  | 10    | 6,470            | 9.1   | 5,260            | 7.8   |                  |       |                  |       |
| 980    | 9250                | 6.77             | 0 19           | 10,200   | 14.5   |  |  |  |  | 7,860  | 11    | 6,930            | 10.0  | 5,810            | 8.9   | 3,700            | 6.4   |                  |       |
| 1005   | 9500                | 7.14             | 0 21           | 10,500   | 16.0   |  |  |  |  |  |       | 7,340            | 11.5  | 6,360            | 10.0  | 4,900            | 8.4   |                  |       |
| 1030   | 9750                | 7.51             | 0 22           | 10,800   | 17.0   |  |  |  |  |  |       | 7,800            | 12.5  | 6,800            | 11.5  | 5,600            | 9.8   |                  |       |
| 1060   | 10000               | 7.91             | 0 24           | 11,100   | 18.5   |  |  |  |  |  |       | 8,240            | 14    | 7,340            | 12.5  | 6,300            | 11.5  |                  |       |
| 1085   | 10250               | 8.31             | 0 26           | 11,400   | 20.0   |  |  |  |  |  |       | 8,650            | 15    | 7,810            | 14.0  | 6,850            | 12.5  |                  |       |
| 1115   | 10500               | 8.71             | 0 28           | 11,700   | 22.0   |  |  |  |  |  |       |                  |       | 8,250            | 15.5  | 7,340            | 14.0  |                  |       |
| 1140   | 10750               | 9.14             | 0 30           | 12,000   | 23.5   |  |  |  |  |  |       |                  |       | 8,690            | 17.0  | 7,850            | 15.5  |                  |       |
| 1165   | 11000               | 9.57             | 0 32           | 12,300   | 25   |  |  |  |  |  |       |                  |       | 9,110            | 18.5  | 8,290            | 17.0  |                  |       |
| 1195   | 11250               | 10.00            | 0 35           | 12,600   | 27   |  |  |  |  |  |       |                  |       | 9,510            | 20    | 8,740            | 18.5  |                  |       |
| 1215   | 11500               | 10.46</          |                |  |  |  |  |  |  |  |       |                  |       |                  |       |                  |       |                  |       |

### Single Width

**When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances**

| R.P.M. | Tip Speed<br>F.P.M. | S.N.D.<br>in inches | S.N.D.<br>H.P. | Volume<br>C.F.M.   | H. P.  | Volume<br>C.F.M.   | H. P.  | Volume<br>C.F.M.   | H. P.  | Volume<br>C.F.M.   | H. P. | Volume<br>C.F.M. | H. P. | Volume<br>C.F.M. | H. P. | Volume<br>C.F.M. | H. P. | Volume<br>C.F.M. | H. P. |
|--------|---------------------|---------------------|----------------|--|--|--|--|--|--|--|-------|------------------|-------|------------------|-------|------------------|-------|------------------|-------|
|        |                     |                     |                | Static Pressure<br>1" Water<br>.878 ozs. per<br>sq. inch | Static Pressure<br>2" Water<br>1.16 ozs. per<br>sq. inch | Static Pressure<br>3" Water<br>1.73 ozs. per<br>sq. inch | Static Pressure<br>4" Water<br>2.31 ozs. per<br>sq. inch | Static Pressure<br>5" Water<br>2.89 ozs. per<br>sq. inch | Static Pressure<br>6" Water<br>3.47 ozs. per<br>sq. inch | Static Pressure<br>7" Water<br>4.05 ozs. per<br>sq. inch |       |                  |       |                  |       |                  |       |                  |       |
| 476    | 5000                | 1 98                | 0 43           | 6,360  | 2 65   | 3,260  | 1 60   |  |  |  |       |                  |       |                  |       |                  |       |                  |       |
| 500    | 5250                | 2 18                | 0 49           | 6,800  | 3 20   | 4,390  | 2 20   |  |  |  |       |                  |       |                  |       |                  |       |                  |       |
| 523    | 5500                | 2 39                | 0 56           | 7,350  | 3 75   | 5,180  | 2 75   |  |  |  |       |                  |       |                  |       |                  |       |                  |       |
| 548    | 5750                | 2 62                | 0 65           | 7,800  | 4 50   | 5,900  | 3 4  |  |  |  |       |                  |       |                  |       |                  |       |                  |       |
| 571    | 6000                | 2 85                | 0 73           | 8,350  | 5 0  | 6,510  | 4 0  | 2,950  | 2 20   |  |       |                  |       |                  |       |                  |       |                  |       |
| 595    | 6250                | 3 09                | 0 83           | 8,820  | 5 8  | 7,140  | 4 7  | 4,620  | 3 40   |  |       |                  |       |                  |       |                  |       |                  |       |
| 619    | 6500                | 3 31                | 0 93           | 9,280  | 6 6  | 7,740  | 5 5  | 5,590  | 4 25   |  |       |                  |       |                  |       |                  |       |                  |       |
| 642    | 6750                | 3 60                | 1 0            | 9,740  | 7 1  |  |  | 6,110  | 5 1  |  |       |                  |       |                  |       |                  |       |                  |       |
| 666    | 7000                | 3 88                | 1 2            | 10,200   | 8 3  |  |  | 7,080  | 6 0  | 4,050  | 3 95  |                  |       |                  |       |                  |       |                  |       |
| 690    | 7250                | 4 17                | 1 3            | 10,700   | 9 3  |  |  | 7,750  | 7 0  | 5,520  | 5 4   |                  |       |                  |       |                  |       |                  |       |
| 711    | 7500                | 4 45                | 1 4            | 11,100   | 10 5   |  |  | 8,360  | 8 0  | 6,460  | 6 5   |                  |       |                  |       |                  |       |                  |       |
| 738    | 7750                | 4 75                | 1 6            | 11,600   | 11 5   |  |  | 8,910  | 9 0  | 7,250  | 7 6   | 3,710            | 4 7   |                  |       |                  |       |                  |       |
| 762    | 8000                | 5 07                | 1 7            | 12,000   | 13 0   |  |  | 9,550  | 10 5   | 7,950  | 8 8   | 5,690            | 6 8   |                  |       |                  |       |                  |       |
| 785    | 8250                | 5 38                | 1 9            | 12,500   | 14 5   |  |  |  |  | 8,630  | 10 0  | 6,750            | 8 4   |                  |       |                  |       |                  |       |
| 810    | 8500                | 5 71                | 2 1            | 12,900   | 16 0   |  |  |  |  | 9,250  | 11 5  | 7,590            | 9 7   | 4,180            | 6 3   |                  |       |                  |       |
| 832    | 8750                | 6 07                | 2 3            | 13,400   | 17 5   |  |  |  |  | 9,890  | 13 0  | 8,350            | 11 0  | 6,270            | 8 9   |                  |       |                  |       |
| 856    | 9000                | 6 41                | 2 5            | 13,800   | 19 0   |  |  |  |  | 10,500   | 14 5  | 9,050            | 12 5  | 7,380            | 11 0  | 5,180            | 8 9   |                  |       |
| 881    | 9250                | 6 77                | 2 7            | 14,200   | 20 5   |  |  |  |  | 11,000   | 15 5  | 9,710            | 14 5  | 8,150            | 12 5  | 6,860            | 11 5  |                  |       |
| 905    | 9500                | 7 14                | 2 9            | 14,600   | 22   |  |  |  |  |  |       | 10,300           | 16 0  | 8,910            | 14 0  | 7,920            | 14 0  |                  |       |
| 929    | 9750                | 7 51                | 3 1            | 15,100   | 24   |  |  |  |  |  |       | 11,000           | 17 5  | 9,620            | 16 0  | 8,810            | 16 0  |                  |       |
| 955    | 10000               | 7 91                | 3 4            | 15,500   | 26   |  |  |  |  |  |       | 11,600           | 19 5  | 10,300           | 17 5  | 9,590            | 17 5  |                  |       |
| 975    | 10250               | 8 31                | 3 6            | 16,000   | 28   |  |  |  |  |  |       | 12,100           | 21    | 10,900           | 19 5  | 10,300           | 19 5  |                  |       |
| 1000   | 10500               | 8 71                | 3 9            | 16,300   | 31   |  |  |  |  |  |       |                  |       | 11,600           | 21 5  | 11,000           | 21 5  |                  |       |
| 1020   | 10750               | 9 11                | 4 2            | 16,800   | 33   |  |  |  |  |  |       |                  |       | 12,200           | 24    | 12,800           | 26    |                  |       |
| 1050   | 11000               | 9 57                | 4 5            | 17,200   | 35   |  |  |  |  |  |       |                  |       |                  |       | 13,300           | 28    |                  |       |
| 1070   | 11250               | 10 00               | 4 8            | 17,700   | 38   |  |  |  |  |  |       |                  |       |                  |       |                  |       |                  |       |
| 1100   | 11500               | 10 40               | 5 2            | 18,100   | 40   |  |  |  |  |  |       |                  |       |                  |       |                  |       |                  |       |
| 1120   | 11750               | 10 92               | 5 5            | 18,500   | 43   |  |  |  |  |  |       |                  |       |                  |       |                  |       |                  |       |
| 1145   | 12000               | 11 10               | 5 8            | 19,000   | 45   |  |  |  |  |  |       |                  |       |                  |       |                  |       |                  |       |

| R.P.M. | Tip Speed<br>F.P.M. | S.N.D.<br>in inches | S.N.D.<br>H.P. | Volume<br>C.F.M.   | H. P.   | Volume<br>C.F.M.  | H. P.   | Volume<br>C.F.M.  | H. P.   | Volume<br>C.F.M.  | H. P. | Volume<br>C.F.M. | H. P. | Volume<br>C.F.M. | H. P. | Volume<br>C.F.M. | H. P. | Volume<br>C.F.M. | H. P. |
|--------|---------------------|---------------------|----------------|--|---|---|---|---|---|---|-------|------------------|-------|------------------|-------|------------------|-------|------------------|-------|
|        |                     |                     |                | Static Pressure<br>8" Water<br>4.63 ozs. per<br>sq. inch | Static Pressure<br>9" Water<br>5.2 ozs. per<br>sq. inch | Static Pressure<br>10" Water<br>5.78 ozs. per<br>sq. inch | Static Pressure<br>11" Water<br>6.36 ozs. per<br>sq. inch | Static Pressure<br>12" Water<br>6.93 ozs. per<br>sq. inch | Static Pressure<br>13" Water<br>7.51 ozs. per<br>sq. inch | Static Pressure<br>14" Water<br>8.08 ozs. per<br>sq. inch |       |                  |       |                  |       |                  |       |                  |       |
| 955    | 10000               | 7 91                | 0 34           | 6,520  | 12 5  |   |   |   |   |   |       |                  |       |                  |       |                  |       |                  |       |
| 975    | 10250               | 8 31                | 0 36           | 7,780  | 15 5  |   |   |   |   |   |       |                  |       |                  |       |                  |       |                  |       |
| 1000   | 10500               | 8 71                | 0 39           | 8,750  | 17 0  | 6,070   | 13 5  |   |   |   |       |                  |       |                  |       |                  |       |                  |       |
| 1020   | 10750               | 9 14                | 0 42           | 9,600  | 19 6  | 7,620   | 16 5  |   |   |   |       |                  |       |                  |       |                  |       |                  |       |
| 1050   | 11000               | 9 57                | 0 45           | 10,400   | 22  | 8,780   | 19 5  | 5,690   | 11 0  |   |       |                  |       |                  |       |                  |       |                  |       |
| 1070   | 11250               | 10 00               | 0 48           | 11,100   | 24  | 9,700   | 22 0  | 7,600   | 18 5  |   |       |                  |       |                  |       |                  |       |                  |       |
| 1100   | 11500               | 10 46               | 0 52           | 11,800   | 27  | 10,500  | 24 5  | 8,870   | 22 0  | 5,690   | 15 5  |                  |       |                  |       |                  |       |                  |       |
| 1120   | 11750               | 10 92               | 0 55           | 12,500   | 29  | 11,300  | 27  | 9,850   | 21 5  | 7,780   | 20 5  |                  |       |                  |       |                  |       |                  |       |
| 1145   | 12000               | 11 40               | 0 58           | 13,100   | 32  | 12,000  | 30  | 10,600  | 28  | 9,010   | 21 0  | 5,790            | 17 5  |                  |       |                  |       |                  |       |
| 1170   | 12250               | 11 87               | 0 62           | 13,700   | 35  | 12,600  | 32  | 11,400  | 30  | 10,100  | 27    | 7,980            | 23 0  |                  |       |                  |       |                  |       |
| 1195   | 12500               | 12 35               | 0 66           | 14,300   | 38  | 13,300  | 35  | 12,200  | 33  | 11,000  | 31    | 9,250            | 27    | 6,030            | 19 5  |                  |       |                  |       |
| 1215   | 12750               | 12 87               | 0 70           | 14,900   | 41  | 13,900  | 38  | 12,800  | 36  | 11,800  | 34    | 10,300           | 31    | 8,300            | 26    |                  |       |                  |       |
| 1240   | 13000               | 13 36               | 0 74           |  |   | 14,500  | 42  | 13,500  | 39  | 12,500  | 37    | 11,200           | 34    | 9,550            | 30    |                  |       |                  |       |

### Single Width

**When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances**

| R.P.M. | Tip Speed<br>F.P.M. | S.N.D.<br>in inches | S.N.D.<br>H.P. | Volume   | H. P. | Volume   | H. P. | Volume   | H. P. | Volume   | H. P. | Volume   | H. P. | Volume   | H. P. | Volume   | H. P. |
|--------|---------------------|---------------------|----------------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|
|        |                     |                     |                | C.F.M.   |       | C.F.M.   |       | C.F.M.   |       | C.F.M.   |       | C.F.M.   |       | C.F.M.   |       | C.F.M.   |       |
|        |                     |                     |                | Static Pressure<br>1" Water<br>.578 oza. per<br>sq. inch |       | Static Pressure<br>2" Water<br>1.16 oza. per<br>sq. inch |       | Static Pressure<br>3" Water<br>1.73 oza. per<br>sq. inch |       | Static Pressure<br>4" Water<br>2.31 oza. per<br>sq. inch |       | Static Pressure<br>5" Water<br>2.89 oza. per<br>sq. inch |       | Static Pressure<br>6" Water<br>3.47 oza. per<br>sq. inch |       | Static Pressure<br>7" Water<br>4.05 oza. per<br>sq. inch |       |
| 397    | 5000                | 1 98                | 0 54           | 8,140  | 3.40  | 4,160  | 2 0   |  |       |  |       |  |       |  |       |  |       |
| 417    | 5250                | 2 18                | 0 63           | 8,760  | 4 05  | 5,600  | 2 8   |  |       |  |       |  |       |  |       |  |       |
| 437    | 5500                | 2 39                | 0 72           | 9,400  | 5 18  | 6,630  | 3 5   |  |       |  |       |  |       |  |       |  |       |
| 457    | 5750                | 2 62                | 0 82           | 10,000   | 5 8   | 7,550  | 4 3   |  |       |  |       |  |       |  |       |  |       |
| 477    | 6000                | 2 85                | 0 94           | 10,700   | 6 4   | 8,350  | 5 1   | 3,770  | 2 85  |  |       |  |       |  |       |  |       |
| 497    | 6250                | 3 09                | 1 1            | 11,300   | 7 5   | 9,110  | 6     | 5,910  | 4 35  |  |       |  |       |  |       |  |       |
| 517    | 6500                | 3 31                | 1 2            | 11,900   | 8 4   | 9,880  | 7     | 7,150  | 5 4   |  |       |  |       |  |       |  |       |
| 537    | 6750                | 3 60                | 1 3            | 12,400   | 9 5   |  |       | 8,190  | 6 5   |  |       |  |       |  |       |  |       |
| 557    | 7000                | 3 88                | 1 5            | 13,000   | 10 5  |  |       | 9,050  | 7 7   | 5,180  | 5 1   |  |       |  |       |  |       |
| 577    | 7250                | 4 17                | 1 6            | 13,600   | 12 0  |  |       | 9,910  | 8 9   | 7,050  | 6 9   |  |       |  |       |  |       |
| 596    | 7500                | 4 45                | 1 8            | 14,200   | 13 5  |  |       | 10,700   | 10 0  | 8,250  | 8 3   |  |       |  |       |  |       |
| 615    | 7750                | 4 75                | 2 0            | 14,800   | 15 0  |  |       | 11,400   | 11 5  | 9,270  | 9 8   | 4,770  | 6 0   |  |       |  |       |
| 635    | 8000                | 5 07                | 2 2            | 15,400   | 16 5  |  |       | 12,200   | 13 5  | 10,200   | 11 5  | 7,260  | 8 7   |  |       |  |       |
| 655    | 8250                | 5 38                | 2 4            | 16,000   | 18 5  |  |       |  |       | 11,000   | 13 0  | 8,630  | 10 5  |  |       |  |       |
| 675    | 8500                | 5 71                | 2 7            | 16,600   | 20    |  |       |  |       | 11,800   | 14 5  | 9,700  | 12 5  | 5,350  | 8 0   |  |       |
| 695    | 8750                | 6 07                | 2 9            | 17,100   | 22    |  |       |  |       | 12,600   | 16 5  | 10,700   | 14 5  | 8,000  | 11 5  |  |       |
| 715    | 9000                | 6 41                | 3 2            | 17,600   | 24    |  |       |  |       | 13,400   | 18.5  | 11,600   | 16.5  | 9,420  | 14 0  |  |       |
| 735    | 9250                | 6 77                | 3 4            | 18,200   | 26    |  |       |  |       | 14,100   | 20    | 12,100   | 18 5  | 10,400   | 16 0  | 6,630  | 11.5  |
| 755    | 9500                | 7 14                | 3 7            | 18,700   | 28    |  |       |  |       |  |       | 13,200   | 20 5  | 11,400   | 18 0  | 8,780  | 15 0  |
| 775    | 9750                | 7 51                | 4 0            | 19,300   | 31    |  |       |  |       |  |       | 14,000   | 22.5  | 12,300   | 20 0  | 10,100   | 17 5  |
| 795    | 10000               | 7 91                | 4 3            | 19,800   | 33    |  |       |  |       |  |       | 14,800   | 25    | 13,200   | 22 5  | 11,300   | 20.0  |
| 815    | 10250               | 8 31                | 4 7            | 20,400   | 36    |  |       |  |       |  |       | 15,500   | 27    | 14,000   | 25    | 12,300   | 22 5  |
| 835    | 10500               | 8 71                | 5 0            | 20,900   | 39    |  |       |  |       |  |       |  |       | 14,800   | 28    | 13,200   | 25    |
| 855    | 10750               | 9 14                | 5 4            | 21,400   | 42    |  |       |  |       |  |       |  |       | 15,000   | 30    | 14,100   | 28    |
| 875    | 11000               | 9 57                | 5 8            | 22,000   | 45    |  |       |  |       |  |       |  |       | 16,300   | 33    | 14,900   | 31    |
| 895    | 11250               | 10 00               | 6 2            | 22,600   | 48    |  |       |  |       |  |       |  |       | 17,000   | 36    | 15,700   | 34    |
| 915    | 11500               | 10 46               | 6 6            | 23,100   | 52    |  |       |  |       |  |       |  |       |  |       | 16,500   | 37    |
| 935    | 11750               | 10 92               | 7 0            | 23,600   | 54    |  |       |  |       |  |       |  |       |  |       | 17,300   | 40    |
| 955    | 12000               | 11 4                | 7 5            | 24,200   | 58    |  |       |  |       |  |       |  |       |  |       | 18,000   | 43    |

| R.P.M. | Tip Speed<br>F.P.M. | S.N.D.<br>in inches | S.N.D.<br>H.P. | Volume   | H. P. | Volume  | H. P. | Volume  | H. P. | Volume  | H. P. | Volume  | H. P. | Volume  | H. P. | Volume  | H. P. |
|--------|---------------------|---------------------|----------------|--|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|
|        |                     |                     |                | C.F.M.   |       | C.F.M.  |       | C.F.M.  |       | C.F.M.  |       | C.F.M.  |       | C.F.M.  |       | C.F.M.  |       |
|        |                     |                     |                | Static Pressure<br>8" Water<br>4.63 oza. per<br>sq. inch |       | Static Pressure<br>9" Water<br>5.2 oza. per<br>sq. inch |       | Static Pressure<br>10" Water<br>5.78 oza. per<br>sq. inch |       | Static Pressure<br>11" Water<br>6.36 oza. per<br>sq. inch |       | Static Pressure<br>12" Water<br>6.93 oza. per<br>sq. inch |       | Static Pressure<br>13" Water<br>7.51 oza. per<br>sq. inch |       | Static Pressure<br>14" Water<br>8.08 oza. per<br>sq. inch |       |
| 795    | 10000               | 7 91                | 4 3            | 8,310  | 16 0  |   |       |   |       |   |       |   |       |   |       |   |       |
| 815    | 10250               | 8 31                | 4 7            | 9,950  | 19 5  |   |       |   |       |   |       |   |       |   |       |   |       |
| 835    | 10500               | 8 71                | 5 0            | 11,200   | 22.5  | 7,770   | 17.0  |   |       |   |       |   |       |   |       |   |       |
| 855    | 10750               | 9 14                | 5 4            | 12,300   | 25    | 9,740   | 21 5  |   |       |   |       |   |       |   |       |   |       |
| 875    | 11000               | 9 57                | 5 8            | 13,200   | 28    | 11,200  | 25    | 7,270   | 18.0  |   |       |   |       |   |       |   |       |
| 895    | 11250               | 10 00               | 6 2            | 14,100   | 31    | 12,400  | 28    | 9,700   | 23.5  |   |       |   |       |   |       |   |       |
| 915    | 11500               | 10 46               | 6 6            | 15,000   | 34    | 13,400  | 31    | 11,300  | 28    | 7,270   | 20    |   |       |   |       |   |       |
| 935    | 11750               | 10 92               | 7 0            | 15,900   | 37    | 14,400  | 35    | 12,600  | 31    | 9,950   | 26    |   |       |   |       |   |       |
| 955    | 12000               | 11 40               | 7 5            | 16,700   | 41    | 15,300  | 38    | 13,600  | 35    | 11,500  | 31    | 7,400   | 22    |   |       |   |       |
| 975    | 12250               | 11 87               | 8 0            | 17,500   | 44    | 16,100  | 42    | 14,600  | 39    | 12,800  | 35    | 10,200  | 30    |   |       |   |       |
| 995    | 12500               | 12 35               | 8 5            | 18,300   | 48    | 17,100  | 45    | 15,600  | 42    | 14,000  | 39    | 11,800  | 35    | 7,700   | 25    |   |       |
| 1015   | 12750               | 12 87               | 9 0            | 19,100   | 52    | 17,800  | 49    | 16,400  | 46    | 15,000  | 43    | 13,200  | 39    | 10,600  | 33    |   |       |
| 1035   | 13000               | 13 36               | 9 5            |  |       | 18,600  | 52    | 17,300  | 50    | 15,900  | 47    | 14,300  | 43    | 12,200  | 39    |   |       |



**Double Inlet    No. 0000 Monogram Fan — Design 2    Single Width**  
**When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances.**

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | S.N.D. H.P. | Volume C.F.M.                                   | H. P. | Volume C.F.M.                                   | H. P. | Volume C.F.M.                                   | H. P. | Volume C.F.M.                                   | H. P. | Volume C.F.M.                                   | H. P. | Volume C.F.M.                                   | H. P. | Volume C.F.M.                                   | H. P. |
|--------|------------------|------------------|-------------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|
|        |                  |                  |             | Static Pressure 1" Water .578 ozs. per sq. inch |       | Static Pressure 2" Water 1.16 ozs. per sq. inch |       | Static Pressure 3" Water 1.73 ozs. per sq. inch |       | Static Pressure 4" Water 2.31 ozs. per sq. inch |       | Static Pressure 5" Water 2.89 ozs. per sq. inch |       | Static Pressure 6" Water 3.47 ozs. per sq. inch |       | Static Pressure 7" Water 4.05 ozs. per sq. inch |       |
| 3180   | 5000             | 1.93             | 0.01        | 103   | 0.045 |   |       |   |       |   |       |   |       |   |       |   |       |
| 3340   | 5250             | 2.12             | 0.01        | 113   | 0.053 | 53  | 0.032 |   |       |   |       |   |       |   |       |   |       |
| 3500   | 5500             | 2.33             | 0.02        | 123   | 0.063 | 60  | 0.043 |   |       |   |       |   |       |   |       |   |       |
| 3650   | 5750             | 2.55             | 0.02        | 132   | 0.073 | 85  | 0.055 |   |       |   |       |   |       |   |       |   |       |
| 3810   | 6000             | 2.77             | 0.02        | 141   | 0.083 | 98  | 0.067 |   |       |   |       |   |       |   |       |   |       |
| 3970   | 6250             | 3.01             | 0.02        | 149   | 0.094 | 109   | 0.079 | 50  | 0.046 |   |       |   |       |   |       |   |       |
| 4130   | 6500             | 3.25             | 0.03        | 158   | 0.105 | 121   | 0.093 | 70  | 0.063 |   |       |   |       |   |       |   |       |
| 4300   | 6750             | 3.51             | 0.03        | 167   | 0.120 | 132   | 0.105 | 87  | 0.081 |   |       |   |       |   |       |   |       |
| 4450   | 7000             | 3.77             | 0.03        | 176   | 0.135 | 143   | 0.125 | 101   | 0.097 |   |       |   |       |   |       |   |       |
| 4600   | 7250             | 4.05             | 0.04        | 183   | 0.150 | 153   | 0.140 | 115   | 0.115 | 58  | 0.072 |   |       |   |       |   |       |
| 4770   | 7500             | 4.34             | 0.04        | 192   | 0.170 | 162   | 0.155 | 127   | 0.135 | 81  | 0.093 |   |       |   |       |   |       |
| 4930   | 7750             | 4.63             | 0.04        | 200   | 0.190 | 172   | 0.175 | 139   | 0.155 | 98  | 0.115 |   |       |   |       |   |       |

**Double Inlet    No. 00 Monogram Fan — Design 2    Single Width**  
**When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances.**

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | S.N.D. H.P. | Volume C.F.M.                                   | H. P. | Volume C.F.M.                                   | H. P. | Volume C.F.M.                                   | H. P. | Volume C.F.M.                                   | H. P. | Volume C.F.M.                                   | H. P. | Volume C.F.M.                                   | H. P. | Volume C.F.M.                                   | H. P. |
|--------|------------------|------------------|-------------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|
|        |                  |                  |             | Static Pressure 1" Water .578 ozs. per sq. inch |       | Static Pressure 2" Water 1.16 ozs. per sq. inch |       | Static Pressure 3" Water 1.73 ozs. per sq. inch |       | Static Pressure 4" Water 2.31 ozs. per sq. inch |       | Static Pressure 5" Water 2.89 ozs. per sq. inch |       | Static Pressure 6" Water 3.47 ozs. per sq. inch |       | Static Pressure 7" Water 4.05 ozs. per sq. inch |       |
| 2310   | 5000             | 1.93             | 0.03        | 232   | 0.100 |   |       |   |       |   |       |   |       |   |       |   |       |
| 2430   | 5250             | 2.12             | 0.03        | 255   | 0.120 | 121   | 0.072 |   |       |   |       |   |       |   |       |   |       |
| 2540   | 5500             | 2.33             | 0.04        | 278   | 0.145 | 157   | 0.098 |   |       |   |       |   |       |   |       |   |       |
| 2690   | 5750             | 2.55             | 0.04        | 298   | 0.165 | 192   | 0.125 |   |       |   |       |   |       |   |       |   |       |
| 2780   | 6000             | 2.77             | 0.05        | 318   | 0.185 | 221   | 0.150 |   |       |   |       |   |       |   |       |   |       |
| 2890   | 6250             | 3.01             | 0.05        | 338   | 0.215 | 247   | 0.180 | 112   | 0.105 |   |       |   |       |   |       |   |       |
| 3010   | 6500             | 3.25             | 0.06        | 358   | 0.245 | 274   | 0.210 | 159   | 0.145 |   |       |   |       |   |       |   |       |
| 3120   | 6750             | 3.51             | 0.07        | 378   | 0.275 | 298   | 0.245 | 198   | 0.185 |   |       |   |       |   |       |   |       |
| 3240   | 7000             | 3.77             | 0.07        | 398   | 0.305 | 322   | 0.280 | 229   | 0.220 |   |       |   |       |   |       |   |       |
| 3300   | 7250             | 4.05             | 0.08        | 415   | 0.340 | 345   | 0.315 | 260   | 0.260 | 130   | 0.165 |   |       |   |       |   |       |
| 3470   | 7500             | 4.34             | 0.09        | 535   | 0.380 | 367   | 0.350 | 288   | 0.305 | 183   | 0.210 |   |       |   |       |   |       |
| 3580   | 7750             | 4.63             | 0.10        | 454   | 0.425 | 389   | 0.395 | 314   | 0.350 | 221   | 0.265 |   |       |   |       |   |       |
| 3700   | 8000             | 4.93             | 0.11        | 470   | 0.47  |   |       | 339   | 0.395 | 254   | 0.320 | 126   | 0.205 |   |       |   |       |
| 3820   | 8250             | 5.25             | 0.12        | 490   | 0.52  |   |       | 364   | 0.445 | 286   | 0.375 | 184   | 0.275 |   |       |   |       |
| 3930   | 8500             | 5.56             | 0.13        | 508   | 0.57  |   |       | 388   | 0.495 | 312   | 0.435 | 224   | 0.335 |   |       |   |       |
| 4050   | 8750             | 5.90             | 0.14        | 525   | 0.63  |   |       | 411   | 0.55  | 342   | 0.49  | 260   | 0.40  | 135   | 0.265 |   |       |
| 4170   | 9000             | 6.23             | 0.15        | 543   | 0.68  |   |       | 433   | 0.60  | 367   | 0.55  | 291   | 0.46  | 191   | 0.345 |   |       |
| 4280   | 9250             | 6.60             | 0.17        | 561   | 0.74  |   |       | 456   | 0.67  | 394   | 0.62  | 322   | 0.53  | 235   | 0.420 |   |       |
| 4400   | 9500             | 6.95             | 0.19        | 579   | 0.79  |   |       | 477   | 0.73  | 417   | 0.68  | 352   | 0.61  | 271   | 0.495 | 158   | 0.355 |
| 4510   | 9750             | 7.33             | 0.20        | 597   | 0.86  |   |       |   |       | 442   | 0.75  | 378   | 0.68  | 307   | 0.58  | 214   | 0.45  |
| 4630   | 10000            | 7.70             | 0.22        | 615   | 0.93  |   |       |   |       | 465   | 0.82  | 404   | 0.75  | 336   | 0.66  | 254   | 0.53  |
| 4750   | 10250            | 8.10             | 0.23        | 632   | 1.00  |   |       |   |       | 488   | 0.89  | 430   | 0.83  | 367   | 0.74  | 292   | 0.63  |
| 4860   | 10500            | 8.50             | 0.25        | 648   | 1.10  |   |       |   |       | 510   | 0.96  | 455   | 0.90  | 395   | 0.82  | 326   | 0.72  |
| 4980   | 10750            | 8.90             | 0.27        | 665   | 1.15  |   |       |   |       | 532   | 1.05  | 480   | 0.98  | 421   | 0.91  | 358   | 0.81  |





Double Inlet

**No. 2 Monogram Fan—Design 2**

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed<br>F.P.M. | S.N.D.<br>in<br>inches | S.N.D.<br>H.P. | Volume<br>C.F.M.   | H. P. | Volume<br>C.F.M.   | H. P. | Volume<br>C.F.M.   | H. P. | Volume<br>C.F.M.   | H. P. | Volume<br>C.F.M.   | H. P. | Volume<br>C.F.M.   | H. P. | Volume<br>C.F.M.   | H. P. |
|--------|---------------------|------------------------|----------------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|
|        |                     |                        |                | Static Pressure<br>1" Water<br>5.78 ozs. per<br>sq. inch |       | Static Pressure<br>2" Water<br>1.16 ozs. per<br>sq. inch |       | Static Pressure<br>3" Water<br>1.73 ozs. per<br>sq. inch |       | Static Pressure<br>4" Water<br>2.31 ozs. per<br>sq. inch |       | Static Pressure<br>5" Water<br>2.89 ozs. per<br>sq. inch |       | Static Pressure<br>6" Water<br>3.47 ozs. per<br>sq. inch |       | Static Pressure<br>7" Water<br>4.05 ozs. per<br>sq. inch |       |
| 1090   | 3500                | 0.939                  | 0.05           | 220  | 0.056 |  |       |  |       |  |       |  |       |  |       |  |       |
| 1169   | 3750                | 1.08                   | 0.06           | 377  | 1.110 |  |       |  |       |  |       |  |       |  |       |  |       |
| 1248   | 4000                | 1.23                   | 0.07           | 486  | 0.170 |  |       |  |       |  |       |  |       |  |       |  |       |
| 1322   | 4250                | 1.39                   | 0.08           | 577  | 0.250 |  |       |  |       |  |       |  |       |  |       |  |       |
| 1402   | 4500                | 1.55                   | 0.10           | 656  | 0.315 |  |       |  |       |  |       |  |       |  |       |  |       |
| 1559   | 5000                | 1.92                   | 0.13           |  |       | 354  | 0.180 |  |       |  |       |  |       |  |       |  |       |
| 1635   | 5250                | 2.11                   | 0.15           |  |       | 501  | 0.280 |  |       |  |       |  |       |  |       |  |       |
| 1712   | 5500                | 2.31                   | 0.18           |  |       | 616  | 0.395 |  |       |  |       |  |       |  |       |  |       |
| 1790   | 5750                | 2.54                   | 0.21           |  |       | 726  | 0.54  |  |       |  |       |  |       |  |       |  |       |
| 1870   | 6000                | 2.76                   | 0.23           |  |       | 810  | 0.69  | 303  | 0.24  |  |       |  |       |  |       |  |       |
| 1948   | 6250                | 2.99                   | 0.26           |  |       | 895  | 0.88  | 517  | 0.41  |  |       |  |       |  |       |  |       |
| 2022   | 6500                | 3.24                   | 0.30           |  |       |  |       | 656  | 0.58  |  |       |  |       |  |       |  |       |
| 2100   | 6750                | 3.50                   | 0.33           |  |       |  |       | 706  | 0.74  |  |       |  |       |  |       |  |       |
| 2180   | 7000                | 3.75                   | 0.37           |  |       |  |       | 868  | 0.94  | 433  | 0.44  |  |       |  |       |  |       |
| 2260   | 7250                | 4.02                   | 0.41           |  |       |  |       | 961  | 1.15  | 619  | 0.66  |  |       |  |       |  |       |
| 2340   | 7500                | 4.31                   | 0.45           |  |       |  |       | 1,050  | 1.45  | 754  | 0.88  |  |       |  |       |  |       |
| 2417   | 7750                | 4.60                   | 0.50           |  |       |  |       | 1,120  | 1.7   | 866  | 1.10  | 403  | 0.53  |  |       |  |       |
| 2490   | 8000                | 4.90                   | 0.55           |  |       |  |       |  |       | 973  | 1.35  | 626  | 0.81  |  |       |  |       |
| 2570   | 8250                | 5.21                   | 0.61           |  |       |  |       |  |       | 1,070  | 1.65  | 774  | 1.05  |  |       |  |       |
| 2650   | 8500                | 5.52                   | 0.67           |  |       |  |       |  |       | 1,150  | 1.95  | 891  | 1.35  | 444  | 0.70  |  |       |
| 2722   | 8750                | 5.88                   | 0.72           |  |       |  |       |  |       | 1,240  | 2.35  | 1,010  | 1.65  | 685  | 1.05  |  |       |
| 2800   | 9000                | 6.20                   | 0.79           |  |       |  |       |  |       |  |       | 1,110  | 1.95  | 829  | 1.35  |  |       |
| 2880   | 9250                | 6.55                   | 0.85           |  |       |  |       |  |       |  |       | 1,200  | 2.35  | 960  | 1.70  | 566  | 1.00  |
| 2960   | 9500                | 6.91                   | 0.92           |  |       |  |       |  |       |  |       | 1,290  | 2.7   | 1,070  | 2.05  | 765  | 1.40  |
| 3040   | 9750                | 7.29                   | 1.0            |  |       |  |       |  |       |  |       | 1,370  | 3.2   | 1,170  | 2.40  | 915  | 1.80  |
| 3120   | 10000               | 7.66                   | 1.1            |  |       |  |       |  |       |  |       | 1,450  | 3.7   | 1,270  | 2.85  | 1,030  | 2.15  |
| 3195   | 10250               | 8.05                   | 1.2            |  |       |  |       |  |       |  |       |  |       | 1,360  | 3.3   | 1,150  | 2.55  |
| 3275   | 10500               | 8.45                   | 1.2            |  |       |  |       |  |       |  |       |  |       | 1,440  | 3.8   | 1,250  | 3.00  |
| 3350   | 10750               | 8.85                   | 1.3            |  |       |  |       |  |       |  |       |  |       | 1,530  | 4.4   | 1,350  | 3.50  |
| 3422   | 11000               | 9.27                   | 1.4            |  |       |  |       |  |       |  |       |  |       |  |       | 1,450  | 4.00  |
| 3503   | 11250               | 9.7                    | 1.5            |  |       |  |       |  |       |  |       |  |       |  |       | 1,530  | 4.55  |
| 3580   | 11500               | 10.1                   | 1.6            |  |       |  |       |  |       |  |       |  |       |  |       | 1,610  | 5.2   |
|        |                     |                        |                |  |       |  |       |  |       |  |       |  |       |  |       | 1,690  | 5.9   |

| R.P.M. | Tip<br>Speed<br>F.P.M. | S.N.D.<br>in<br>inches | S.N.D.<br>H.P. | Static Pressure<br>8" Water<br>4.63 ozs. per<br>sq. inch | Static Pressure<br>9" Water<br>5.2 ozs. per<br>sq. inch | Static Pressure<br>10" Water<br>5.78 ozs. per<br>sq. inch | Static Pressure<br>11" Water<br>6.36 ozs. per<br>sq. inch | Static Pressure<br>12" Water<br>6.93 ozs. per<br>sq. inch | Static Pressure<br>00" Water<br>0.00 ozs. per<br>sq. inch | Static Pressure<br>00" Water<br>0.00 ozs. per<br>sq. inch |      |
|--------|------------------------|------------------------|----------------|--|---|---|---|---|---|---|------|
| 3120   | 10,000                 | 7.66                   | 1.1            | 711  | 1.45  |   |   |   |   |   |      |
| 3195   | 10,250                 | 8.05                   | 1.2            | 880  | 1.90  |   |   |   |   |   |      |
| 3275   | 10,500                 | 8.45                   | 1.2            | 1,010  | 2.30  | 661   | 1.50  |   |   |   |      |
| 3350   | 10,750                 | 8.85                   | 1.3            | 1,130  | 2.70  | 850   | 2.00  |   |   |   |      |
| 3422   | 11,000                 | 9.27                   | 1.4            | 1,240  | 3.20  | 1,000   | 2.50  | 620   | 1.60  |   |      |
| 3503   | 11,250                 | 9.7                    | 1.5            | 1,350  | 3.70  | 1,130   | 2.95  | 850   | 2.15  |   |      |
| 3580   | 11,500                 | 10.1                   | 1.6            | 1,450  | 4.30  | 1,250   | 3.50  | 1,010   | 2.70  | 612   | 1.75 |
| 3660   | 11,750                 | 10.6                   | 1.7            | 1,540  | 4.85  | 1,350   | 4.00  | 1,140   | 3.25  | 851   | 2.40 |
| 3740   | 12,000                 | 11.1                   | 1.9            | 1,640  | 5.6   | 1,470   | 4.65  | 1,270   | 3.85  | 1,030   | 3.05 |
| 3820   | 12,250                 | 11.5                   | 2.0            | 1,710  | 6.2   | 1,550   | 5.2   | 1,370   | 4.35  | 1,150   | 3.55 |
| 3900   | 12,500                 | 12                     | 2.1            | 1,790  | 7   | 1,650   | 5.9   | 1,480   | 5   | 1,280   | 4.15 |
|        |                        |                        |                |  |   |   |   |   |   | 668   | 2.05 |
|        |                        |                        |                |  |   |   |   |   |   | 866   | 2.65 |
|        |                        |                        |                |  |   |   |   |   |   | 1,050   | 3.35 |

Double Inlet

**No. 3 Monogram Fan—Design 2**

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | S.N.D. H.P. | Volume C.F.M.                                   | H. P. | Volume C.F.M.                                   | H. P. | Volume C.F.M.                                    | H. P. | Volume C.F.M.                                    | H. P. | Volume C.F.M.                                   | H. P. | Volume C.F.M.                                    | H. P. | Volume C.F.M.                                    | H. P. |
|--------|------------------|------------------|-------------|---|-------|---|-------|--|-------|--|-------|---|-------|--|-------|--|-------|
|        |                  |                  |             | Static Pressure 1" Water .578 ozs. per sq. inch |       | Static Pressure 2" Water 1.16 ozs. per sq. inch |       | Static Pressure 3" Water 1.73 ozs. per sq. inch  |       | Static Pressure 4" Water 2.31 ozs. per sq. inch  |       | Static Pressure 5" Water 2.89 ozs. per sq. inch |       | Static Pressure 6" Water 3.47 ozs. per sq. inch  |       | Static Pressure 7" Water 4.05 ozs. per sq. inch  |       |
| 835    | 3500             | 0.939            | 0.06        | 300   | 0.076 |   |       |  |       |  |       |   |       |  |       |  |       |
| 895    | 3750             | 1.08             | 0.08        | 515   | 0.150 |   |       |  |       |  |       |   |       |  |       |  |       |
| 954    | 4000             | 1.23             | 0.09        | 662   | 0.230 |   |       |  |       |  |       |   |       |  |       |  |       |
| 1015   | 4250             | 1.39             | 0.11        | 786   | 0.315 |   |       |  |       |  |       |   |       |  |       |  |       |
| 1073   | 4500             | 1.55             | 0.13        | 894   | 0.47  |   |       |  |       |  |       |   |       |  |       |  |       |
| 1193   | 5000             | 1.92             | 0.18        |   |       | 481   | 0.215 |  |       |  |       |   |       |  |       |  |       |
| 1252   | 5250             | 2.11             | 0.21        |   |       | 682   | 0.385 |  |       |  |       |   |       |  |       |  |       |
| 1312   | 5500             | 2.31             | 0.24        |   |       | 810   | 0.54  |  |       |  |       |   |       |  |       |  |       |
| 1371   | 5750             | 2.54             | 0.28        |   |       | 990   | 0.74  |  |       |  |       |   |       |  |       |  |       |
| 1431   | 6000             | 2.76             | 0.32        |   |       | 1,100   | 0.94  | 413  | 0.325 |  |       |   |       |  |       |  |       |
| 1491   | 6250             | 2.99             | 0.36        |   |       | 1,220   | 1.2   | 705  | 0.560 |  |       |   |       |  |       |  |       |
| 1550   | 6500             | 3.24             | 0.40        |   |       |   |       | 894  | 0.785 |  |       |   |       |  |       |  |       |
| 1610   | 6750             | 3.50             | 0.45        |   |       |   |       | 1,040  | 1.00  |  |       |   |       |  |       |  |       |
| 1670   | 7000             | 3.75             | 0.50        |   |       |   |       | 1,180  | 1.30  | 590  | 0.60  |   |       |  |       |  |       |
| 1730   | 7250             | 4.02             | 0.56        |   |       |   |       | 1,310  | 1.60  | 842  | 0.90  |   |       |  |       |  |       |
| 1790   | 7500             | 4.31             | 0.62        |   |       |   |       | 1,430  | 1.95  | 1,030  | 1.20  |   |       |  |       |  |       |
| 1850   | 7750             | 4.60             | 0.68        |   |       |   |       | 1,530  | 2.35  | 1,180  | 1.50  | 548   | 0.72  |  |       |  |       |
| 1910   | 8000             | 4.90             | 0.75        |   |       |   |       |  |       | 1,320  | 1.85  | 852   | 1.10  |  |       |  |       |
| 1970   | 8250             | 5.21             | 0.83        |   |       |   |       |  |       | 1,450  | 2.25  | 1,050   | 1.45  |  |       |  |       |
| 2030   | 8500             | 5.52             | 0.90        |   |       |   |       |  |       | 1,570  | 2.65  | 1,210   | 1.80  | 604  | 0.95  |  |       |
| 2090   | 8750             | 5.88             | 0.98        |   |       |   |       |  |       | 1,690  | 3.2   | 1,370   | 2.25  | 933  | 1.45  |  |       |
| 2150   | 9000             | 6.20             | 1.1         |   |       |   |       |  |       |  |       | 1,500   | 2.65  | 1,130  | 1.85  |  |       |
| 2210   | 9250             | 6.55             | 1.2         |   |       |   |       |  |       |  |       | 1,640   | 3.2   | 1,310  | 2.30  | 771  | 1.35  |
| 2270   | 9500             | 6.91             | 1.3         |   |       |   |       |  |       |  |       | 1,750   | 3.7   | 1,450  | 2.80  | 1,010  | 1.90  |
| 2330   | 9750             | 7.29             | 1.4         |   |       |   |       |  |       |  |       | 1,870   | 4.4   | 1,590  | 3.30  | 1,250  | 2.45  |
| 2385   | 10000            | 7.66             | 1.5         |   |       |   |       |  |       |  |       | 1,970   | 5.0   | 1,730  | 3.85  | 1,400  | 2.90  |
| 2445   | 10250            | 8.05             | 1.6         |   |       |   |       |  |       |  |       |   |       | 1,850  | 4.5   | 1,560  | 3.45  |
| 2505   | 10500            | 8.45             | 1.7         |   |       |   |       |  |       |  |       |   |       | 1,970  | 5.1   | 1,700  | 4.05  |
| 2570   | 10750            | 8.85             | 1.8         |   |       |   |       |  |       |  |       |   |       | 2,080  | 6     | 1,840  | 4.75  |
| 2622   | 11000            | 9.27             | 1.9         |   |       |   |       |  |       |  |       |   |       |  |       | 1,970  | 5.4   |
| 2685   | 11250            | 9.7              | 2.1         |   |       |   |       |  |       |  |       |   |       |  |       | 2,080  | 6.2   |
| 2742   | 11500            | 10.1             | 2.2         |   |       |   |       |  |       |  |       |   |       |  |       | 2,200  | 7.1   |
| 2802   | 11750            | 10.6             | 2.4         |   |       |   |       |  |       |  |       |   |       |  |       | 2,300  | 8     |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | S.N.D. H.P. | Static Pressure 8" Water 4.63 ozs. per sq. inch |       | Static Pressure 9" Water 5.2 ozs. per sq. inch  |       | Static Pressure 10" Water 5.78 ozs. per sq. inch |       | Static Pressure 11" Water 6.36 ozs. per sq. inch |       | Static Pressure 12" Water 6.9 ozs. per sq. inch |       | Static Pressure 13" Water 7.51 ozs. per sq. inch |       | Static Pressure 14" Water 8.08 ozs. per sq. inch |       |
| 2385   | 10000            | 7.66             | 1.5         | 969   | 1.95  |   |       |  |       |  |       |   |       |  |       |  |       |
| 2445   | 10250            | 8.05             | 1.6         | 1,197   | 2.55  |   |       |  |       |  |       |   |       |  |       |  |       |
| 2505   | 10500            | 8.45             | 1.7         | 1,380   | 3.15  | 900   | 2.05  |  |       |  |       |   |       |  |       |  |       |
| 2570   | 10750            | 8.85             | 1.8         | 1,530   | 3.70  | 1,160   | 2.70  |  |       |  |       |   |       |  |       |  |       |
| 2622   | 11000            | 9.27             | 1.9         |   |       | 1,370   | 3.40  | 845  | 2.15  |  |       |   |       |  |       |  |       |
| 2685   | 11250            | 9.70             | 2.1         |   |       | 1,540   | 4.05  | 1,160  | 2.95  |  |       |   |       |  |       |  |       |
| 2742   | 11500            | 10.1             | 2.2         |   |       | 1,700   | 4.75  | 1,370  | 3.70  | 834  | 2.40  |   |       |  |       |  |       |
| 2802   | 11750            | 10.6             | 2.4         |   |       | 1,840   | 5.4   | 1,550  | 4.45  | 1,160  | 3.25  |   |       |  |       |  |       |
| 2862   | 12000            | 11.1             | 2.5         | 2,220   | 7.6   | 2,000   | 6.3   | 1,730  | 5.2   | 1,410  | 4.15  | 910   | 2.80  |  |       |  |       |
| 2922   | 12250            | 11.5             | 2.7         | 2,320   | 8.5   | 2,110   | 7.1   | 1,860  | 5.9   | 1,570  | 4.85  | 1,180   | 3.60  |  |       |  |       |
| 2980   | 12500            | 12.0             | 2.9         | 2,440   | 9.5   | 2,240   | 8.0   | 2,010  | 6.8   | 1,740  | 5.6   | 1,430   | 4.55  | 903  | 3.05  |  |       |
| 3040   | 12750            | 12.5             | 3.0         |   |       | 2,350   | 9.3   | 2,150  | 7.7   | 1,900  | 6.5   | 1,610   | 5.4   | 1,240  | 4.1   |  |       |

Double Inlet

## No. 4 Monogram Fan—Design 2

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances.

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.                                   | H. P. | Volume C.F.M.                                   | H. P. | Volume C.F.M.                                    | H. P. | Volume C.F.M.                                    | H. P. | Volume C.F.M.                                    | H. P. | Volume C.F.M.                                    | H. P. | Volume C.F.M.                                    | H. P. |
|--------|------------------|------------------|---|-------|---|-------|--|-------|--|-------|--|-------|--|-------|--|-------|
|        |                  |                  | Static Pressure 1" Water .578 ozs. per sq. inch |       | Static Pressure 2" Water 1.16 ozs. per sq. inch |       | Static Pressure 3" Water 1.75 ozs. per sq. inch  |       | Static Pressure 4" Water 2.31 ozs. per sq. inch  |       | Static Pressure 5" Water 2.89 ozs. per sq. inch  |       | Static Pressure 6" Water 3.47 ozs. per sq. inch  |       | Static Pressure 7" Water 4.05 ozs. per sq. inch  |       |
| 954    | 4750             | 1.86             | 1,660   | 0.68  | 513   | 0.245 |  |       |  |       |  |       |  |       |  |       |
| 1000   | 5000             | 2.06             | 1,820   | 0.83  | 954   | 0.44  |  |       |  |       |  |       |  |       |  |       |
| 1050   | 5250             | 2.27             | 1,970   | 0.98  | 1,220   | 0.61  |  |       |  |       |  |       |  |       |  |       |
| 1100   | 5500             | 2.50             | 2,120   | 1.15  | 1,410   | 0.79  |  |       |  |       |  |       |  |       |  |       |
| 1150   | 5750             | 2.73             | 2,270   | 1.35  | 1,650   | 0.99  |  |       |  |       |  |       |  |       |  |       |
| 1175   | 5875             | 2.85             | 2,350   | 1.45  | 1,750   | 1.1   | 522  | 0.390 |  |       |  |       |  |       |  |       |
| 1205   | 6000             | 2.97             |   |       |   |       | 1,010  | 0.69  |  |       |  |       |  |       |  |       |
| 1255   | 6250             | 3.22             |   |       |   |       | 1,300  | 0.93  |  |       |  |       |  |       |  |       |
| 1305   | 6500             | 3.49             |   |       |   |       | 1,550  | 1.20  |  |       |  |       |  |       |  |       |
| 1355   | 6750             | 3.76             |   |       |   |       | 1,780  | 1.50  | 850  | 0.78  |  |       |  |       |  |       |
| 1405   | 7000             | 4.04             |   |       |   |       | 1,980  | 1.75  | 1,270  | 1.15  |  |       |  |       |  |       |
| 1455   | 7250             | 4.34             |   |       |   |       |  |       | 1,550  | 1.50  |  |       |  |       |  |       |
| 1505   | 7500             | 4.64             |   |       |   |       |  |       | 1,790  | 1.80  | 810  | 0.95  |  |       |  |       |
| 1555   | 7750             | 4.96             |   |       |   |       |  |       | 2,010  | 2.20  | 1,310  | 1.50  |  |       |  |       |
| 1605   | 8000             | 5.28             |   |       |   |       |  |       | 2,230  | 2.55  | 1,620  | 1.90  |  |       |  |       |
| 1655   | 8250             | 5.62             |   |       |   |       |  |       | 2,430  | 3     | 1,880  | 2.35  | 995  | 1.40  |  |       |
| 1705   | 8500             | 5.96             |   |       |   |       |  |       |  |       | 2,110  | 2.80  | 1,460  | 2.00  |  |       |
| 1755   | 8750             | 6.42             |   |       |   |       |  |       |  |       | 2,360  | 3.30  | 1,760  | 2.50  |  |       |
| 1780   | 8875             | 6.50             |   |       |   |       |  |       |  |       | 2,440  | 3.50  | 1,900  | 2.75  | 895  | 1.45  |
| 1805   | 9000             | 6.68             |   |       |   |       |  |       |  |       | 2,540  | 3.75  | 2,020  | 3.00  | 1,290  | 2.05  |
| 1910   | 9500             | 7.15             |   |       |   |       |  |       |  |       |  |       | 2,480  | 4.05  | 1,950  | 3.20  |
| 2000   | 10000            | 8.25             |   |       |   |       |  |       |  |       |  |       | 2,890  | 5.3   | 2,440  | 4.45  |
| 2056   | 10250            | 8.67             |   |       |   |       |  |       |  |       |  |       |  |       | 2,660  | 5.1   |
| 2110   | 10500            | 9.10             |   |       |   |       |  |       |  |       |  |       |  |       | 2,880  | 5.8   |
| 2155   | 10750            | 9.53             |   |       |   |       |  |       |  |       |  |       |  |       | 3,080  | 6.5   |
| 2210   | 11000            | 9.98             |   |       |   |       |  |       |  |       |  |       |  |       | 3,280  | 7.2   |
|        |                  |                  |   |       |   |       |  |       |  |       |  |       |  |       |  |       |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.                                   | H. P. | Volume C.F.M.                                   | H. P. | Volume C.F.M.                                    | H. P. | Volume C.F.M.                                    | H. P. | Volume C.F.M.                                    | H. P. | Volume C.F.M.                                    | H. P. | Volume C.F.M.                                    | H. P. |
|        |                  |                  | Static Pressure 8" Water 4.63 ozs. per sq. inch |       | Static Pressure 9" Water 5.2 ozs. per sq. inch  |       | Static Pressure 10" Water 5.78 ozs. per sq. inch |       | Static Pressure 11" Water 6.36 ozs. per sq. inch |       | Static Pressure 12" Water 6.93 ozs. per sq. inch |       | Static Pressure 13" Water 7.51 ozs. per sq. inch |       | Static Pressure 14" Water 8.08 ozs. per sq. inch |       |
| 1905   | 9500             | 7.45             | 1,030   | 1.95  |   |       |  |       |  |       |  |       |  |       |  |       |
| 1960   | 9750             | 7.85             | 1,580   | 2.85  |   |       |  |       |  |       |  |       |  |       |  |       |
| 2000   | 10000            | 8.25             | 1,910   | 3.40  | 900   | 2.05  |  |       |  |       |  |       |  |       |  |       |
| 2060   | 10250            | 8.67             | 2,190   | 4.20  | 1,540   | 3.10  |  |       |  |       |  |       |  |       |  |       |
| 2110   | 10500            | 9.10             | 2,440   | 4.90  | 1,900   | 3.90  |  |       |  |       |  |       |  |       |  |       |
| 2135   | 10625            | 9.31             | 2,550   | 5.3   | 2,050   | 4.30  | 1,240  | 2.90  |  |       |  |       |  |       |  |       |
| 2160   | 10750            | 9.53             | 2,660   | 5.6   | 2,180   | 4.65  | 1,510  | 3.50  |  |       |  |       |  |       |  |       |
| 2210   | 11000            | 9.98             | 2,890   | 6.4   | 2,450   | 5.4   | 1,900  | 4.35  |  |       |  |       |  |       |  |       |
| 2235   | 11125            | 10.2             | 3,000   | 6.8   | 2,560   | 5.8   | 2,070  | 4.75  | 1,000  | 2.75  |  |       |  |       |  |       |
| 2260   | 11250            | 10.4             | 3,100   | 7.2   | 2,680   | 6.2   | 2,230  | 5.2   | 1,540  | 3.80  |  |       |  |       |  |       |
| 2310   | 11500            | 10.9             | 3,300   | 7.9   | 2,910   | 7.0   | 2,480  | 6.0   | 1,950  | 4.85  |  |       |  |       |  |       |
| 2335   | 11625            | 11.2             |   |       | 3,010   | 7.4   | 2,610  | 6.5   | 2,120  | 5.35  | 1,250  | 3.55  |  |       |  |       |
| 2360   | 11750            | 11.4             |   |       | 3,130   | 7.9   | 2,740  | 6.9   | 2,280  | 5.8   | 1,650  | 4.45  |  |       |  |       |
| 2410   | 12000            | 11.9             |   |       | 3,350   | 8.7   | 2,950  | 7.7   | 2,540  | 6.7   | 2,020  | 5.5   |  |       |  |       |
| 2435   | 12125            | 12.1             |   |       | 3,430   | 9.1   | 3,070  | 8.2   | 2,680  | 7.2   | 2,200  | 6.0   | 1,420  | 3.95  |  |       |
| 2460   | 12250            | 12.4             |   |       | 3,520   | 9.6   | 3,180  | 8.7   | 2,800  | 7.7   | 2,340  | 6.5   | 1,720  | 5.0   |  |       |
| 2510   | 12500            | 12.9             |   |       | 3,760   | 10.5  | 3,410  | 9.6   | 3,020  | 8.6   | 2,620  | 7.5   | 2,110  | 6.2   |  |       |
| 2540   | 12625            | 13.2             |   |       |   |       | 3,510  | 10.0  | 3,150  | 9.2   | 2,760  | 8.0   | 2,300  | 6.8   | 1,570  | 5.0   |
| 2560   | 12750            | 13.4             |   |       |   |       | 3,600  | 10.5  | 3,260  | 9.6   | 2,880  | 8.5   | 2,470  | 7.5   | 1,860  | 5.9   |
| 2610   | 13000            | 13.9             |   |       |   |       | 3,800  | 11.5  | 3,480  | 10.5  | 3,120  | 9.5   | 2,720  | 8.4   | 2,220  | 7.1   |
| 2710   | 13500            | 15.0             |   |       |   |       |  |       | 3,870  | 13    | 3,580  | 12.0  | 3,200  | 10.5  | 2,820  | 9.4   |

### Single Width

[illegible]

### Single Width

**When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances**

| R.P.M. | Tip Speed<br>F.P.M. | S.N.D.<br>in<br>inches | Volume<br>C.F.M.  | H. P. | Volume<br>C.F.M.   | H. P. | Volume<br>C.F.M.   | H. P. | Volume<br>C.F.M.   | H. P. | Volume<br>C.F.M.   | H. P. | Volume<br>C.F.M.   | H. P. | Volume<br>C.F.M.   | H. P. |
|--------|---------------------|------------------------|---|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|
|        |                     |                        | Static Pressure<br>1" Water<br>0.578 ozs. per<br>sq. inch |       | Static Pressure<br>2" Water<br>1.16 ozs. per<br>sq. inch |       | Static Pressure<br>3" Water<br>1.73 ozs. per<br>sq. inch |       | Static Pressure<br>4" Water<br>2.31 ozs. per<br>sq. inch |       | Static Pressure<br>5" Water<br>2.89 ozs. per<br>sq. inch |       | Static Pressure<br>6" Water<br>3.47 ozs. per<br>sq. inch |       | Static Pressure<br>7" Water<br>4.05 ozs. per<br>sq. inch |       |
| 698    | 4750                | 1 86                   | 2,370   | 1 10  | 825  | 0 39  |  |       |  |       |  |       |  |       |  |       |
| 735    | 5000                | 2 06                   | 2,930   | 1 35  | 1,540  | 0 71  |  |       |  |       |  |       |  |       |  |       |
| 770    | 5250                | 2 27                   | 3,180   | 1 60  | 1,960  | 0 98  |  |       |  |       |  |       |  |       |  |       |
| 806    | 5500                | 2 50                   | 3,420   | 1 90  | 2,310  | 1 25  |  |       |  |       |  |       |  |       |  |       |
| 845    | 5750                | 2 73                   | 3,660   | 2 20  | 2,650  | 1 60  |  |       |  |       |  |       |  |       |  |       |
| 861    | 5875                | 2 85                   | 3,780   | 2 35  | 2,810  | 1 75  | 841  | 0 63  |  |       |  |       |  |       |  |       |
| 880    | 6000                | 2 97                   |   |       |  |       | 1,630  | 1 10  |  |       |  |       |  |       |  |       |
| 917    | 6250                | 3 22                   |   |       |  |       | 2,090  | 1 50  |  |       |  |       |  |       |  |       |
| 954    | 6500                | 3 49                   |   |       |  |       | 2,500  | 1 95  |  |       |  |       |  |       |  |       |
| 990    | 6750                | 3 76                   |   |       |  |       | 2,870  | 2 40  | 1,370  | 1 25  |  |       |  |       |  |       |
| 1030   | 7000                | 4 04                   |   |       |  |       | 3,200  | 2 85  | 2,050  | 1 85  |  |       |  |       |  |       |
| 1065   | 7250                | 4 34                   |   |       |  |       |  |       | 2,490  | 2 40  |  |       |  |       |  |       |
| 1100   | 7500                | 4 64                   |   |       |  |       |  |       | 2,890  | 2 95  | 1,310  | 1 55  |  |       |  |       |
| 1140   | 7750                | 4 96                   |   |       |  |       |  |       | 3,240  | 3 50  | 2,100  | 2 40  |  |       |  |       |
| 1175   | 8000                | 5 28                   |   |       |  |       |  |       | 3,600  | 4 10  | 2,610  | 3 10  |  |       |  |       |
| 1210   | 8250                | 5 62                   |   |       |  |       |  |       |  |       | 3,030  | 3 75  | 1,600  | 2 20  |  |       |
| 1250   | 8500                | 5 96                   |   |       |  |       |  |       |  |       | 3,930  | 4 45  | 2,340  | 3 20  |  |       |
| 1285   | 8750                | 6 42                   |   |       |  |       |  |       |  |       | 3,800  | 5 3   | 2,830  | 4 00  |  |       |
| 1305   | 8875                | 6 50                   |   |       |  |       |  |       |  |       | 3,930  | 5 6   | 3,060  | 4 45  | 1,440  | 2 35  |
| 1320   | 9000                | 6 68                   |   |       |  |       |  |       |  |       | 4,080  | 6 0   | 3,250  | 4 8   | 2,070  | 3 30  |
| 1390   | 9500                | 7 45                   |   |       |  |       |  |       |  |       |  |       | 3,990  | 6 5   | 3,130  | 5 2   |
| 1470   | 10000               | 8 25                   |   |       |  |       |  |       |  |       |  |       | 4,060  | 8 5   | 3,930  | 7 2   |
| 1505   | 10250               | 8 67                   |   |       |  |       |  |       |  |       |  |       |  |       | 4,280  | 8 2   |
| 1540   | 10500               | 9 10                   |   |       |  |       |  |       |  |       |  |       |  |       | 4,640  | 9 3   |
| 1575   | 10750               | 9 53                   |   |       |  |       |  |       |  |       |  |       |  |       | 4,960  | 10 5  |
| 1610   | 11000               | 9 98                   |   |       |  |       |  |       |  |       |  |       |  |       | 5,280  | 11 5  |

| R.P.M. | Tip Speed<br>F.P.M. | S.N.D.<br>in<br>inches | Volume<br>C.F.M.   | H. P. | Volume<br>C.F.M.  | H. P. | Volume<br>C.F.M.  | H. P. | Volume<br>C.F.M.  | H. P. | Volume<br>C.F.M.  | H. P. | Volume<br>C.F.M.  | H. P. | Volume<br>C.F.M.  | H. P. |
|--------|---------------------|------------------------|--|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|
|        |                     |                        | Static Pressure<br>8" Water<br>4.63 ozs. per<br>sq. inch |       | Static Pressure<br>9" Water<br>5.2 ozs. per<br>sq. inch |       | Static Pressure<br>10" Water<br>5.78 ozs. per<br>sq. inch |       | Static Pressure<br>11" Water<br>6.36 ozs. per<br>sq. inch |       | Static Pressure<br>12" Water<br>6.93 ozs. per<br>sq. inch |       | Static Pressure<br>13" Water<br>7.51 ozs. per<br>sq. inch |       | Static Pressure<br>14" Water<br>8.08 ozs. per<br>sq. inch |       |
| 1390   | 9500                | 7 45                   | 1,650  | 3 1   |   |       |   |       |   |       |   |       |   |       |   |       |
| 1430   | 9750                | 7 85                   | 2,540  | 4 6   |   |       |   |       |   |       |   |       |   |       |   |       |
| 1470   | 10000               | 8 25                   | 3,070  | 5 5   | 1,450   | 3 25  |   |       |   |       |   |       |   |       |   |       |
| 1505   | 10250               | 8 67                   | 3,500  | 6 8   | 2,480   | 5 1   |   |       |   |       |   |       |   |       |   |       |
| 1540   | 10500               | 9 10                   | 3,930  | 7 9   | 3,060   | 6 3   |   |       |   |       |   |       |   |       |   |       |
| 1560   | 10625               | 9 31                   | 4,100  | 8 4   | 3,300   | 6 9   | 2,000   | 4 65  |   |       |   |       |   |       |   |       |
| 1575   | 10750               | 9 53                   | 4,280  | 9 0   | 3,500   | 7 5   | 2,430   | 5 6   |   |       |   |       |   |       |   |       |
| 1610   | 11000               | 9 98                   | 4,650  | 10 0  | 2,950   | 8 7   | 3,060   | 7 0   |   |       |   |       |   |       |   |       |
| 1630   | 11125               | 10 2                   | 4,830  | 11 0  | 4,130   | 9 3   | 3,340   | 7 6   | 1,610   | 4 45  |   |       |   |       |   |       |
| 1650   | 11250               | 10 4                   | 5,000  | 11 5  | 4,330   | 10 0  | 3,590   | 8 4   | 2,480   | 6 2   |   |       |   |       |   |       |
| 1690   | 11500               | 10 9                   | 5,320  | 12 5  | 4,680   | 11 0  | 4,000   | 9 7   | 3,120   | 7 8   |   |       |   |       |   |       |
| 1705   | 11625               | 11 2                   |  |       | 4,850   | 12 0  | 4,220   | 10 5  | 3,410   | 8 6   | 2,020   | 5 7   |   |       |   |       |
| 1725   | 11750               | 11 4                   |  |       | 5,050   | 12 5  | 4,410   | 11 0  | 3,660   | 9 4   | 2,060   | 7 2   |   |       |   |       |
| 1760   | 12000               | 11 9                   |  |       | 5,380   | 14 0  | 4,750   | 12 5  | 4,060   | 11 0  | 3,250   | 8 8   |   |       |   |       |
| 1780   | 12125               | 12 1                   |  |       | 5,520   | 14 5  | 4,940   | 13 0  | 4,300   | 11 5  | 3,540   | 9 7   | 2,200   | 6 1   |   |       |
| 1800   | 12250               | 12 4                   |  |       | 5,680   | 15 5  | 5,130   | 14 0  | 4,500   | 12 5  | 3,770   | 10 5  | 2,760   | 8 1   |   |       |
| 1835   | 12500               | 12 9                   |  |       | 6,060   | 17    | 5,500   | 15 5  | 4,850   | 14 0  | 4,220   | 12 0  | 3,390   | 10 0  |   |       |
| 1855   | 12625               | 13 2                   |  |       |   |       | 5,650   | 16 5  | 5,070   | 15 0  | 4,440   | 13 0  | 3,700   | 11 0  | 2,530   | 8 1   |
| 1870   | 12750               | 13 4                   |  |       |   |       | 5,800   | 17    | 5,250   | 15 5  | 4,640   | 13 5  | 3,970   | 12 0  | 3,000   | 9 4   |
| 1910   | 13000               | 13 9                   |  |       |   |       | 6,130   | 19    | 5,600   | 17 0  | 5,010   | 15 5  | 4,370   | 13 5  | 3,580   | 11 5  |
| 1980   | 13500               | 15 0                   |  |       |   |       |   |       | 6,250   | 20 5  | 5,760   | 19 0  | 5,170   | 17    | 4,540   | 15 0  |



### Single Width

**When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances**

[illegible]

Double Inlet

**No. 8 Monogram Fan – Design 2**

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed<br>F.P.M. | S.N.D.<br>in<br>inches | Volume<br>C.F.M.   | H. P. | Volume<br>C.F.M.   | H. P. | Volume<br>C.F.M.  | H. P. | Volume<br>C.F.M.  | H. P. | Volume<br>C.F.M.  | H. P. | Volume<br>C.F.M.  | H. P. | Volume<br>C.F.M.  | H. P. |
|--------|---------------------|------------------------|--|-------|--|-------|---|-------|---|-------|---|-------|---|-------|---|-------|
|        |                     |                        | Static Pressure<br>1" Water<br>.578 ozs. per<br>sq. inch |       | Static Pressure<br>2" Water<br>1.16 ozs. per<br>sq. inch |       | Static Pressure<br>3" Water<br>1.73 ozs. per<br>sq. inch  |       | Static Pressure<br>4" Water<br>2.31 ozs. per<br>sq. inch  |       | Static Pressure<br>5" Water<br>2.89 ozs. per<br>sq. inch  |       | Static Pressure<br>6" Water<br>3.47 ozs. per<br>sq. inch  |       | Static Pressure<br>7" Water<br>4.05 ozs. per<br>sq. inch  |       |
| 503    | 4750                | 1 86                   | 6,480  | 2 70  | 2,020  | 0 96  |   |       |   |       |   |       |   |       |   |       |
| 529    | 5000                | 2 06                   | 7,150  | 3 25  | 3,750  | 1 75  |   |       |   |       |   |       |   |       |   |       |
| 556    | 5250                | 2 27                   | 7,750  | 3 85  | 4,780  | 2 40  |   |       |   |       |   |       |   |       |   |       |
| 583    | 5500                | 2 50                   | 8,350  | 4 6   | 5,650  | 3 10  |   |       |   |       |   |       |   |       |   |       |
| 609    | 5750                | 2 73                   | 8,910  | 5 3   | 6,490  | 3 90  |   |       |   |       |   |       |   |       |   |       |
| 622    | 5875                | 2 85                   | 9,250  | 5 7   | 6,880  | 4 3   | 2,050   | 1 55  |   |       |   |       |   |       |   |       |
| 635    | 6000                | 2 97                   |  |       |  |       | 3,970   | 2 70  |   |       |   |       |   |       |   |       |
| 663    | 6250                | 3 22                   |  |       |  |       | 5,110   | 3 65  |   |       |   |       |   |       |   |       |
| 688    | 6500                | 3 49                   |  |       |  |       | 6,100   | 4 7   |   |       |   |       |   |       |   |       |
| 714    | 6750                | 3 76                   |  |       |  |       | 7,000   | 5 8   | 3,350   | 3 05  |   |       |   |       |   |       |
| 741    | 7000                | 4 04                   |  |       |  |       | 7,800   | 6 9   | 5,000   | 4 55  |   |       |   |       |   |       |
| 767    | 7250                | 4 34                   |  |       |  |       |   |       | 6,100   | 5 9   |   |       |   |       |   |       |
| 795    | 7500                | 4 64                   |  |       |  |       |   |       | 7,050   | 7 2   | 3,180   | 3 75  |   |       |   |       |
| 820    | 7750                | 4 96                   |  |       |  |       |   |       | 7,900   | 8 6   | 5,130   | 5 9   |   |       |   |       |
| 848    | 8000                | 5 28                   |  |       |  |       |   |       | 8,780   | 10    | 6,380   | 7 5   |   |       |   |       |
| 875    | 8250                | 5 62                   |  |       |  |       |   |       |   |       | 7,400   | 9 2   | 3,920   | 5 4   |   |       |
| 900    | 8500                | 5 96                   |  |       |  |       |   |       |   |       | 8,300   | 11 0  | 5,720   | 7 8   |   |       |
| 927    | 8750                | 6 42                   |  |       |  |       |   |       |   |       | 9,280   | 13 0  | 6,910   | 9 8   | 3,520   | 5 7   |
| 940    | 8875                | 6 50                   |  |       |  |       |   |       |   |       | 9,600   | 13 5  | 7,460   | 11 0  | 5,070   | 8 0   |
| 955    | 9000                | 6 68                   |  |       |  |       |   |       |   |       | 10,000  | 14 5  | 7,940   | 11 5  | 7,650   | 12 5  |
| 1005   | 9500                | 7 45                   |  |       |  |       |   |       |   |       |   |       | 9,730   | 16 0  | 9,600   | 17 5  |
| 1060   | 10000               | 8 25                   |  |       |  |       |   |       |   |       |   |       | 11,400  | 20 5  | 10,500  | 20    |
| 1085   | 10250               | 8 67                   |  |       |  |       |   |       |   |       |   |       |   |       | 11,300  | 23    |
| 1115   | 10500               | 9 10                   |  |       |  |       |   |       |   |       |   |       |   |       | 12,100  | 25    |
| 1140   | 10750               | 9 53                   |  |       |  |       |   |       |   |       |   |       |   |       | 12,000  | 28    |
| 1165   | 11000               | 9 98                   |  |       |  |       |   |       |   |       |   |       |   |       |   |       |
|        |                     |                        |  |       |  |       |   |       |   |       |   |       |   |       |   |       |
| R.P.M. | Tip Speed<br>F.P.M. | S.N.D.<br>in<br>inches | Volume<br>C.F.M.   | H. P. | Volume<br>C.F.M.   | H. P. | Volume<br>C.F.M.  | H. P. | Volume<br>C.F.M.  | H. P. | Volume<br>C.F.M.  | H. P. | Volume<br>C.F.M.  | H. P. | Volume<br>C.F.M.  | H. P. |
|        |                     |                        | Static Pressure<br>8" Water<br>4.63 ozs. per<br>sq. inch |       | Static Pressure<br>9" Water<br>5.2 ozs. per<br>sq. inch  |       | Static Pressure<br>10" Water<br>5.78 ozs. per<br>sq. inch |       | Static Pressure<br>11" Water<br>6.36 ozs. per<br>sq. inch |       | Static Pressure<br>12" Water<br>6.93 ozs. per<br>sq. inch |       | Static Pressure<br>13" Water<br>7.51 ozs. per<br>sq. inch |       | Static Pressure<br>14" Water<br>8.08 ozs. per<br>sq. inch |       |
| 1005   | 9500                | 7 45                   | 4,040  | 7 6   |  |       |   |       |   |       |   |       |   |       |   |       |
| 1035   | 9750                | 7 85                   | 6,210  | 11 0  |  |       |   |       |   |       |   |       |   |       |   |       |
| 1060   | 10000               | 8 25                   | 7,500  | 13 5  | 3,540  | 8 0   |   |       |   |       |   |       |   |       |   |       |
| 1085   | 10250               | 8 67                   | 8,570  | 16 5  | 6,050  | 12 5  |   |       |   |       |   |       |   |       |   |       |
| 1115   | 10500               | 9 10                   | 9,600  | 19 5  | 7,460  | 15 5  |   |       |   |       |   |       |   |       |   |       |
| 1125   | 10625               | 9 31                   | 10,000   | 20 5  | 8,080  | 17 0  | 4,880   | 11 5  |   |       |   |       |   |       |   |       |
| 1140   | 10750               | 9 53                   | 10,500   | 22    | 8,570  | 18 0  | 5,930   | 13 5  |   |       |   |       |   |       |   |       |
| 1165   | 11000               | 9 98                   | 11,400   | 25    | 9,620  | 21 0  | 7,470   | 17 0  |   |       |   |       |   |       |   |       |
| 1180   | 11125               | 10 2                   | 11,800   | 26    | 10,100   | 23 0  | 8,150   | 18 5  | 3,940   | 11    |   |       |   |       |   |       |
| 1195   | 11250               | 10 4                   | 12,200   | 28    | 10,600   | 24 5  | 8,750   | 20 5  | 6,060   | 15    |   |       |   |       |   |       |
| 1215   | 11500               | 10 9                   | 13,000   | 31    | 11,500   | 27    | 9,780   | 24    | 7,650   | 19    |   |       |   |       |   |       |
| 1235   | 11625               | 11 2                   |  |       | 11,800   | 29    | 10,300  | 26    | 8,320   | 21    | 4,940   | 14 0  |   |       |   |       |
| 1245   | 11750               | 11 4                   |  |       | 12,300   | 31    | 10,800  | 27    | 8,930   | 23    | 6,480   | 17 5  |   |       |   |       |
| 1275   | 12000               | 11 9                   |  |       | 13,100   | 34    | 11,600  | 30    | 10,000  | 26    | 7,940   | 21 5  |   |       |   |       |
| 1285   | 12125               | 12 1                   |  |       | 13,500   | 36    | 12,100  | 32    | 10,500  | 28    | 8,630   | 23 5  | 5,600   | 15 5  |   |       |
| 1300   | 12250               | 12 4                   |  |       | 13,900   | 38    | 12,600  | 34    | 11,000  | 30    | 9,200   | 26    | 6,760   | 20 0  |   |       |
| 1325   | 12500               | 12 9                   |  |       | 14,800   | 42    | 13,400  | 38    | 11,900  | 34    | 10,300  | 30    | 8,280   | 24 5  |   |       |
| 1340   | 12625               | 13 2                   |  |       |  |       | 13,800  | 40    | 12,400  | 36    | 10,800  | 32    | 9,030   | 27    | 6,170   | 20    |
| 1350   | 12750               | 13 4                   |  |       |  |       | 14,200  | 42    | 12,800  | 38    | 11,300  | 33    | 9,700   | 29    | 7,300   | 23    |
| 1370   | 13000               | 13 9                   |  |       |  |       | 15,000  | 46    | 13,700  | 42    | 12,300  | 38    | 10,700  | 33    | 8,750   | 28    |
| 1430   | 13500               | 15                     |  |       |  |       |   |       | 15,200  | 50    | 14,100  | 47    | 12,600  | 42    | 11,100  | 37    |

Double Inlet

**No. 9 Monogram Fan — Design 2**

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances.

| I.P.M. | Tip Speed<br>F.P.M. | S.N.D.<br>In<br>Inches | Volume   | H. P. | Volume   | H. P. | Volume   | H. P. | Volume   | H. P. | Volume   | H. P. | Volume   | H. P. | Volume   | H. P. |
|--------|---------------------|------------------------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|
|        |                     |                        | C.F.M.   |       | C.F.M.   |       | C.F.M.   |       | C.F.M.   |       | C.F.M.   |       | C.F.M.   |       | C.F.M.   |       |
|        |                     |                        | Static Pressure<br>1" Water<br>.578 ozs. per<br>sq. inch |       | Static Pressure<br>2" Water<br>1.16 ozs. per<br>sq. inch |       | Static Pressure<br>3" Water<br>1.73 ozs. per<br>sq. inch |       | Static Pressure<br>4" Water<br>2.31 ozs. per<br>sq. inch |       | Static Pressure<br>5" Water<br>2.89 ozs. per<br>sq. inch |       | Static Pressure<br>6" Water<br>3.47 ozs. per<br>sq. inch |       | Static Pressure<br>7" Water<br>4.05 ozs. per<br>sq. inch |       |
| 453    | 4750                | 1.86                   | 8,840  | 3.65  | 2,740  | 1.30  |  |       |  |       |  |       |  |       |  |       |
| 476    | 5000                | 2.06                   | 9,700  | 4.35  | 5,090  | 2.35  |  |       |  |       |  |       |  |       |  |       |
| 500    | 5250                | 2.27                   | 10,500   | 5.2   | 6,480  | 3.25  |  |       |  |       |  |       |  |       |  |       |
| 523    | 5500                | 2.50                   | 11,300   | 6.2   | 7,650  | 4.2   |  |       |  |       |  |       |  |       |  |       |
| 548    | 5750                | 2.73                   | 12,100   | 7.2   | 8,780  | 5.3   |  |       |  |       |  |       |  |       |  |       |
| 559    | 5875                | 2.85                   | 12,500   | 7.7   | 9,320  | 5.8   | 2,790  | 2.10  |  |       |  |       |  |       |  |       |
| 571    | 6000                | 2.97                   |  |       |  |       | 5,380  | 3.65  |  |       |  |       |  |       |  |       |
| 595    | 6250                | 3.22                   |  |       |  |       | 6,920  | 5.0   |  |       |  |       |  |       |  |       |
| 619    | 6500                | 3.49                   |  |       |  |       | 8,280  | 6.4   |  |       |  |       |  |       |  |       |
| 642    | 6750                | 3.76                   |  |       |  |       | 9,500  | 7.9   | 2,380  | 4.15  |  |       |  |       |  |       |
| 666    | 7000                | 4.04                   |  |       |  |       | 10,600   | 9.4   | 6,780  | 6.2   |  |       |  |       |  |       |
| 690    | 7250                | 4.34                   |  |       |  |       |  |       | 8,260  | 8.0   |  |       |  |       |  |       |
| 714    | 7500                | 4.64                   |  |       |  |       |  |       | 9,550  | 9.7   | 4,320  | 5.1   |  |       |  |       |
| 738    | 7750                | 4.96                   |  |       |  |       |  |       | 10,700   | 11.5  | 6,950  | 7.9   |  |       |  |       |
| 762    | 8000                | 5.28                   |  |       |  |       |  |       | 11,900   | 13.5  | 8,650  | 10.0  |  |       |  |       |
| 785    | 8250                | 5.62                   |  |       |  |       |  |       |  |       | 10,000   | 12.5  | 5,300  | 7.35  |  |       |
| 810    | 8500                | 5.96                   |  |       |  |       |  |       |  |       | 11,200   | 15.0  | 7,750  | 10.5  |  |       |
| 832    | 8750                | 6.42                   |  |       |  |       |  |       |  |       | 12,600   | 17.5  | 9,350  | 13.0  |  |       |
| 845    | 8875                | 6.50                   |  |       |  |       |  |       |  |       | 13,000   | 18.5  | 10,100   | 14.5  | 4,780  | 7.8   |
| 856    | 9000                | 6.68                   |  |       |  |       |  |       |  |       | 13,500   | 20    | 10,700   | 16.0  | 6,850  | 11.0  |
| 905    | 9500                | 7.45                   |  |       |  |       |  |       |  |       |  |       | 13,200   | 21.5  | 10,400   | 17    |
| 955    | 10000               | 8.25                   |  |       |  |       |  |       |  |       |  |       | 15,400   | 28    | 13,000   | 24    |
| 975    | 10250               | 8.67                   |  |       |  |       |  |       |  |       |  |       |  |       | 14,200   | 28    |
| 1000   | 10500               | 9.10                   |  |       |  |       |  |       |  |       |  |       |  |       | 15,400   | 31    |
| 1020   | 10750               | 9.53                   |  |       |  |       |  |       |  |       |  |       |  |       | 16,500   | 35    |
| 1050   | 11000               | 9.98                   |  |       |  |       |  |       |  |       |  |       |  |       | 17,500   | 39    |

| I.P.M. | Tip Speed<br>F.P.M. | S.N.D.<br>In<br>Inches | Volume   | H. P. | Volume  | H. P. | Volume  | H. P. | Volume  | H. P. | Volume  | H. P. | Volume  | H. P. | Volume  | H. P. |
|--------|---------------------|------------------------|--|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|
|        |                     |                        | C.F.M.   |       | C.F.M.  |       | C.F.M.  |       | C.F.M.  |       | C.F.M.  |       | C.F.M.  |       | C.F.M.  |       |
|        |                     |                        | Static Pressure<br>8" Water<br>4.63 ozs. per<br>sq. inch |       | Static Pressure<br>9" Water<br>5.2 ozs. per<br>sq. inch |       | Static Pressure<br>10" Water<br>5.78 ozs. per<br>sq. inch |       | Static Pressure<br>11" Water<br>6.36 ozs. per<br>sq. inch |       | Static Pressure<br>12" Water<br>6.93 ozs. per<br>sq. inch |       | Static Pressure<br>13" Water<br>7.51 ozs. per<br>sq. inch |       | Static Pressure<br>14" Water<br>8.08 ozs. per<br>sq. inch |       |
| 905    | 9500                | 7.45                   | 5,180  | 10.5  |   |       |   |       |   |       |   |       |   |       |   |       |
| 930    | 9750                | 7.85                   | 8,420  | 15.0  |   |       |   |       |   |       |   |       |   |       |   |       |
| 955    | 10000               | 8.25                   | 10,200   | 18.5  | 4,800   | 11.0  |   |       |   |       |   |       |   |       |   |       |
| 975    | 10250               | 8.67                   | 11,600   | 22.5  | 8,200   | 16.5  |   |       |   |       |   |       |   |       |   |       |
| 1000   | 10500               | 9.10                   | 13,000   | 26    | 10,100  | 21    |   |       |   |       |   |       |   |       |   |       |
| 1015   | 10625               | 9.31                   | 13,600   | 28    | 11,000  | 23    | 6,620   | 15.5  |   |       |   |       |   |       |   |       |
| 1020   | 10750               | 9.53                   | 14,200   | 30    | 11,600  | 25    | 8,040   | 18.5  |   |       |   |       |   |       |   |       |
| 1050   | 11000               | 9.98                   | 15,400   | 31    | 13,000  | 29    | 10,100  | 23    |   |       |   |       |   |       |   |       |
| 1060   | 11125               | 10.2                   | 16,000   | 36    | 13,700  | 31    | 11,000  | 25    | 5,350   | 14.5  |   |       |   |       |   |       |
| 1070   | 11250               | 10.4                   | 16,600   | 38    | 14,300  | 33    | 11,900  | 28    | 8,200   | 20.5  |   |       |   |       |   |       |
| 1100   | 11500               | 10.9                   | 17,600   | 42    | 15,500  | 37    | 13,300  | 32    | 10,400  | 26    |   |       |   |       |   |       |
| 1110   | 11625               | 11.2                   |  |       | 16,100  | 39    | 14,000  | 35    | 11,300  | 28    | 6,680   | 19    |   |       |   |       |
| 1120   | 11750               | 11.4                   |  |       | 16,700  | 42    | 14,600  | 37    | 12,100  | 31    | 8,780   | 24    |   |       |   |       |
| 1145   | 12000               | 11.9                   |  |       | 17,800  | 46    | 15,800  | 41    | 13,500  | 36    | 10,800  | 29    |   |       |   |       |
| 1155   | 12125               | 12.1                   |  |       | 18,300  | 49    | 16,400  | 44    | 14,300  | 38    | 11,700  | 32    | 7,590   | 21    |   |       |
| 1170   | 12250               | 12.4                   |  |       | 18,800  | 52    | 17,000  | 46    | 14,900  | 41    | 12,500  | 35    | 9,170   | 27    |   |       |
| 1195   | 12500               | 12.9                   |  |       | 20,100  | 58    | 18,200  | 52    | 16,100  | 46    | 14,000  | 40    | 11,200  | 33    |   |       |
| 1205   | 12625               | 13.2                   |  |       |   |       | 18,700  | 54    | 16,800  | 49    | 14,700  | 43    | 12,200  | 36    | 8,360   | 27.0  |
| 1215   | 12750               | 13.4                   |  |       |   |       | 19,200  | 56    | 17,400  | 52    | 15,400  | 45    | 13,200  | 40    | 9,900   | 31    |
| 1240   | 13000               | 13.9                   |  |       |   |       | 20,300  | 62    | 18,500  | 56    | 16,600  | 52    | 14,500  | 45    | 11,900  | 38    |
| 1285   | 13500               | 15.0                   |  |       |   |       |   |       | 20,600  | 68    | 19,100  | 64    | 17,100  | 56    | 15,000  | 50    |

Double Inlet

**No. 10 Monogram Fan—Design 2**

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.                                   | H. P. | Volume C.F.M.                                   | H. P. | Volume C.F.M.                                   | H. P. | Volume C.F.M.                                   | H. P. | Volume C.F.M.                                   | H. P. | Volume C.F.M.                                   | H. P. | Volume C.F.M.                                   | H. P. |
|--------|------------------|------------------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|
|        |                  |                  | Static Pressure 1" Water .578 ozs. per sq. inch |       | Static Pressure 2" Water 1.16 ozs. per sq. inch |       | Static Pressure 3" Water 1.73 ozs. per sq. inch |       | Static Pressure 4" Water 2.31 ozs. per sq. inch |       | Static Pressure 5" Water 2.89 ozs. per sq. inch |       | Static Pressure 6" Water 3.47 ozs. per sq. inch |       | Static Pressure 7" Water 4.05 ozs. per sq. inch |       |
| 378    | 4750             | 1 86             | 11,300  | 4 65  | 3,500   | 1 65  |   |       |   |       |   |       |   |       |   |       |
| 397    | 5000             | 2 06             | 12,400  | 5 7   | 6,500   | 3 00  |   |       |   |       |   |       |   |       |   |       |
| 417    | 5250             | 2 27             | 13,500  | 6 7   | 8,300   | 4 15  |   |       |   |       |   |       |   |       |   |       |
| 437    | 5500             | 2 50             | 14,500  | 8 0   | 9,800   | 5 4   |   |       |   |       |   |       |   |       |   |       |
| 457    | 5750             | 2 73             | 15,500  | 9 2   | 11,200  | 6 8   |   |       |   |       |   |       |   |       |   |       |
| 467    | 5875             | 2 85             | 16,000  | 9 9   | 11,900  | 7 4   | 3,560   | 2 7   |   |       |   |       |   |       |   |       |
| 477    | 6000             | 2 97             |   |       |   |       | 6,880   | 4 7   |   |       |   |       |   |       |   |       |
| 497    | 6250             | 3 22             |   |       |   |       | 8,850   | 6 4   |   |       |   |       |   |       |   |       |
| 517    | 6500             | 3 49             |   |       |   |       | 10,600  | 8 2   |   |       |   |       |   |       |   |       |
| 537    | 6750             | 3 76             |   |       |   |       | 12,100  | 10 0  | 3,040   | 5 4   |   |       |   |       |   |       |
| 557    | 7000             | 4 04             |   |       |   |       | 13,500  | 12    | 8,650   | 7 9   |   |       |   |       |   |       |
| 577    | 7250             | 4 34             |   |       |   |       |   |       | 10,600  | 10 0  |   |       |   |       |   |       |
| 596    | 7500             | 4 64             |   |       |   |       |   |       | 12,200  | 12 5  | 5,530   | 6 5   |   |       |   |       |
| 615    | 7750             | 4 96             |   |       |   |       |   |       | 13,700  | 15 0  | 8,900   | 10 0  |   |       |   |       |
| 635    | 8000             | 5 28             |   |       |   |       |   |       | 15,200  | 17 5  | 11,000  | 13 0  |   |       |   |       |
| 655    | 8250             | 5 62             |   |       |   |       |   |       |   |       | 12,900  | 16 0  | 6,790   | 9 4   |   |       |
| 675    | 8500             | 5 96             |   |       |   |       |   |       |   |       | 14,400  | 19 0  | 9,920   | 13 5  |   |       |
| 695    | 8750             | 6 42             |   |       |   |       |   |       |   |       | 16,100  | 22 5  | 12,000  | 17    |   |       |
| 705    | 8875             | 6 50             |   |       |   |       |   |       |   |       | 16,700  | 24    | 13,000  | 19    | 611   | 10    |
| 715    | 9000             | 6 68             |   |       |   |       |   |       |   |       | 17,300  | 25    | 13,800  | 20    | 8,790   | 14    |
| 755    | 9500             | 7 45             |   |       |   |       |   |       |   |       |   |       | 16,900  | 28    | 13,300  | 22    |
| 795    | 10000            | 8 25             |   |       |   |       |   |       |   |       |   |       | 19,700  | 36    | 16,700  | 30    |
| 815    | 10250            | 8 67             |   |       |   |       |   |       |   |       |   |       |   |       | 18,200  | 35    |
| 835    | 10500            | 9 10             |   |       |   |       |   |       |   |       |   |       |   |       | 19,700  | 39    |
| 855    | 10750            | 9 53             |   |       |   |       |   |       |   |       |   |       |   |       | 21,000  | 44    |
| 875    | 11000            | 9 98             |   |       |   |       |   |       |   |       |   |       |   |       | 22,400  | 49    |

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.                                   | H. P. | Volume C.F.M.                                  | H. P. | Volume C.F.M.                                    | H. P. | Volume C.F.M.                                    | H. P. | Volume C.F.M.                                    | H. P. | Volume C.F.M.                                    | H. P. | Volume C.F.M.                                    | H. P. |
|--------|------------------|------------------|---|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|
|        |                  |                  | Static Pressure 8" Water 4.63 ozs. per sq. inch |       | Static Pressure 9" Water 5.2 ozs. per sq. inch |       | Static Pressure 10" Water 5.78 ozs. per sq. inch |       | Static Pressure 11" Water 6.36 ozs. per sq. inch |       | Static Pressure 12" Water 6.93 ozs. per sq. inch |       | Static Pressure 13" Water 7.51 ozs. per sq. inch |       | Static Pressure 14" Water 8.08 ozs. per sq. inch |       |
| 755    | 9500             | 7 45             | 7,000   | 13 0  |  |       |  |       |  |       |  |       |  |       |  |       |
| 775    | 9750             | 7 85             | 10,800  | 19 5  |  |       |  |       |  |       |  |       |  |       |  |       |
| 795    | 10000            | 8 25             | 13,000  | 23 5  | 6,140  | 11 0  |  |       |  |       |  |       |  |       |  |       |
| 815    | 10250            | 8 67             | 14,900  | 29    | 10,500   | 21 5  |  |       |  |       |  |       |  |       |  |       |
| 835    | 10500            | 9 10             | 16,700  | 31    | 13,000   | 27    |  |       |  |       |  |       |  |       |  |       |
| 845    | 10625            | 9 31             | 17,400  | 36    | 14,000   | 29    | 8,480  | 19 5  |  |       |  |       |  |       |  |       |
| 855    | 10750            | 9 53             | 18,200  | 38    | 14,900   | 32    | 10,300   | 23 5  |  |       |  |       |  |       |  |       |
| 875    | 11000            | 9 98             | 19,700  | 43    | 16,700   | 37    | 13,000   | 30    |  |       |  |       |  |       |  |       |
| 885    | 11125            | 10 2             | 20,500  | 46    | 17,500   | 39    | 14,100   | 32    | 6,840  | 19    |  |       |  |       |  |       |
| 895    | 11250            | 10 4             | 21,200  | 49    | 18,300   | 42    | 15,200   | 36    | 10,500   | 26    |  |       |  |       |  |       |
| 915    | 11500            | 10 9             | 22,500  | 51    | 19,800   | 48    | 17,000   | 41    | 13,300   | 33    |  |       |  |       |  |       |
| 925    | 11625            | 11 2             |   |       | 20,500   | 50    | 17,900   | 44    | 14,500   | 36    | 8,560  | 24    |  |       |  |       |
| 935    | 11750            | 11 4             |   |       | 21,400   | 54    | 18,700   | 47    | 15,500   | 40    | 11,300   | 30    |  |       |  |       |
| 955    | 12000            | 11 9             |   |       | 22,800   | 60    | 20,100   | 52    | 17,300   | 46    | 13,800   | 37    |  |       |  |       |
| 965    | 12125            | 12 1             |   |       | 23,400   | 62    | 21,000   | 55    | 18,300   | 49    | 15,000   | 41    | 9,700  | 27    |  |       |
| 975    | 12250            | 12 4             |   |       | 24,100   | 66    | 21,700   | 60    | 19,100   | 52    | 16,000   | 44    | 11,700   | 34    |  |       |
| 995    | 12500            | 12 9             |   |       | 25,600   | 74    | 23,300   | 66    | 20,600   | 58    | 17,900   | 52    | 11,400   | 42    |  |       |
| 1005   | 12625            | 13 2             |   |       |  |       | 23,900   | 70    | 21,500   | 62    | 18,800   | 56    | 15,700   | 47    | 10,700   | 34    |
| 1015   | 12750            | 13 4             |   |       |  |       | 24,500   | 72    | 22,200   | 66    | 19,700   | 58    | 16,800   | 50    | 12,700   | 40    |
| 1035   | 13000            | 13 9             |   |       |  |       | 26,000   | 80    | 23,700   | 72    | 21,200   | 66    | 18,000   | 58    | 15,200   | 48    |
| 1070   | 13500            | 15 0             |   |       |  |       |  |       | 26,400   | 88    | 24,400   | 80    | 21,900   | 72    | 19,300   | 64    |



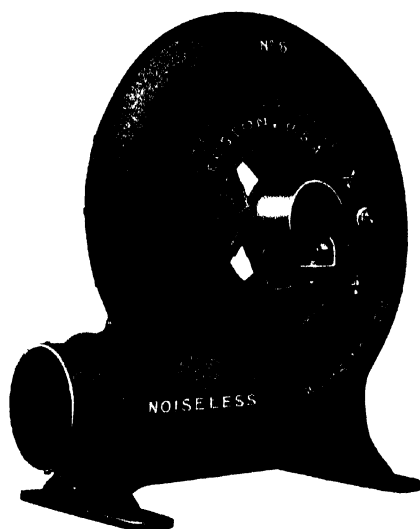
# **STEEL PRESSURE BLOWERS**

## **Design 2**

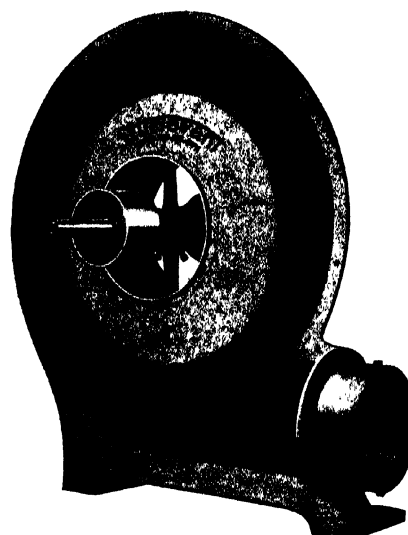
**Dimensions, Capacities, Horse Powers**



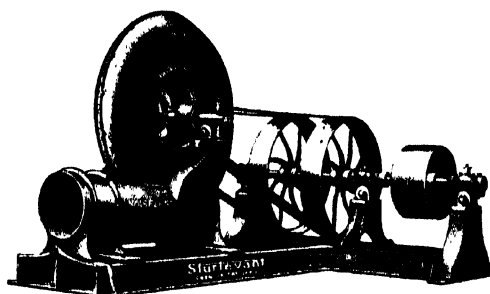
## Steel Pressure Blowers—Design 2



Steel Pressure Blower Design 2,  
Right Hand Bottom Horizontal Discharge



Steel Pressure Blower with Side  
Removed showing Wheel.



Steel Pressure Blower on Adjustable Bed,  
with Combined Countershaft.



## STEEL PRESSURE BLOWER—DESIGN 2

### SPECIFICATIONS

**General.** There shall be furnished a number.....Design No. 2. Sturtevant Steel Pressure Blower which shall be made double inlet, single width.....hand.....discharge and to have full housing. Fan shall be supplied with outlet.....inches diameter. Total height of fan housing shall be approximately.....inches, width of fan in the direction of the shaft approximately.....inches, length traverse to the shaft approximately.....inches. Fan shall have capacity of.....cubic feet of free air per minute against a resistance of.....inches of water at the fan outlet, when air is supplied freely to the inlet. Fan shall operate at approximately.....R. P. M. requiring approximately.....H. P.

**Housing.** Housing shall be of spiral form constructed of cast iron made in two halves, flanged and securely bolted together. These shall be split and planed at right angles to the shaft. Fan shall be supported by heavy cast-iron feet cast integral with fan casing. Fan casing shall be supplied with bearing brackets cast integral with the casing, excepting in the No. 10 size in which bearing brackets may be bolted on.

**Bearings.** Bearings shall be of the chair box type provided with suitable means for supplying continuous lubrication; shall be large diameter and extra long to give ample bearing support; shall be lined with best quality babbit containing upwards of 85 per cent. tin, bored and scraped to the exact size.

**Shaft.** Shaft shall be made of steel forging carefully turned, and after keyways are cut shall be accurately ground and polished.

**Wheels.** Blades of the blast wheel shall be made of refined steel plate, flanged and riveted to the side plates each of which shall also be made of refined steel plate, in one piece. Hub shall be made of cast composition for sizes No. 0000; and of malleable iron for sizes No. 00 to No. 5.

On sizes No. 6 to No. 10, hub shall be made of cast iron having cast integral with it and radiating from it steel arms with T section. Hub shall be accurately bored and fitted to shaft; to the outer end of the arms, steel blades shall be securely riveted. Wheels shall be carefully balanced.

## Steel Pressure Blower — Design 2

### APPROXIMATE WEIGHTS

| Size | Blower | Blower on<br>Adjustable Bed | Blower on<br>Adjustable Bed<br>with Countershaft |
|------|--------|-----------------------------|--|
| 0000 | 17     |                             |  |
| 00   | 35     |                             |  |
| 0    | 55     |                             |  |
| 1    | 85     |                             |  |
| 2    | 110    |                             |  |
| 3    | 155    |                             |  |
| 4    | 300    | 350                         | 700  |
| 5    | 375    | 500                         | 1100   |
| 6    | 575    | 650                         | 1475   |
| 7    | 840    | 1000                        | 2200   |
| 8    | 1125   | 1375                        | 3300   |
| 9    | 1650   | 2200                        | 4400   |
| 10   | 2650   | 2850                        | 6000   |

## **Steel Pressure Blower—Design 2**

### **EXPLANATION OF TABLES**

The general explanation of tables given at the front of this book applies without exception to the following tables.

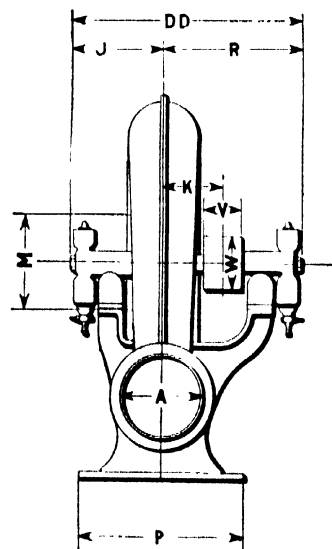
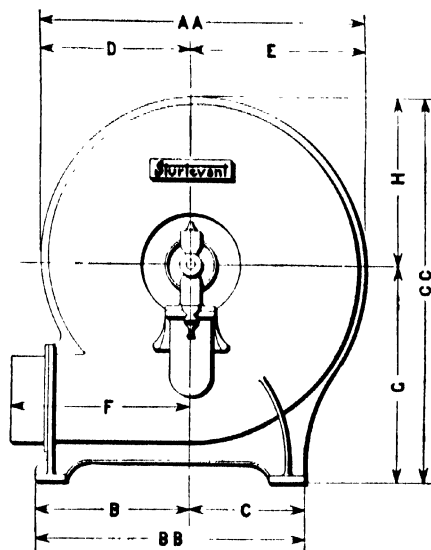
Double Inlet

## Steel Pressure Blower—Design 2

Single Width

Full Housing

Bottom Horizontal Discharge



| Fan Size | A                | B                | C                | D                | E                | F                | G                | H                | J                | K                | M                | P                | R                | V                | W                | AA               | BB               | CC               | DD               | Wheel Diameter   | Shaft Diameter in Bearing | Anchor Bolts  |
|----------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|---------------------------|---------------|
| 0000     | 2 $\frac{1}{2}$  | 6 $\frac{1}{8}$  | 3 $\frac{1}{2}$  | 4 $\frac{1}{2}$  | 5 $\frac{1}{2}$  | 7 $\frac{1}{8}$  | 6 $\frac{1}{2}$  | 5 $\frac{1}{2}$  | 4 $\frac{1}{2}$  | 2 $\frac{1}{8}$  | 3 $\frac{1}{2}$  | 5 $\frac{1}{2}$  | 5 $\frac{1}{2}$  | 1 $\frac{1}{2}$  | 1 $\frac{1}{2}$  | 10 $\frac{1}{2}$ | 9 $\frac{1}{8}$  | 11 $\frac{1}{2}$ | 9 $\frac{1}{2}$  | 7 $\frac{1}{8}$  | $\frac{3}{8}$             | $\frac{1}{4}$ |
| 00       | 3 $\frac{1}{2}$  | 6 $\frac{1}{8}$  | 4 $\frac{1}{2}$  | 6 $\frac{1}{2}$  | 7 $\frac{1}{2}$  | 7 $\frac{1}{2}$  | 8 $\frac{1}{2}$  | 6 $\frac{1}{2}$  | 5 $\frac{1}{2}$  | 2 $\frac{1}{2}$  | 4 $\frac{1}{2}$  | 9                | 7 $\frac{1}{2}$  | 1 $\frac{1}{2}$  | 2 $\frac{1}{2}$  | 13 $\frac{1}{2}$ | 11 $\frac{1}{8}$ | 15 $\frac{1}{2}$ | 12 $\frac{1}{2}$ | 9 $\frac{1}{2}$  | $\frac{9}{16}$            | $\frac{1}{4}$ |
| 0        | 4 $\frac{1}{2}$  | 7 $\frac{1}{8}$  | 5 $\frac{1}{2}$  | 7 $\frac{1}{2}$  | 8 $\frac{1}{2}$  | 8 $\frac{1}{2}$  | 10 $\frac{1}{2}$ | 7 $\frac{1}{2}$  | 5 $\frac{1}{2}$  | 3 $\frac{1}{2}$  | 5 $\frac{1}{2}$  | 9 $\frac{1}{2}$  | 8 $\frac{1}{2}$  | 2 $\frac{1}{2}$  | 3 $\frac{1}{2}$  | 15 $\frac{1}{2}$ | 13 $\frac{1}{8}$ | 17 $\frac{1}{2}$ | 14 $\frac{1}{2}$ | 10 $\frac{1}{2}$ | $\frac{1}{2}$             | $\frac{1}{4}$ |
| 1        | 4 $\frac{1}{2}$  | 8 $\frac{1}{2}$  | 6 $\frac{1}{2}$  | 8 $\frac{1}{2}$  | 9 $\frac{1}{2}$  | 10 $\frac{1}{2}$ | 11 $\frac{1}{2}$ | 9                | 6 $\frac{1}{2}$  | 4 $\frac{1}{2}$  | 6                | 10 $\frac{1}{2}$ | 9 $\frac{1}{2}$  | 2 $\frac{1}{2}$  | 3 $\frac{1}{2}$  | 18               | 15 $\frac{1}{2}$ | 20 $\frac{1}{2}$ | 16 $\frac{1}{2}$ | 12 $\frac{1}{2}$ | $\frac{3}{4}$             | $\frac{1}{2}$ |
| 2        | 5 $\frac{1}{2}$  | 10 $\frac{1}{2}$ | 7                | 9 $\frac{1}{2}$  | 11 $\frac{1}{2}$ | 11 $\frac{1}{2}$ | 13 $\frac{1}{2}$ | 10 $\frac{1}{2}$ | 7 $\frac{1}{2}$  | 4 $\frac{1}{2}$  | 7                | 13               | 10 $\frac{1}{2}$ | 2 $\frac{1}{2}$  | 3 $\frac{1}{2}$  | 21               | 17 $\frac{1}{2}$ | 24               | 17 $\frac{1}{2}$ | 14 $\frac{1}{8}$ | $\frac{1}{2}$             | $\frac{1}{2}$ |
| 3        | 6 $\frac{1}{2}$  | 12 $\frac{1}{2}$ | 8 $\frac{1}{2}$  | 11 $\frac{1}{2}$ | 12 $\frac{1}{2}$ | 14               | 15 $\frac{1}{2}$ | 12 $\frac{1}{2}$ | 8 $\frac{1}{2}$  | 5 $\frac{1}{2}$  | 8 $\frac{1}{2}$  | 15 $\frac{1}{2}$ | 12 $\frac{1}{2}$ | 3                | 4 $\frac{1}{2}$  | 24 $\frac{1}{2}$ | 20 $\frac{1}{2}$ | 27 $\frac{1}{2}$ | 21 $\frac{1}{2}$ | 17               | $\frac{1}{2}$             | $\frac{1}{2}$ |
| 4        | 7 $\frac{1}{2}$  | 14 $\frac{1}{2}$ | 9 $\frac{1}{2}$  | 13 $\frac{1}{2}$ | 15               | 16 $\frac{1}{2}$ | 18 $\frac{1}{2}$ | 14 $\frac{1}{2}$ | 8 $\frac{1}{2}$  | 5 $\frac{1}{2}$  | 9 $\frac{1}{2}$  | 16               | 13 $\frac{1}{2}$ | 4                | 6                | 28 $\frac{1}{2}$ | 24 $\frac{1}{2}$ | 33               | 21 $\frac{1}{2}$ | 19 $\frac{1}{2}$ | 1                         | $\frac{1}{2}$ |
| 5        | 8 $\frac{1}{2}$  | 16 $\frac{1}{2}$ | 12               | 15 $\frac{1}{2}$ | 18 $\frac{1}{2}$ | 19 $\frac{1}{2}$ | 22               | 17               | 10               | 8 $\frac{1}{2}$  | 10 $\frac{1}{2}$ | 18               | 19               | 4 $\frac{1}{2}$  | 7 $\frac{1}{2}$  | 34               | 28 $\frac{1}{2}$ | 39               | 29               | 22 $\frac{1}{2}$ | 1 $\frac{1}{4}$           | $\frac{1}{2}$ |
| 6        | 10 $\frac{1}{2}$ | 18 $\frac{1}{2}$ | 13               | 18 $\frac{1}{2}$ | 20 $\frac{1}{2}$ | 22 $\frac{1}{2}$ | 25 $\frac{1}{2}$ | 19 $\frac{1}{2}$ | 11 $\frac{1}{2}$ | 9 $\frac{1}{2}$  | 12 $\frac{1}{2}$ | 19 $\frac{1}{2}$ | 21 $\frac{1}{2}$ | 5 $\frac{1}{2}$  | 7 $\frac{1}{2}$  | 39 $\frac{1}{2}$ | 31 $\frac{1}{2}$ | 45               | 32 $\frac{1}{2}$ | 26               | 1 $\frac{1}{8}$           | $\frac{1}{2}$ |
| 7        | 12               | 22               | 17 $\frac{1}{2}$ | 21 $\frac{1}{2}$ | 24 $\frac{1}{2}$ | 26               | 29 $\frac{1}{2}$ | 22 $\frac{1}{2}$ | 12 $\frac{1}{2}$ | 10 $\frac{1}{2}$ | 15               | 24               | 23 $\frac{1}{2}$ | 6 $\frac{1}{2}$  | 9 $\frac{1}{2}$  | 45 $\frac{1}{2}$ | 39 $\frac{1}{2}$ | 52               | 35 $\frac{1}{2}$ | 30 $\frac{1}{2}$ | 1 $\frac{1}{2}$           | $\frac{1}{2}$ |
| 8        | 13 $\frac{1}{2}$ | 25 $\frac{1}{2}$ | 19 $\frac{1}{2}$ | 24 $\frac{1}{2}$ | 27 $\frac{1}{2}$ | 30 $\frac{1}{2}$ | 33 $\frac{1}{2}$ | 26               | 14 $\frac{1}{2}$ | 11 $\frac{1}{2}$ | 17 $\frac{1}{2}$ | 26 $\frac{1}{2}$ | 26 $\frac{1}{2}$ | 8 $\frac{1}{2}$  | 10 $\frac{1}{2}$ | 52               | 45               | 59 $\frac{1}{2}$ | 41 $\frac{1}{2}$ | 36               | 1 $\frac{1}{4}$           | $\frac{1}{2}$ |
| 9        | 16               | 29 $\frac{1}{2}$ | 23 $\frac{1}{2}$ | 28 $\frac{1}{2}$ | 32               | 34 $\frac{1}{2}$ | 39 $\frac{1}{2}$ | 30 $\frac{1}{2}$ | 16 $\frac{1}{2}$ | 14 $\frac{1}{2}$ | 20 $\frac{1}{2}$ | 32 $\frac{1}{2}$ | 29 $\frac{1}{2}$ | 10 $\frac{1}{2}$ | 12 $\frac{1}{2}$ | 60 $\frac{1}{2}$ | 53 $\frac{1}{2}$ | 69 $\frac{1}{2}$ | 46 $\frac{1}{2}$ | 40               | 1 $\frac{1}{2}$           | $\frac{1}{2}$ |
| 10       | 18 $\frac{1}{2}$ | 34 $\frac{1}{2}$ | 25 $\frac{1}{2}$ | 32 $\frac{1}{2}$ | 37               | 39 $\frac{1}{2}$ | 45 $\frac{1}{2}$ | 35 $\frac{1}{2}$ | 22 $\frac{1}{2}$ | 21               | 24               | 36               | 39 $\frac{1}{2}$ | 15               | 16               | 69 $\frac{1}{2}$ | 60 $\frac{1}{2}$ | 80 $\frac{1}{2}$ | 62 $\frac{1}{2}$ | 48               | 2 $\frac{1}{8}$           | 1             |

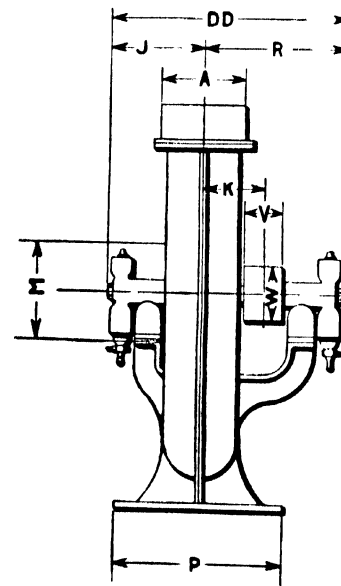
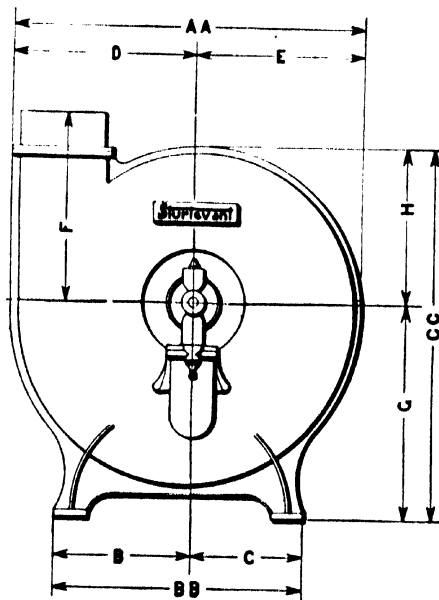
Double Inlet .

**Steel Pressure Blower—Design 2**

Single Width

Full Housing

Up Blast Discharge



| Fan Size | A   | B   | C   | D   | E   | F   | G   | H   | J   | K   | M   | P   | R   | V   | W   | AA  | BB  | CC  | DD  | Wheel Diameter | Anchor Bolts | Shaft Diameter |
|----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------------|--------------|----------------|
| (0000)   | 2½  | 4½  | 4½  | 5½  | 5½  | 7½  | 6½  | 4½  | 4½  | 2½  | 3½  | 5½  | 5½  | 1½  | 1½  | 11  | 9   | 11½ | 9½  | 7½             | 1            | 1              |
| (00)     | 3½  | 5½  | 5½  | 7½  | 6½  | 7½  | 8½  | 6½  | 5½  | 2½  | 4½  | 8½  | 7½  | 1½  | 2½  | 14½ | 11½ | 14½ | 12½ | 9½             | 1            | 1½             |
| 0        | 4   | 6½  | 6½  | 8½  | 7½  | 8½  | 9½  | 7½  | 5½  | 3½  | 5½  | 9½  | 8½  | 2½  | 3   | 16½ | 13  | 16½ | 14½ | 10½            | 1            | 1½             |
| 1        | 4½  | 8½  | 7½  | 10½ | 9   | 10½ | 11  | 8½  | 6½  | 4½  | 6   | 11  | 9½  | 2½  | 3½  | 19½ | 15½ | 19½ | 16½ | 12½            | 1            | 1½             |
| 2        | 5½  | 9   | 8   | 11½ | 10½ | 11½ | 12½ | 9½  | 7½  | 4½  | 7   | 13½ | 10½ | 2½  | 3½  | 22½ | 17  | 22½ | 17½ | 14½            | 1            | 1½             |
| 3        | 6½  | 9½  | 8½  | 13½ | 12½ | 14  | 15  | 11½ | 8½  | 5½  | 8½  | 15½ | 12½ | 3   | 4½  | 25½ | 18½ | 26½ | 21½ | 17             | 1            | 1½             |
| 4        | 7½  | 12  | 9½  | 15½ | 14½ | 16½ | 17½ | 13½ | 8½  | 5½  | 9½  | 16½ | 13½ | 4   | 6   | 30  | 21½ | 30½ | 21½ | 19½            | 1            | 1              |
| 5        | 8½  | 14  | 11½ | 19½ | 17  | 19½ | 17  | 15½ | 10  | 8½  | 10½ | 17½ | 19  | 4½  | 7½  | 36½ | 25½ | 37½ | 29  | 22½            | 1            | 1½             |
| 6        | 10½ | 17  | 12½ | 21½ | 19½ | 22½ | 24½ | 18½ | 11½ | 9½  | 12½ | 19½ | 21½ | 5½  | 7½  | 41½ | 29½ | 43  | 32½ | 26             | 1            | 1½             |
| 7        | 12  | 18½ | 18½ | 25½ | 22½ | 26  | 25½ | 21½ | 12½ | 10½ | 15  | 24  | 23½ | 6½  | 9½  | 48½ | 36½ | 46½ | 35½ | 30½            | 1            | 1½             |
| 8        | 13½ | 20  | 19  | 29  | 26  | 30½ | 31½ | 24½ | 14½ | 11½ | 17½ | 26½ | 26½ | 8½  | 10½ | 55  | 39  | 55½ | 41½ | 36             | 1            | 1½             |
| 9        | 16  | 25½ | 23½ | 33½ | 30½ | 34½ | 33½ | 28½ | 16½ | 14½ | 20½ | 32½ | 29½ | 10½ | 12½ | 64  | 49½ | 62½ | 46½ | 40             | 1            | 1½             |
| 10       | 18½ | 27½ | 27½ | 39½ | 35½ | 39½ | 43  | 32½ | 22½ | 21  | 24  | 36  | 30½ | 15  | 16  | 74½ | 54½ | 75½ | 62½ | 48             | 1            | 2½             |

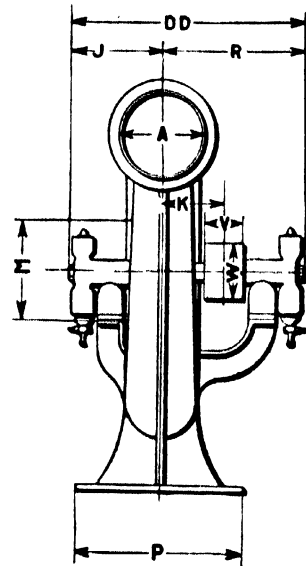
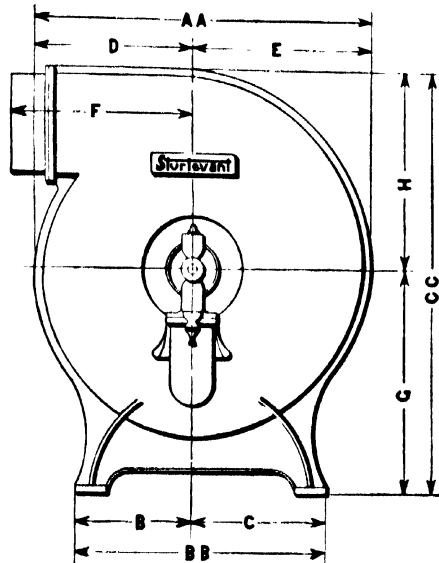
Double Inlet

## Steel Pressure Blower—Design 2

Single Width

Full Housing

Top Horizontal Discharge



| Fan Size | A   | B   | C   | D   | E   | F   | G   | H   | J   | K   | M   | P   | R   | V   | W   | AA  | BB  | CC  | DD  | Wheel Diameter | Shaft Diameter in Bearing | Anchor Bolts |
|----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------------|---------------------------|--------------|
| 0000     | 2½  | 3½  | 4½  | 4½  | 5½  | 7½  | 5½  | 5½  | 4½  | 2½  | 3½  | 5½  | 5½  | 1½  | 1½  | 12½ | 7½  | 11½ | 9½  | 7½             | ½                         | ½            |
| 00       | 3½  | 5½  | 5½  | 6½  | 7½  | 7½  | 7½  | 7½  | 5½  | 2½  | 4½  | 9½  | 7½  | 1½  | 2½  | 14½ | 11½ | 15½ | 12½ | 9½             | ½                         | ½            |
| 0        | 4   | 5½  | 6½  | 7½  | 8½  | 8½  | 9   | 8½  | 5½  | 3½  | 5½  | 9½  | 8½  | 2½  | 3   | 17½ | 12½ | 17½ | 14½ | 10½            | ½                         | ½            |
| 1        | 4½  | 7½  | 7½  | 8½  | 9½  | 10½ | 10½ | 10½ | 6½  | 4½  | 6   | 10½ | 9½  | 2½  | 3½  | 19½ | 14½ | 20½ | 16½ | 12½            | ½                         | ½            |
| 2        | 5½  | 7½  | 9   | 9½  | 11½ | 11½ | 12  | 11½ | 7½  | 4½  | 7   | 13½ | 10½ | 2½  | 3½  | 22½ | 16½ | 23½ | 17½ | 14½            | ½                         | ½            |
| 3        | 6½  | 8½  | 10  | 11½ | 12½ | 14  | 14  | 13½ | 8½  | 5½  | 8½  | 15½ | 12½ | 3   | 4½  | 26½ | 18½ | 27½ | 21½ | 17½            | ½                         | ½            |
| 4        | 7½  | 10½ | 12½ | 13½ | 15  | 16½ | 15½ | 15½ | 8½  | 5½  | 9½  | 16  | 13½ | 4   | 6   | 31½ | 22½ | 31½ | 21½ | 19½            | 1                         | ½            |
| 5        | 8½  | 11½ | 14½ | 15½ | 18½ | 19½ | 19  | 19½ | 10  | 8½  | 10½ | 18  | 19  | 4½  | 7½  | 37½ | 26  | 38½ | 29  | 22½            | 1½                        | ½            |
| 6        | 10½ | 16½ | 16  | 18½ | 20½ | 22½ | 23½ | 21½ | 11½ | 9½  | 12½ | 19½ | 21½ | 5½  | 7½  | 43  | 32½ | 44½ | 32½ | 26             | 1½                        | ½            |
| 7        | 12  | 17½ | 18½ | 21½ | 24½ | 26  | 24½ | 25½ | 12½ | 10½ | 15  | 24  | 23½ | 6½  | 9½  | 50½ | 36½ | 50  | 35½ | 30½            | 1½                        | ½            |
| 8        | 13½ | 18½ | 20  | 24½ | 27½ | 30½ | 29  | 29  | 14½ | 11½ | 17½ | 26½ | 26½ | 8½  | 10½ | 57½ | 38½ | 58  | 41½ | 36             | 1½                        | ½            |
| 9        | 16  | 23½ | 26  | 28½ | 32  | 34½ | 32½ | 33½ | 16½ | 14½ | 20½ | 32½ | 29½ | 10½ | 12½ | 66½ | 49½ | 66½ | 46½ | 40             | 1½                        | ½            |
| 10       | 18½ | 27  | 30½ | 32½ | 37  | 39½ | 40  | 39½ | 22½ | 21  | 24  | 36  | 39½ | 15  | 16  | 76½ | 57½ | 79½ | 62½ | 48             | 2½                        | 1            |

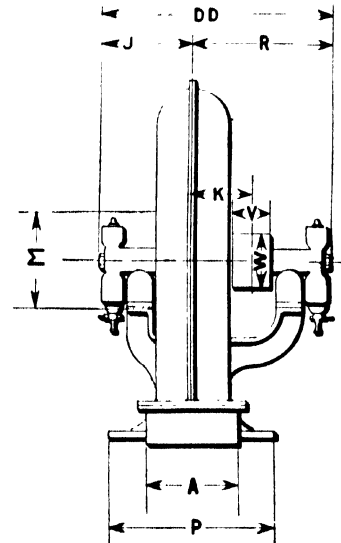
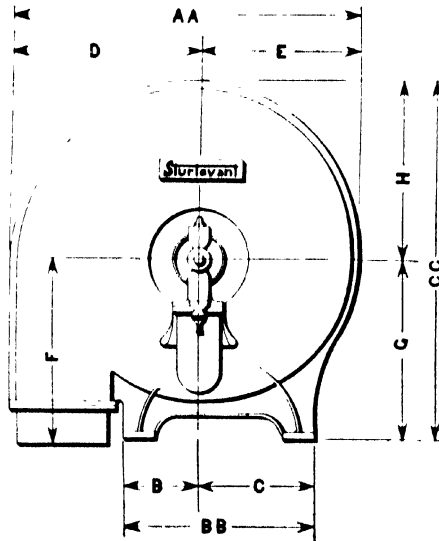
Double Inlet

## Steel Pressure Blower—Design 2

Single Width

Full Housing

Down Blast Discharge



| Fan Size | A      | B      | C      | D      | E      | F      | G      | H      | J      | K      | M      | P      | R      | V      | W      | AA     | BB     | CC     | DD     | Wheel Diameter | Shaft Diameter | Anchor Bolts |
|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------------|----------------|--------------|
| (0000)   | 2 1/4  | 3 1/8  | 3 1/8  | 5 1/8  | 5 1/8  | 7 1/8  | 5 1/8  | 5 1/8  | 4 1/8  | 2 1/8  | 3 1/8  | 5 1/8  | 5 1/8  | 1 1/8  | 1 1/8  | 11     | 7 1/8  | 11     | 9 1/8  | 7 1/8          | 3/8            | 1/4          |
| (00)     | 3 1/4  | 2 1/4  | 5 1/8  | 7 1/8  | 6 1/8  | 7 1/8  | 7 1/8  | 7 1/8  | 5 1/8  | 2 1/8  | 4 1/8  | 9      | 7 1/8  | 1 1/8  | 2 1/8  | 14 1/8 | 8 1/8  | 14 1/8 | 12 1/8 | 9 1/8          | 3/8            | 1/4          |
| 0        | 4      | 6 1/8  | 6 1/8  | 8 1/8  | 7 1/8  | 8 1/8  | 7      | 8 1/8  | 5 1/8  | 3 1/8  | 5 1/8  | 9 1/8  | 8 1/8  | 2 1/8  | 3      | 16 1/8 | 12 1/8 | 15 1/8 | 14 1/8 | 10 1/8         | 1/2            | 1/4          |
| 1        | 4 1/8  | 4      | 6 1/8  | 10 1/8 | 9      | 10 1/8 | 9 1/8  | 9 1/8  | 6 1/8  | 4 1/8  | 6      | 10 1/8 | 9 1/8  | 2 1/8  | 3 1/8  | 19 1/8 | 10 1/8 | 19 1/8 | 16 1/8 | 12 1/8         | 3/4            | 3/8          |
| 2        | 5 1/8  | 5      | 8 1/8  | 11 1/8 | 10 1/8 | 11 1/8 | 11 1/8 | 11 1/8 | 7 1/8  | 4 1/8  | 7      | 13     | 10 1/8 | 2 1/8  | 3 1/8  | 22 1/8 | 13 1/8 | 22 1/8 | 17 1/8 | 14 1/8         | 1/2            | 1/4          |
| 3        | 6 1/8  | 5 1/8  | 9 1/8  | 13 1/8 | 12 1/8 | 14     | 13     | 12 1/8 | 8 1/8  | 5 1/8  | 8 1/8  | 15 1/8 | 12 1/8 | 3      | 4 1/8  | 25 1/8 | 14 1/8 | 25 1/8 | 21 1/8 | 17             | 1/2            | 1/4          |
| 4        | 7 1/8  | 5 1/8  | 14 1/8 | 15 1/8 | 14 1/8 | 16 1/8 | 15 1/8 | 15     | 8 1/8  | 5 1/8  | 9 1/8  | 16     | 13 1/8 | 4      | 6      | 30     | 20 1/8 | 30 1/8 | 21 1/8 | 19 1/8         | 1              | 3/8          |
| 5        | 8 1/8  | 8      | 12 1/8 | 19 1/8 | 17     | 19 1/8 | 17 1/8 | 18 1/8 | 10     | 8 1/8  | 10 1/8 | 18     | 19     | 4 1/8  | 7 1/8  | 36 1/8 | 20 1/8 | 35 1/8 | 29     | 22 1/8         | 1 1/8          | 3/8          |
| 6        | 10 1/8 | 8 1/8  | 15     | 21 1/8 | 19 1/8 | 22 1/8 | 21 1/8 | 20 1/8 | 11 1/8 | 9 1/8  | 12 1/8 | 19 1/8 | 21 1/8 | 5 1/8  | 7 1/8  | 41 1/8 | 23 1/8 | 41 1/8 | 32 1/8 | 26             | 1 1/8          | 3/8          |
| 7        | 12     | 11     | 18     | 25 1/8 | 22 1/8 | 26     | 24     | 24 1/8 | 12 1/8 | 10 1/8 | 15     | 24     | 23 1/8 | 6 1/8  | 9 1/8  | 48 1/8 | 29     | 48 1/8 | 35 1/8 | 30 1/8         | 1 1/2          | 3/4          |
| 8        | 13 1/8 | 18 1/8 | 19 1/8 | 29     | 26     | 30 1/8 | 23 1/8 | 27 1/8 | 14 1/8 | 11 1/8 | 17 1/8 | 26 1/8 | 26 1/8 | 8 1/8  | 10 1/8 | 55     | 37 1/8 | 51 1/8 | 41 1/8 | 36             | 1 1/2          | 3/4          |
| 9        | 16     | 15     | 25     | 33 1/8 | 30 1/8 | 34 1/8 | 31     | 32     | 16 1/8 | 14 1/8 | 20 1/8 | 32 1/8 | 29 1/8 | 10 1/8 | 12 1/8 | 64     | 40     | 63     | 46 1/8 | 40             | 1 1/2          | 3/4          |
| 10       | 18 1/8 | 18 1/8 | 27 1/8 | 39 1/8 | 35 1/8 | 39 1/8 | 37     | 37     | 22 1/8 | 21     | 24     | 36     | 39 1/8 | 15     | 16     | 74 1/8 | 45 1/8 | 74     | 62 1/8 | 48             | 2 1/8          | 1            |

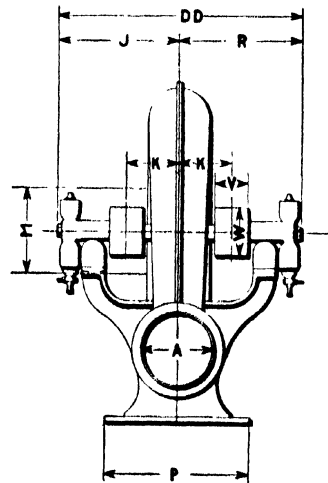
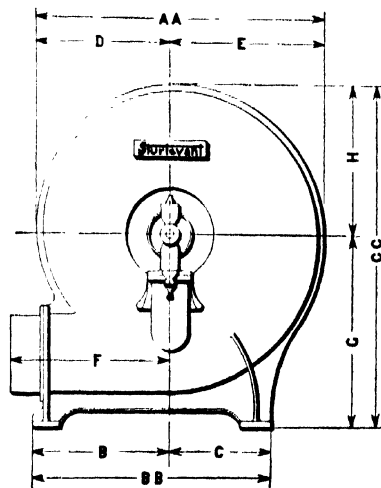
Double Inlet

## Steel Pressure Blower—Design 2

Single Width

Full Housing

Bottom Horizontal Discharge



| Fan Size | A      | B      | C      | D      | E      | F      | G      | H      | J      | K      | M      | P      | R      | V      | W      | AA     | BB     | CC     | DD     | Extreme Wheel Diameter | Shaft Dia. | Anchor Bolts Fan |
|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------------------------|------------|------------------|
| 4 0      | 2 1/4  | 6 1/4  | 3 1/4  | 4 3/4  | 5 1/4  | 7 1/4  | 6 7/8  | 5 1/4  | 4 1/4  | 21 1/4 | 3 5/8  | 5 1/4  | 4 1/4  | 1 1/4  | 1 1/4  | 10 1/4 | 9 1/4  | 12     | 9 1/4  | 7 1/4                  | 1 1/4      | 1 1/4            |
| 4 2      | 3 1/4  | 6 3/4  | 5      | 6 1/4  | 7 1/4  | 7 1/4  | 8 1/4  | 6 1/4  | 6 1/4  | 3 1/4  | 4 1/4  | 9 1/4  | 6 1/4  | 2 1/4  | 2 1/4  | 13 1/4 | 11 1/4 | 15 1/4 | 12 1/4 | 9 1/4                  | 1 1/4      | 1 1/4            |
| 4 4      | 4 1/4  | 7 1/4  | 6      | 7 1/4  | 8 1/4  | 9 1/4  | 10 1/4 | 7 1/4  | 7 1/4  | 3 1/4  | 5 1/4  | 9 1/4  | 7 1/4  | 2 1/4  | 2 1/4  | 15 1/4 | 13 1/4 | 18 1/4 | 14 1/4 | 10 1/4                 | 1 1/4      | 1 1/4            |
| 1        | 4 1/4  | 8 1/4  | 6 7/8  | 8 1/4  | 9 1/4  | 10 1/4 | 11 1/4 | 9      | 8 1/4  | 4 1/4  | 6 1/4  | 10 1/4 | 8 1/4  | 2 1/4  | 2 1/4  | 18 1/4 | 15 1/4 | 20 1/4 | 16 1/4 | 12 1/4                 | 1 1/4      | 1 1/4            |
| 2        | 5 1/4  | 10 1/4 | 7      | 9 7/8  | 11 1/4 | 11 1/4 | 13 1/4 | 10 1/4 | 9      | 4 1/4  | 7 1/4  | 13 1/4 | 9      | 2 1/4  | 2 1/4  | 21 1/4 | 17 1/4 | 24 1/4 | 18 1/4 | 14 1/4                 | 1 1/4      | 1 1/4            |
| 3        | 6 1/4  | 12 1/4 | 8      | 11 1/4 | 12 1/4 | 11 1/4 | 16 1/4 | 12 1/4 | 10 1/4 | 4 1/4  | 8 1/4  | 15 1/4 | 10 1/4 | 3      | 3      | 24 1/4 | 21 1/4 | 28 1/4 | 20 1/4 | 17 1/4                 | 1 1/4      | 1 1/4            |
| 4        | 7 1/4  | 14 1/4 | 9      | 13 1/4 | 15 1/4 | 16 1/4 | 18 1/4 | 14 1/4 | 13     | 5 1/4  | 9 1/4  | 16 1/4 | 13     | 4      | 4      | 28 1/4 | 24 1/4 | 32 1/4 | 26 1/4 | 19 1/4                 | 1 1/4      | 1 1/4            |
| 5        | 8 1/4  | 16 1/4 | 12     | 15 1/4 | 18 1/4 | 19 1/4 | 22 1/4 | 17 1/4 | 11 1/4 | 6 1/4  | 10 1/4 | 18 1/4 | 11 1/4 | 4 1/4  | 4 1/4  | 31 1/4 | 28 1/4 | 39 1/4 | 29 1/4 | 22 1/4                 | 1 1/4      | 1 1/4            |
| 6        | 10 1/4 | 18 1/4 | 13 1/4 | 18 1/4 | 20 1/4 | 22 1/4 | 25 1/4 | 19 1/4 | 17 1/4 | 7 1/4  | 12 1/4 | 19 1/4 | 17 1/4 | 5 1/4  | 5 1/4  | 39 1/4 | 32 1/4 | 45 1/4 | 34 1/4 | 25 1/4                 | 1 1/4      | 1 1/4            |
| 7        | 12 1/4 | 22 1/4 | 17 1/4 | 21 1/4 | 24 1/4 | 26 1/4 | 29 1/4 | 22 1/4 | 20 1/4 | 9 1/4  | 15 1/4 | 23 1/4 | 20 1/4 | 6 1/4  | 6 1/4  | 45 1/4 | 40 1/4 | 51 1/4 | 40 1/4 | 31 1/4                 | 1 1/4      | 1 1/4            |
| 8        | 13 1/4 | 25 1/4 | 19 1/4 | 24 1/4 | 27 1/4 | 30 1/4 | 33 1/4 | 26 1/4 | 23 1/4 | 10 1/4 | 17 1/4 | 26 1/4 | 23 1/4 | 8 1/4  | 8 1/4  | 52 1/4 | 45 1/4 | 59 1/4 | 46 1/4 | 38 1/4                 | 1 1/4      | 1 1/4            |
| 9        | 16 1/4 | 30 1/4 | 23 1/4 | 28 1/4 | 32 1/4 | 35 1/4 | 39 1/4 | 30 1/4 | 25 1/4 | 11 1/4 | 20 1/4 | 32 1/4 | 25 1/4 | 10 1/4 | 12 1/4 | 60 1/4 | 53 1/4 | 69 1/4 | 51 1/4 | 41 1/4                 | 1 1/4      | 1 1/4            |
| 10       | 18 1/4 | 34 1/4 | 25 1/4 | 32 1/4 | 37 1/4 | 39 1/4 | 45 1/4 | 35 1/4 | 30 1/4 | 13 1/4 | 24 1/4 | 36 1/4 | 30 1/4 | 15 1/4 | 16 1/4 | 69 1/4 | 60 1/4 | 80 1/4 | 60 1/4 | 47 1/4                 | 2 1/4      | 1 1/4            |



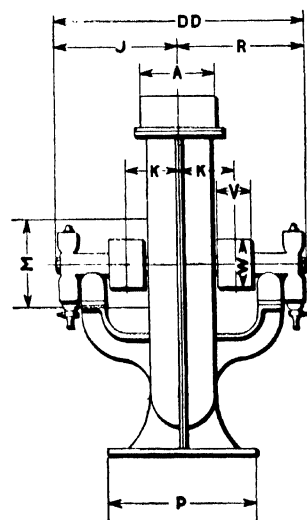
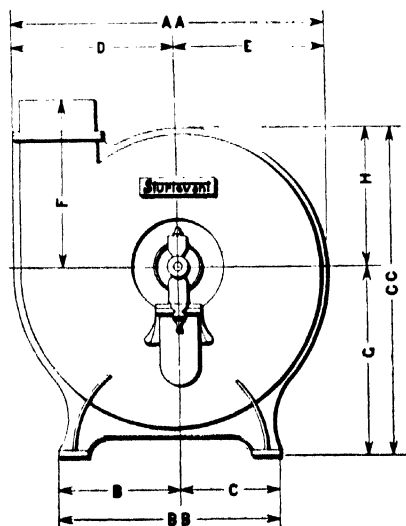
Double Inlet

## Steel Pressure Blower—Design 2

Single Width

Full Housing

Up Blast Discharge



| Frame Size | A  | B  | C  | D  | E  | F  | G  | H  | J  | K  | M  | P  | R  | V  | W  | AA | BB | CC | DD | Extreme Wheel Diameter | Shaft Dia. | Anchor Bolts Fan |
|------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|------------------------|------------|------------------|
| 4/0        | 21 | 4  | 4  | 5  | 5  | 7  | 6  | 4  | 4  | 2  | 3  | 5  | 4  | 1  | 1  | 10 | 9  | 12 | 9  | 7                      | 3          | 1                |
| 2/0        | 3  | 5  | 5  | 7  | 6  | 7  | 8  | 6  | 6  | 3  | 4  | 9  | 6  | 2  | 2  | 14 | 11 | 14 | 12 | 9                      | 3          | 1                |
| 0          | 4  | 7  | 6  | 8  | 7  | 9  | 9  | 7  | 7  | 3  | 5  | 9  | 7  | 2  | 3  | 16 | 13 | 16 | 14 | 10                     | 3          | 1                |
| 1          | 4  | 8  | 7  | 10 | 9  | 10 | 11 | 8  | 8  | 4  | 6  | 10 | 8  | 2  | 3  | 19 | 15 | 19 | 16 | 12                     | 4          | 1                |
| 2          | 5  | 9  | 8  | 11 | 10 | 11 | 12 | 9  | 9  | 4  | 7  | 13 | 9  | 2  | 3  | 22 | 17 | 22 | 18 | 14                     | 4          | 1                |
| 3          | 6  | 10 | 9  | 13 | 12 | 14 | 15 | 11 | 10 | 4  | 8  | 15 | 10 | 3  | 4  | 25 | 19 | 26 | 20 | 17                     | 1          | 1                |
| 4          | 7  | 12 | 10 | 15 | 14 | 16 | 17 | 13 | 13 | 5  | 9  | 16 | 13 | 4  | 5  | 30 | 22 | 30 | 26 | 19                     | 1          | 1                |
| 5          | 8  | 14 | 11 | 19 | 17 | 19 | 21 | 15 | 14 | 6  | 10 | 18 | 14 | 4  | 6  | 36 | 25 | 37 | 29 | 22                     | 1          | 1                |
| 6          | 10 | 17 | 12 | 21 | 19 | 22 | 24 | 18 | 17 | 7  | 12 | 19 | 17 | 5  | 7  | 41 | 29 | 42 | 34 | 25                     | 1          | 1                |
| 7          | 12 | 18 | 18 | 25 | 22 | 26 | 28 | 21 | 20 | 9  | 15 | 24 | 20 | 6  | 9  | 48 | 36 | 46 | 40 | 31                     | 1          | 1                |
| 8          | 13 | 20 | 18 | 29 | 26 | 30 | 31 | 24 | 23 | 10 | 17 | 26 | 23 | 8  | 10 | 55 | 38 | 55 | 46 | 38                     | 1          | 1                |
| 9          | 16 | 25 | 23 | 33 | 30 | 35 | 34 | 28 | 25 | 11 | 20 | 32 | 25 | 10 | 12 | 64 | 59 | 62 | 51 | 41                     | 1          | 1                |
| 10         | 18 | 27 | 27 | 39 | 35 | 39 | 42 | 32 | 30 | 13 | 24 | 36 | 30 | 15 | 16 | 74 | 54 | 74 | 60 | 47                     | 2          | 1                |

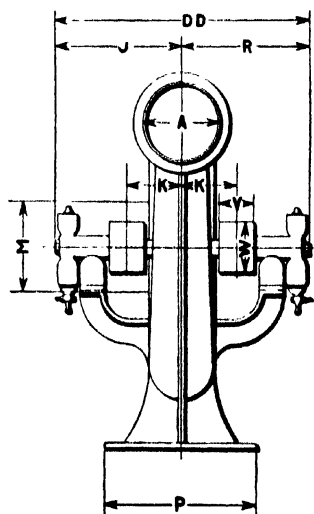
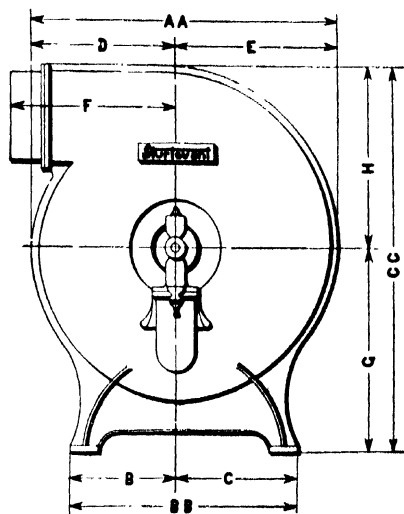
Double Inlet

## Steel Pressure Blower—Design 2

Single Width

Full Housing

Top Horizontal Discharge



| Size<br>Inches | A      | B      | C      | D      | E      | F      | G      | H      | J      | K      | M      | P      | R      | V      | W      | AA     | BB     | CC     | DD     | Extreme<br>Wheel<br>Diameter | Shaft<br>Dia. | Anchor<br>Bolts<br>Dia. |
|----------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------------------------------|---------------|-------------------------|
| 4/0            | 2 1/4  | 4      | 4 1/4  | 4 1/4  | 5 1/4  | 7 1/4  | 6      | 5 1/4  | 4 1/4  | 2 1/4  | 3 1/4  | 5 1/4  | 4 1/4  | 1 1/4  | 1 7/8  | 10 1/4 | 8 1/4  | 11 1/4 | 9 1/4  | 7 1/4                        | 1 1/4         | 1 1/4                   |
| 2/0            | 3 1/4  | 5 1/4  | 5 1/4  | 6 1/4  | 7 1/4  | 7 1/4  | 7 1/4  | 7 1/4  | 6 1/4  | 3 1/4  | 4 1/4  | 9 1/4  | 6 1/4  | 2 1/4  | 2 1/4  | 13 1/4 | 11 1/4 | 15 1/4 | 12 1/4 | 9 1/4                        | 1 1/4         | 1 1/4                   |
| 0              | 4      | 6      | 7      | 7 1/4  | 8 1/4  | 9      | 9      | 8 1/4  | 7 1/4  | 3 1/4  | 5 1/4  | 9 1/4  | 7 1/4  | 2 1/4  | 3      | 15 1/4 | 13 1/4 | 17 1/4 | 14 1/4 | 10 1/4                       | 1 1/4         | 1 1/4                   |
| 1              | 4 1/4  | 7      | 8      | 8 1/4  | 9 1/4  | 10 1/4 | 10 1/4 | 10 1/4 | 8 1/4  | 4 1/4  | 6 1/4  | 10 1/4 | 8 1/4  | 2 1/4  | 3      | 18 1/4 | 15 1/4 | 20 1/4 | 16 1/4 | 12 1/4                       | 1 1/4         | 1 1/4                   |
| 2              | 5 1/4  | 8      | 9      | 9 1/4  | 11 1/4 | 11 1/4 | 12     | 11 1/4 | 9      | 4 1/4  | 7 1/4  | 13     | 9      | 2 1/4  | 3      | 21 1/4 | 17 1/4 | 23 1/4 | 18 1/4 | 14 1/4                       | 1 1/4         | 1 1/4                   |
| 3              | 6 1/4  | 9      | 10     | 11 1/4 | 12 1/4 | 14 1/4 | 14     | 13 1/4 | 10 1/4 | 4 1/4  | 8 1/4  | 15 1/4 | 10 1/4 | 3      | 4 1/4  | 24 1/4 | 19 1/4 | 27 1/4 | 20 1/4 | 17 1/4                       | 1 1/4         | 1 1/4                   |
| 4              | 7 1/4  | 10 1/4 | 12 1/4 | 13 1/4 | 15 1/4 | 16 1/4 | 15 1/4 | 15 1/4 | 13 1/4 | 5 1/4  | 9 1/4  | 16 1/4 | 13 1/4 | 4      | 5 1/4  | 28 1/4 | 22 1/4 | 30 1/4 | 26 1/4 | 19 1/4                       | 1 1/4         | 1 1/4                   |
| 5              | 8 1/4  | 12 1/4 | 14 1/4 | 15 1/4 | 18 1/4 | 19 1/4 | 19     | 19 1/4 | 14 1/4 | 6 1/4  | 10 1/4 | 18 1/4 | 14 1/4 | 4 1/4  | 6 1/4  | 34 1/4 | 26 1/4 | 38 1/4 | 29 1/4 | 22 1/4                       | 1 1/4         | 1 1/4                   |
| 6              | 10 1/4 | 16 1/4 | 16 1/4 | 18 1/4 | 20 1/4 | 22 1/4 | 23 1/4 | 21 1/4 | 17 1/4 | 7 1/4  | 12 1/4 | 19 1/4 | 17 1/4 | 5 1/4  | 7 1/4  | 39 1/4 | 32 1/4 | 45 1/4 | 34 1/4 | 25 1/4                       | 1 1/4         | 1 1/4                   |
| 7              | 12 1/4 | 17 1/4 | 19 1/4 | 21 1/4 | 24 1/4 | 26 1/4 | 24 1/4 | 25 1/4 | 20 1/4 | 9 1/4  | 15 1/4 | 24 1/4 | 20 1/4 | 6 1/4  | 9 1/4  | 45 1/4 | 36 1/4 | 50 1/4 | 40 1/4 | 31 1/4                       | 1 1/4         | 1 1/4                   |
| 8              | 13 1/4 | 18 1/4 | 20 1/4 | 24 1/4 | 27 1/4 | 30 1/4 | 29     | 29     | 23 1/4 | 10 1/4 | 17 1/4 | 26 1/4 | 23 1/4 | 8 1/4  | 10 1/4 | 52 1/4 | 38 1/4 | 58 1/4 | 46 1/4 | 38 1/4                       | 1 1/4         | 1 1/4                   |
| 9              | 16 1/4 | 24 1/4 | 26 1/4 | 28 1/4 | 32 1/4 | 35 1/4 | 32 1/4 | 33 1/4 | 25 1/4 | 11 1/4 | 20 1/4 | 32 1/4 | 25 1/4 | 10 1/4 | 12 1/4 | 60 1/4 | 50 1/4 | 66 1/4 | 51 1/4 | 41 1/4                       | 1 1/4         | 1 1/4                   |
| 10             | 18 1/4 | 27 1/4 | 30 1/4 | 32 1/4 | 37 1/4 | 39 1/4 | 40 1/4 | 39 1/4 | 30 1/4 | 13 1/4 | 24 1/4 | 36 1/4 | 30 1/4 | 15 1/4 | 16 1/4 | 69 1/4 | 57 1/4 | 79 1/4 | 60 1/4 | 47 1/4                       | 2 1/4         | 1 1/4                   |



Double Inlet

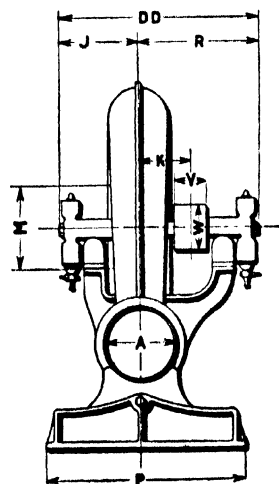
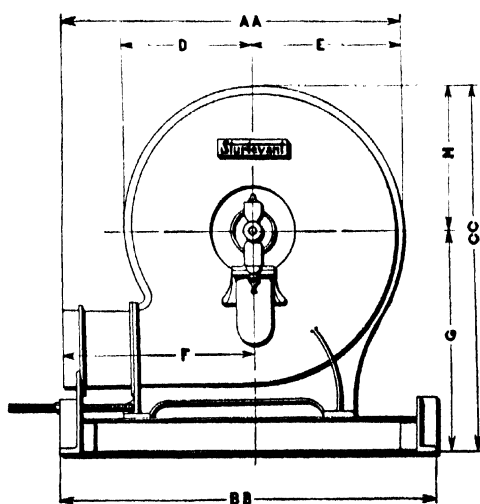
# Steel Pressure Blower—Design 2

Single Width

On Adjustable Bed

Full Housing

Bottom Horizontal Discharge



| Fan Size | A                | D                | E                | F                | G                | H                | J                | K                | M                | P                | R                | V                | W                | AA               | BB               | CC               | DD               | Wheel Diameter   | Diameter of Shaft in Bearing | Anchor Bolts |
|----------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------------------|--------------|
| 4        | 8 $\frac{1}{4}$  | 13 $\frac{1}{2}$ | 15               | 23 $\frac{1}{4}$ | 22 $\frac{1}{4}$ | 14 $\frac{1}{4}$ | 8 $\frac{1}{4}$  | 5 $\frac{1}{4}$  | 9 $\frac{1}{4}$  | 11               | 13 $\frac{1}{4}$ | 4                | 6                | 38 $\frac{1}{4}$ | 39               | 36 $\frac{1}{4}$ | 21 $\frac{1}{4}$ | 19 $\frac{1}{4}$ | 1                            | 2            |
| 5        | 9 $\frac{1}{4}$  | 15 $\frac{1}{2}$ | 18 $\frac{1}{4}$ | 26 $\frac{1}{4}$ | 26 $\frac{1}{4}$ | 17               | 10               | 8 $\frac{1}{4}$  | 10 $\frac{1}{4}$ | 16 $\frac{1}{4}$ | 19               | 4 $\frac{1}{4}$  | 7 $\frac{1}{4}$  | 44 $\frac{1}{4}$ | 41               | 43 $\frac{1}{4}$ | 29               | 22 $\frac{1}{4}$ | 1 $\frac{1}{4}$              | 2            |
| 6        | 11 $\frac{1}{4}$ | 18 $\frac{1}{2}$ | 20 $\frac{1}{4}$ | 29 $\frac{1}{4}$ | 29 $\frac{1}{4}$ | 19 $\frac{1}{4}$ | 11 $\frac{1}{4}$ | 9 $\frac{1}{4}$  | 12 $\frac{1}{4}$ | 19 $\frac{1}{4}$ | 21 $\frac{1}{4}$ | 5 $\frac{1}{4}$  | 7 $\frac{1}{4}$  | 50 $\frac{1}{4}$ | 51               | 49 $\frac{1}{4}$ | 32 $\frac{1}{4}$ | 26               | 1 $\frac{1}{4}$              | 2            |
| 7        | 13               | 21 $\frac{1}{2}$ | 24 $\frac{1}{4}$ | 33 $\frac{1}{4}$ | 34 $\frac{1}{4}$ | 22 $\frac{1}{4}$ | 12 $\frac{1}{4}$ | 10 $\frac{1}{4}$ | 15               | 23 $\frac{1}{4}$ | 23 $\frac{1}{4}$ | 6 $\frac{1}{4}$  | 9 $\frac{1}{4}$  | 58 $\frac{1}{4}$ | 60               | 57               | 35 $\frac{1}{4}$ | 30 $\frac{1}{4}$ | 1 $\frac{1}{4}$              | 2            |
| 8        | 15 $\frac{1}{4}$ | 24 $\frac{1}{2}$ | 27 $\frac{1}{4}$ | 37 $\frac{1}{4}$ | 39 $\frac{1}{4}$ | 26               | 14 $\frac{1}{4}$ | 11 $\frac{1}{4}$ | 17 $\frac{1}{4}$ | 25 $\frac{1}{4}$ | 26 $\frac{1}{4}$ | 8 $\frac{1}{4}$  | 10 $\frac{1}{4}$ | 65               | 64               | 65 $\frac{1}{4}$ | 41 $\frac{1}{4}$ | 36               | 1 $\frac{1}{4}$              | 2            |
| 9        | 17 $\frac{1}{4}$ | 28 $\frac{1}{2}$ | 32               | 41 $\frac{1}{4}$ | 47 $\frac{1}{4}$ | 30 $\frac{1}{4}$ | 16 $\frac{1}{4}$ | 14 $\frac{1}{4}$ | 20 $\frac{1}{4}$ | 32 $\frac{1}{4}$ | 29 $\frac{1}{4}$ | 10 $\frac{1}{4}$ | 12 $\frac{1}{4}$ | 73 $\frac{1}{4}$ | 79 $\frac{1}{4}$ | 77 $\frac{1}{4}$ | 46 $\frac{1}{4}$ | 40               | 1 $\frac{1}{4}$              | 2            |
| 10       | 19 $\frac{1}{4}$ | 32 $\frac{1}{2}$ | 37               | 60 $\frac{1}{4}$ | 53 $\frac{1}{4}$ | 35 $\frac{1}{4}$ | 22 $\frac{1}{4}$ | 21               | 24               | 36               | 39 $\frac{1}{4}$ | 15               | 16               | 97 $\frac{1}{4}$ | 93 $\frac{1}{4}$ | 88 $\frac{1}{4}$ | 62 $\frac{1}{4}$ | 48               | 2 $\frac{1}{4}$              | 1            |

## Double Inlet No. 0000 Steel Pressure Blower—Design 2 Single Width

**When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances**

| R.P.M. | Tip Speed<br>F.P.M. | S.N.D.<br>in<br>Inches | Volume<br>C.F.M. H. P.                                   |  | Volume<br>C.F.M. H. P.                                   |  | Volume<br>C.F.M. H. P.                                   |  | Volume<br>C.F.M. H. P.                                   |       | Volume<br>C.F.M. H. P. |       | Volume<br>C.F.M. H. P. |       | Volume<br>C.F.M. H. P. |      |
|--------|---------------------|------------------------|--|--|--|--|--|--|--|-------|------------------------|-------|------------------------|-------|------------------------|------|
|        |                     |                        | Static Pressure<br>1" Water<br>.578 oss. per<br>sq. inch | Static Pressure<br>2" Water<br>1.16 oss. per<br>sq. inch | Static Pressure<br>3" Water<br>1.73 oss. per<br>sq. inch | Static Pressure<br>4" Water<br>2.31 oss. per<br>sq. inch | Static Pressure<br>5" Water<br>2.89 oss. per<br>sq. inch | Static Pressure<br>6" Water<br>3.47 oss. per<br>sq. inch | Static Pressure<br>7" Water<br>4.05 oss. per<br>sq. inch |       |                        |       |                        |       |                        |      |
| 2710   | 5000                | 1 78                   | 86   | 0 018  |  |  |  |  |  |       |                        |       |                        |       |                        |      |
| 2840   | 5250                | 1 96                   | 94   | 0 057  | 42   | 0 030  |  |  |  |       |                        |       |                        |       |                        |      |
| 2980   | 5500                | 2 15                   | 102  | 0 069  | 62   | 0 044  |  |  |  |       |                        |       |                        |       |                        |      |
| 3110   | 5750                | 2 35                   | 109  | 0 080  | 75   | 0 059  |  |  |  |       |                        |       |                        |       |                        |      |
| 3250   | 6000                | 2 56                   | 116  | 0 093  | 85   | 0 068  |  |  |  |       |                        |       |                        |       |                        |      |
| 3380   | 6250                | 2 78                   | 123  | 0 110  | 95   | 0 083  |  |  |  |       |                        |       |                        |       |                        |      |
| 3520   | 6500                | 3 00                   | 130  | 0 125  | 104  | 0 098  | 60   | 0 063  |  |       |                        |       |                        |       |                        |      |
| 3650   | 6750                | 3 23                   | 137  | 0 140  | 112  | 0 115  | 75   | 0 080  |  |       |                        |       |                        |       |                        |      |
| 3790   | 7000                | 3 48                   | 144  | 0 160  |  |  | 90   | 0 100  |  |       |                        |       |                        |       |                        |      |
| 3920   | 7250                | 3 73                   | 151  | 0 175  |  |  | 100  | 0 120  |  |       |                        |       |                        |       |                        |      |
| 4060   | 7500                | 3 99                   | 157  | 0 195  |  |  | 110  | 0 135  | 60   | 0 097 |                        |       |                        |       |                        |      |
| 4200   | 7750                | 4 26                   | 164  | 0 220  |  |  | 120  | 0 160  | 86   | 0 120 |                        |       |                        |       |                        |      |
| 4330   | 8000                | 4 55                   | 171  | 0 245  |  |  | 128  | 0 185  | 99   | 0 145 |                        |       |                        |       |                        |      |
| 4460   | 8250                | 4 83                   | 177  | 0 270  |  |  | 137  | 0 210  | 112  | 0 170 | 56                     | 0 120 |                        |       |                        |      |
| 4600   | 8500                | 5 13                   | 184  | 0 295  |  |  |  |  | 121  | 0 195 | 84                     | 0 150 |                        |       |                        |      |
| 4740   | 8750                | 5 44                   | 190  | 0 325  |  |  |  |  | 130  | 0 225 | 101                    | 0 180 |                        |       |                        |      |
| 4870   | 9000                | 5 75                   | 197  | 0 355  |  |  |  |  | 140  | 0 255 | 114                    | 0 210 |                        |       |                        |      |
| 5000   | 9250                | 6 07                   | 204  | 0 385  |  |  |  |  | 149  | 0 285 | 125                    | 0 240 | 90                     | 0 190 |                        |      |
| 5140   | 9500                | 6 40                   | 210  | 0 425  |  |  |  |  | 157  | 0 315 | 136                    | 0 265 | 106                    | 0 225 |                        |      |
| 5280   | 9750                | 6 75                   | 216  | 0 46   |  |  |  |  |  |       | 145                    | 0 305 | 120                    | 0 260 | 65                     | 0 18 |
| 5410   | 10000               | 7 10                   | 222  | 0 49   |  |  |  |  |  |       | 154                    | 0 345 | 131                    | 0 295 | 98                     | 0 21 |
| 5550   | 10250               | 7 47                   | 230  | 0 54   |  |  |  |  |  |       | 163                    | 0 385 | 141                    | 0 330 | 114                    | 0 28 |
| 5690   | 10500               | 7 83                   | 236  | 0 58   |  |  |  |  |  |       | 171                    | 0 425 | 152                    | 0 375 | 127                    | 0 33 |
| 5820   | 10750               | 8 21                   | 242  | 0 62   |  |  |  |  |  |       | 180                    | 0 455 | 162                    | 0 42  | 139                    | 0 37 |
| 5950   | 11000               | 8 59                   | 248  | 0 68   |  |  |  |  |  |       |                        |       | 171                    | 0 46  | 150                    | 0 41 |



# Double Inlet No. 0 Steel Pressure Blower—Design 2 Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M. H. P. Static Pressure 1" Water .878 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 2" Water 1.16 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 3" Water 1.73 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 4" Water 2.31 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 5" Water 2.89 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 6" Water 3.47 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 7" Water 4.05 ozs. per sq. inch |
|--------|------------------|------------------|---|---|---|---|---|---|---|
| 1775   | 5000             | 1 78             | 181 0 100   |   |   |   |   |   |   |
| 1860   | 5250             | 1 96             | 197 0 120   | 88 0 064  |   |   |   |   |   |
| 1950   | 5500             | 2 15             | 214 0 145   | 131 0 063   |   |   |   |   |   |
| 2040   | 5750             | 2 35             | 228 0 170   | 157 0 125   |   |   |   |   |   |
| 2130   | 6000             | 2 56             | 243 0 195   | 178 0 145   |   |   |   |   |   |
| 2220   | 6250             | 2 78             | 258 0 225   | 199 0 175   |   |   |   |   |   |
| 2300   | 6500             | 3 00             | 273 0 260   | 218 0 205   | 126 0 135   |   |   |   |   |
| 2400   | 6750             | 3 23             | 288 0 290   | 236 0 24  | 159 0 165   |   |   |   |   |
| 2485   | 7000             | 3 48             | 303 0 335   |   | 189 0 21  |   |   |   |   |
| 2575   | 7250             | 3 73             | 317 0 370   |   | 211 0 25  |   |   |   |   |
| 2660   | 7500             | 3 99             | 330 0 415   |   | 233 0 28  | 144 0 205   |   |   |   |
| 2750   | 7750             | 4 26             | 346 0 46  |   | 252 0 34  | 181 0 255   |   |   |   |
| 2840   | 8000             | 4 55             | 359 0 52  |   | 271 0 39  | 209 0 305   |   |   |   |
| 2930   | 8250             | 4 83             | 374 0 57  |   | 288 0 44  | 235 0 360   | 118 0 250   |   |   |
| 3020   | 8500             | 5 13             | 388 0 63  |   |   | 255 0 415   | 176 0 315   |   |   |
| 3110   | 8750             | 5 44             | 400 0 68  |   |   | 274 0 47  | 213 0 38  |   |   |
| 3190   | 9000             | 5 75             | 415 0 75  |   |   | 295 0 53  | 239 0 44  |   |   |
| 3280   | 9250             | 6 07             | 430 0 81  |   |   | 313 0 60  | 264 0 51  | 189 0 395   |   |
| 3370   | 9500             | 6 40             | 442 0 89  |   |   | 330 0 66  | 287 0 56  | 223 0 47  |   |
| 3460   | 9750             | 6 75             | 453 0 97  |   |   |   | 306 0 61  | 252 0 55  | 136 0 375   |
| 3550   | 10000            | 7 10             | 467 1 05  |   |   |   | 324 0 72  | 276 0 63  | 207 0 51  |
| 3640   | 10250            | 7 47             | 482 1 15  |   |   |   | 344 0 80  | 296 0 70  | 240 0 60  |
| 3730   | 10500            | 7 83             | 496 1 20  |   |   |   | 360 0 89  | 320 0 79  | 266 0 70  |
| 3820   | 10750            | 8 21             | 508 1 30  |   |   |   | 378 0 96  | 340 0 88  | 293 0 78  |
| 3910   | 11000            | 8 59             | 521 1 45  |   |   |   |   | 350 0 97  | 316 0 86  |
| 4000   | 11250            | 8 99             | 535 1 50  |   |   |   |   | 377 1 05  | 337 0 95  |
| 4080   | 11500            | 9 39             | 547 1 60  |   |   |   |   | 395 1 15  | 359 1 05  |
| 4175   | 11750            | 9 81             | 562 1 75  |   |   |   |   | 412 1 25  | 378 1 15  |
| 4270   | 12000            | 10 2             | 576 1 85  |   |   |   |   |   | 395 1 30  |
| 4350   | 12250            | 10 7             | 589 1 95  |   |   |   |   |   | 415 1 40  |
| 4440   | 12500            | 11 1             | 602 2 10  |   |   |   |   |   | 430 1 50  |
| 4530   | 12750            | 11 6             | 615 2 25  |   |   |   |   |   | 448 1 65  |
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 8" Water 4.63 ozs. per sq. inch                     | Static Pressure 9" Water 5.2 ozs. per sq. inch                      | Static Pressure 10" Water 5.78 ozs. per sq. inch                    | Static Pressure 11" Water 6.36 ozs. per sq. inch                    | Static Pressure 12" Water 6.93 ozs. per sq. inch                    | Static Pressure 13" Water 7.51 ozs. per sq. inch                    | Static Pressure 14" Water 8.08 ozs. per sq. inch                    |
| 3730   | 10500            | 7 83             | 181 0 53  |   |   |   |   |   |   |
| 3820   | 10750            | 8 21             | 228 0 64  |   |   |   |   |   |   |
| 3910   | 11000            | 8 59             | 261 0 71  |   |   |   |   |   |   |
| 3990   | 11250            | 8 99             | 280 0 84  | 226 0 71  |   |   |   |   |   |
| 4080   | 11500            | 9 38             | 314 0 94  | 256 0 80  |   |   |   |   |   |
| 4170   | 11750            | 9 81             | 338 1 05  | 287 0 92  | 203 0 73  |   |   |   |   |
| 4270   | 12000            | 10 2             | 358 1 15  | 315 1 05  | 253 0 88  |   |   |   |   |
| 4350   | 12250            | 10 7             | 379 1 25  | 340 1 15  | 286 1 00  | 185 0 85  |   |   |   |
| 4430   | 12500            | 11 1             | 400 1 40  | 362 1 30  | 315 1 15  | 251 0 97  |   |   |   |
| 4530   | 12750            | 11 6             | 418 1 55  | 382 1 40  | 341 1 25  | 290 1 10  | 146 0 78  |   |   |
| 4620   | 13000            | 12 0             | 437 1 65  | 402 1 50  | 364 1 40  | 318 1 25  | 252 1 10  |   |   |
| 4710   | 13250            | 12 5             | 455 1 80  | 423 1 65  | 387 1 55  | 343 1 40  | 292 1 25  |   |   |
| 4790   | 13500            | 12 9             | 472 1 95  | 441 1 80  | 408 1 65  | 368 1 50  | 323 1 35  | 257 1 20  |   |
| 4880   | 13750            | 13 4             |   | 461 1 95  | 428 1 80  | 398 1 65  | 351 1 55  | 297 1 35  |   |
| 4970   | 14000            | 13 9             |   | 480 2 1   | 447 1 95  | 411 1 8   | 377 1 65  | 329 1 5   | 265 1 35  |

# **Double Inlet      No. 1 Steel Pressure Blower—Design 2      Single Width** **When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances**

| R.P.M. | Tip<br>Speed<br>F.P.M. | S.N.D.<br>in<br>inches | S.N.D.<br>H.P. | Volume<br>C.F.M.   | H. P.  | Volume<br>C.F.M.   | H. P.  | Volume<br>C.F.M.   | H. P.  | Volume<br>C.F.M.   | H. P. | Volume<br>C.F.M. | H. P. | Volume<br>C.F.M. | H. P. | Volume<br>C.F.M. | H. P. |
|--------|------------------------|------------------------|----------------|--|--|--|--|--|--|--|-------|------------------|-------|------------------|-------|------------------|-------|
|        |                        |                        |                | Static Pressure<br>1" Water<br>.578 ozs. per<br>sq. inch | Static Pressure<br>2" Water<br>1.16 ozs. per<br>sq. inch | Static Pressure<br>3" Water<br>1.73 ozs. per<br>sq. inch | Static Pressure<br>4" Water<br>2.31 ozs. per<br>sq. inch | Static Pressure<br>5" Water<br>2.89 ozs. per<br>sq. inch | Static Pressure<br>6" Water<br>3.47 ozs. per<br>sq. inch | Static Pressure<br>7" Water<br>4.05 ozs. per<br>sq. inch |       |                  |       |                  |       |                  |       |
| 1558   | 5000                   | 1 78                   | 0 045          | 278  | 0.155  |  |  |  |  |  |       |                  |       |                  |       |                  |       |
| 1635   | 5250                   | 1 96                   | 0 052          | 303  | 0 185  | 136  | 0 099  |  |  |  |       |                  |       |                  |       |                  |       |
| 1713   | 5500                   | 2 15                   | 0 059          | 329  | 0 22   | 202  | 0 145  |  |  |  |       |                  |       |                  |       |                  |       |
| 1790   | 5750                   | 2 35                   | 0 068          | 351  | 0 26   | 242  | 0 190  |  |  |  |       |                  |       |                  |       |                  |       |
| 1870   | 6000                   | 2 56                   | 0 077          | 375  | 0 30   | 274  | 0 220  |  |  |  |       |                  |       |                  |       |                  |       |
| 1947   | 6250                   | 2 78                   | 0 087          | 398  | 0 35   | 306  | 0 270  |  |  |  |       |                  |       |                  |       |                  |       |
| 2025   | 6500                   | 3 00                   | 0 098          | 420  | 0 40   | 336  | 0 315  | 194  | 0 205  |  |       |                  |       |                  |       |                  |       |
| 2100   | 6750                   | 3 23                   | 0 110          | 443  | 0 45   | 364  | 0 37   | 244  | 0 255  |  |       |                  |       |                  |       |                  |       |
| 2180   | 7000                   | 3 48                   | 0 125          | 467  | 0 52   |  |  | 201  | 0 325  |  |       |                  |       |                  |       |                  |       |
| 2260   | 7250                   | 3 73                   | 0 135          | 487  | 0 57   |  |  | 325  | 0 38   |  |       |                  |       |                  |       |                  |       |
| 2340   | 7500                   | 3 99                   | 0 150          | 508  | 0 64   |  |  | 358  | 0 43   | 222  | 0 315 |                  |       |                  |       |                  |       |
| 2415   | 7750                   | 4 26                   | 0 165          | 531  | 0 71   |  |  | 389  | 0 52   | 278  | 0 39  |                  |       |                  |       |                  |       |
| 2490   | 8000                   | 4 55                   | 0 185          | 553  | 0 79   |  |  | 417  | 0 60   | 322  | 0 47  |                  |       |                  |       |                  |       |
| 2570   | 8250                   | 4 83                   | 0 200          | 574  | 0 88   |  |  | 444  | 0 67   | 361  | 0 56  | 182              | 0 385 |                  |       |                  |       |
| 2650   | 8500                   | 5 13                   | 0 220          | 597  | 0 96   |  |  |  |  | 392  | 0 64  | 271              | 0 485 |                  |       |                  |       |
| 2720   | 8750                   | 5 44                   | 0 240          | 615  | 1 05   |  |  |  |  | 422  | 0 73  | 327              | 0 58  |                  |       |                  |       |
| 2800   | 9000                   | 5 75                   | 0 260          | 638  | 1 15   |  |  |  |  | 454  | 0 82  | 368              | 0 68  |                  |       |                  |       |
| 2880   | 9250                   | 6 07                   | 0 285          | 661  | 1 25   |  |  |  |  | 481  | 0 92  | 406              | 0 78  | 291              | 0 61  |                  |       |
| 2960   | 9500                   | 6 40                   | 0 305          | 680  | 1 35   |  |  |  |  | 507  | 1     | 442              | 0 86  | 342              | 0 72  |                  |       |
| 3040   | 9750                   | 6 75                   | 0 330          | 697  | 1 50   |  |  |  |  |  |       | 470              | 0 98  | 388              | 0 85  | 209              | 0 58  |
| 3115   | 10000                  | 7 10                   | 0 360          | 718  | 1 60   |  |  |  |  |  |       | 498              | 1 10  | 425              | 0 96  | 318              | 0 78  |
| 3195   | 10250                  | 7 47                   | 0 385          | 742  | 1 75   |  |  |  |  |  |       | 528              | 1 25  | 455              | 1 05  | 369              | 0 91  |
| 3270   | 10500                  | 7 83                   | 0 415          | 764  | 1 90   |  |  |  |  |  |       | 555              | 1 35  | 492              | 1 20  | 410              | 1 05  |
| 3350   | 10750                  | 8 21                   | 0 445          | 781  | 2 00   |  |  |  |  |  |       | 582              | 1 5   | 524              | 1 35  | 451              | 1 20  |
| 3430   | 11000                  | 8 59                   | 0 48           | 802  | 2 20   |  |  |  |  |  |       |                  |       | 552              | 1 50  | 486              | 1 35  |
| 3500   | 11250                  | 8 99                   | 0 51           | 823  | 2 30   |  |  |  |  |  |       |                  |       | 580              | 1 65  | 519              | 1 45  |
| 3580   | 11500                  | 9 39                   | 0 55           | 842  | 2 50   |  |  |  |  |  |       |                  |       | 608              | 1 80  | 552              | 1 65  |
| 3660   | 11750                  | 9 81                   | 0 58           | 865  | 2 70   |  |  |  |  |  |       |                  |       | 634              | 1 95  | 581              | 1 80  |
| 3740   | 12000                  | 10 2                   | 0 62           | 887  | 2 85   |  |  |  |  |  |       |                  |       |                  |       | 607              | 1 95  |
| 3820   | 12250                  | 10 7                   | 0 66           | 906  | 3 05   |  |  |  |  |  |       |                  |       |                  |       | 638              | 2 15  |
| 3900   | 12500                  | 11 1                   | 0 70           | 925  | 3 25   |  |  |  |  |  |       |                  |       |                  |       | 660              | 2 3   |
| 3970   | 12750                  | 11 6                   | 0 75           | 946  | 3 45   |  |  |  |  |  |       |                  |       |                  |       | 688              | 2 5   |

| R.P.M. | Tip<br>Speed<br>F.P.M. | S.N.D.<br>in<br>inches | S.N.D.<br>H.P. | Static Pressure<br>8" Water<br>4.63 ozs. per<br>sq. inch | Static Pressure<br>9" Water<br>5.2 ozs. per<br>sq. inch | Static Pressure<br>10" Water<br>5.78 ozs. per<br>sq. inch | Static Pressure<br>11" Water<br>6.36 ozs. per<br>sq. inch | Static Pressure<br>12" Water<br>6.93 ozs. per<br>sq. inch | Static Pressure<br>13" Water<br>7.51 ozs. per<br>sq. inch | Static Pressure<br>14" Water<br>8.08 ozs. per<br>sq. inch |      |
|--------|------------------------|------------------------|----------------|--|---|---|---|---|---|---|------|
| 3270   | 10500                  | 7 83                   | 0 415          | 278  | 0 81  |   |   |   |   |   |      |
| 3350   | 10750                  | 8 21                   | 0 445          | 351  | 0 98  |   |   |   |   |   |      |
| 3430   | 11000                  | 8 59                   | 0 480          | 401  | 1 15  |   |   |   |   |   |      |
| 3510   | 11250                  | 8 99                   | 0 51           | 445  | 1 30  | 346   | 1 10  |   |   |   |      |
| 3580   | 11500                  | 9 38                   | 0 55           | 482  | 1 45  | 393   | 1 25  |   |   |   |      |
| 3660   | 11750                  | 9 81                   | 0 58           | 519  | 1 60  | 442   | 1 40  | 312   | 1 15  |   |      |
| 3740   | 12000                  | 10 2                   | 0 62           | 550  | 1 75  | 484   | 1 60  | 389   | 1 35  |   |      |
| 3820   | 12250                  | 10 7                   | 0 66           | 582  | 1 95  | 522   | 1 80  | 440   | 1 55  | 284   | 1 30 |
| 3900   | 12500                  | 11 1                   | 0 70           | 615  | 2 15  | 555   | 1 95  | 484   | 1 75  | 386   | 1 50 |
| 3970   | 12750                  | 11 6                   | 0 75           | 644  | 2 35  | 586   | 2 15  | 524   | 1 95  | 445   | 1 70 |
| 4050   | 13000                  | 12 0                   | 0 79           | 671  | 2 55  | 617   | 2 35  | 560   | 2 15  | 488   | 1 90 |
| 4130   | 13250                  | 12 5                   | 0 84           | 700  | 2 75  | 650   | 2 55  | 594   | 2 35  | 528   | 2 10 |
| 4200   | 13500                  | 12 9                   | 0 88           | 726  | 2 95  | 677   | 2 75  | 626   | 2 55  | 567   | 2 35 |
| 4290   | 13750                  | 13 4                   | 0 93           |  |   | 707   | 3 00  | 659   | 2 75  | 605   | 2 55 |
| 4360   | 14000                  | 13 9                   | 0 98           |  |   | 737   | 3 25  | 686   | 3 0   | 633   | 2 75 |
| 4440   | 14250                  | 14 4                   | 1 05           |  |   | 763   | 3 45  | 720   | 3 3   | 668   | 3 05 |
| 4520   | 14500                  | 14 9                   | 1 1            |  |   |   |   | 745   | 3 5   | 699   | 3 3  |



Double Inlet

**No. 2 Steel Pressure Blower—Design 2**

Single Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip<br>S.F.M. | S.N.D.<br>in<br>Inches | S.N.D.<br>H.P. | Volume<br>C.F.M.  | H. P. | Volume<br>C.F.M.  | H. P. | Volume<br>C.F.M.  | H. P. | Volume<br>C.F.M.  | H. P. | Volume<br>C.F.M.  | H. P. | Volume<br>C.F.M.  | H. P. | Volume<br>C.F.M.  | H. P. |
|--------|---------------|------------------------|----------------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|
|        |               |                        |                | Static Pressure<br>1" Water<br>.578 ozs. per<br>sq. inch  |       | Static Pressure<br>2" Water<br>1.16 ozs. per<br>sq. inch  |       | Static Pressure<br>3" Water<br>1.73 ozs. per<br>sq. inch  |       | Static Pressure<br>4" Water<br>2.31 ozs. per<br>sq. inch  |       | Static Pressure<br>5" Water<br>2.89 ozs. per<br>sq. inch  |       | Static Pressure<br>6" Water<br>3.47 ozs. per<br>sq. inch  |       | Static Pressure<br>7" Water<br>4.05 ozs. per<br>sq. inch  |       |
| 1310   | 5000          | 1 81                   | 0.055          | 361   | 0.170 |   |       |   |       |   |       |   |       |   |       |   |       |
| 1375   | 5250          | 2 00                   | 0.064          | 394   | 0.205 | 218   | 0.130 |   |       |   |       |   |       |   |       |   |       |
| 1440   | 5500          | 2 20                   | 0.073          | 428   | 0.245 | 285   | 0.180 |   |       |   |       |   |       |   |       |   |       |
| 1505   | 5750          | 2 40                   | 0.084          | 457   | 0.280 | 329   | 0.225 |   |       |   |       |   |       |   |       |   |       |
| 1570   | 6000          | 2 61                   | 0.095          | 489   | 0.330 | 368   | 0.265 |   |       |   |       |   |       |   |       |   |       |
| 1635   | 6250          | 2 84                   | 0.110          | 519   | 0.380 | 402   | 0.31  |   |       |   |       |   |       |   |       |   |       |
| 1705   | 6500          | 3 06                   | 0.120          | 550   | 0.435 |   |       | 289   | 0.265 |   |       |   |       |   |       |   |       |
| 1765   | 6750          | 3 31                   | 0.135          | 579   | 0.51  |   |       | 351   | 0.310 |   |       |   |       |   |       |   |       |
| 1835   | 7000          | 3 56                   | 0.150          | 611   | 0.57  |   |       | 395   | 0.405 |   |       |   |       |   |       |   |       |
| 1900   | 7250          | 3 81                   | 0.170          | 638   | 0.64  |   |       | 435   | 0.465 | 183   | 0.250 |   |       |   |       |   |       |
| 1965   | 7500          | 4 08                   | 0.185          | 670   | 0.71  |   |       | 471   | 0.53  | 334   | 0.370 |   |       |   |       |   |       |
| 2030   | 7750          | 4 35                   | 0.205          | 696   | 0.78  |   |       | 507   | 0.6   | 394   | 0.475 |   |       |   |       |   |       |
| 2095   | 8000          | 4 64                   | 0.225          | 725   | 0.88  |   |       |   |       | 441   | 0.58  |   |       |   |       |   |       |
| 2160   | 8250          | 4 94                   | 0.250          | 753   | 0.96  |   |       |   |       | 484   | 0.68  | 326   | 0.49  |   |       |   |       |
| 2230   | 8500          | 5 23                   | 0.270          | 780   | 1.05  |   |       |   |       | 521   | 0.76  | 401   | 0.62  |   |       |   |       |
| 2290   | 8750          | 5 55                   | 0.295          | 808   | 1.20  |   |       |   |       | 555   | 0.84  | 459   | 0.74  |   |       |   |       |
| 2360   | 9000          | 5 88                   | 0.320          | 836   | 1.30  |   |       |   |       |   |       | 504   | 0.85  | 341   | 0.62  |   |       |
| 2425   | 9250          | 6 21                   | 0.350          | 864   | 1.40  |   |       |   |       |   |       | 547   | 0.96  | 428   | 0.78  |   |       |
| 2490   | 9500          | 6 55                   | 0.380          | 894   | 1.50  |   |       |   |       |   |       | 582   | 1.05  | 486   | 0.93  |   |       |
| 2550   | 9750          | 6 89                   | 0.410          | 920   | 1.65  |   |       |   |       |   |       | 615   | 1.15  | 533   | 1.05  | 381   | 0.80  |
| 2620   | 10000         | 7 25                   | 0.440          | 949   | 1.80  |   |       |   |       |   |       | 653   | 1.3   | 578   | 1.20  | 464   | 1.00  |
| 2690   | 10250         | 7 61                   | 0.475          | 975   | 1.95  |   |       |   |       |   |       |   |       | 617   | 1.35  | 522   | 1.15  |
| 2750   | 10500         | 7 99                   | 0.51           | 1000  | 2.10  |   |       |   |       |   |       |   |       | 650   | 1.45  | 573   | 1.35  |
| 2820   | 10750         | 8 37                   | 0.55           | 1030  | 2.25  |   |       |   |       |   |       |   |       | 685   | 1.55  | 615   | 1.50  |
| 2890   | 11000         | 8 77                   | 0.59           | 1060  | 2.45  |   |       |   |       |   |       |   |       | 718   | 1.7   | 655   | 1.65  |
| 2950   | 11250         | 9 18                   | 0.63           | 1080  | 2.65  |   |       |   |       |   |       |   |       |   |       | 691   | 1.80  |
| 3020   | 11500         | 9 6                    | 0.67           | 1110  | 2.90  |   |       |   |       |   |       |   |       |   |       | 726   | 2.00  |
| 3080   | 11750         | 10                     | 0.71           | 1140  | 3.15  |   |       |   |       |   |       |   |       |   |       | 762   | 2.15  |
| R.P.M. | Tip<br>S.F.M. | S.N.D.<br>in<br>Inches | S.N.D.<br>H.P. | Static Pressure<br>8" Water<br>4.62 ozs. per<br>sq. inch  |       | Static Pressure<br>9" Water<br>5.2 ozs. per<br>sq. inch   |       | Static Pressure<br>10" Water<br>5.73 ozs. per<br>sq. inch |       | Static Pressure<br>11" Water<br>6.37 ozs. per<br>sq. inch |       | Static Pressure<br>12" Water<br>6.95 ozs. per<br>sq. inch |       | Static Pressure<br>13" Water<br>7.52 ozs. per<br>sq. inch |       | Static Pressure<br>14" Water<br>8.1 ozs. per<br>sq. inch  |       |
| 2690   | 10250         | 7.61                   | 0.475          | 258   | 0.71  |   |       |   |       |   |       |   |       |   |       |   |       |
| 2750   | 10500         | 7.99                   | 0.51           | 437   | 1.05  |   |       |   |       |   |       |   |       |   |       |   |       |
| 2820   | 10750         | 8.37                   | 0.55           | 508   | 1.25  |   |       |   |       |   |       |   |       |   |       |   |       |
| 2890   | 11000         | 8.77                   | 0.59           | 568   | 1.45  | 405   | 1.10  |   |       |   |       |   |       |   |       |   |       |
| 2950   | 11250         | 9.18                   | 0.63           | 617   | 1.65  | 497   | 1.35  |   |       |   |       |   |       |   |       |   |       |
| 3020   | 11500         | 9.60                   | 0.67           | 659   | 1.85  | 566   | 1.60  | 375   | 1.15  |   |       |   |       |   |       |   |       |
| 3080   | 11750         | 10.0                   | 0.71           | 700   | 2.05  | 622   | 1.85  | 495   | 1.50  |   |       |   |       |   |       |   |       |
| 3150   | 12000         | 10.4                   | 0.76           | 735   | 2.20  | 667   | 2.00  | 567   | 1.75  |   |       |   |       |   |       |   |       |
| 3220   | 12250         | 10.9                   | 0.81           | 769   | 2.35  | 707   | 2.20  | 623   | 2.00  | 485   | 1.60  |   |       |   |       |   |       |
| 3280   | 12500         | 11.3                   | 0.86           | 801   | 2.5   | 746   | 2.40  | 671   | 2.20  | 568   | 1.90  |   |       |   |       |   |       |
| 3350   | 12750         | 11.8                   | 0.91           |   |       | 780   | 2.55  | 717   | 2.40  | 633   | 2.20  | 488   | 1.75  |   |       |   |       |
| 3410   | 13000         | 12.3                   | 0.97           |   |       | 818   | 2.75  | 762   | 2.65  | 691   | 2.45  | 579   | 2.10  |   |       |   |       |
| 3480   | 13250         | 12.7                   | 1.05           |   |       | 850   | 2.95  | 798   | 2.85  | 734   | 2.70  | 643   | 2.46  | 500   | 1.95  |   |       |
| 3540   | 13500         | 13.2                   | 1.10           |   |       |   |       | 831   | 3.05  | 772   | 2.90  | 703   | 2.70  | 591   | 2.35  |   |       |
| 3610   | 13750         | 13.7                   | 1.15           |   |       |   |       | 865   | 3.25  | 813   | 3.15  | 751   | 3.00  | 658   | 2.65  | 520   | 2.20  |
| 3670   | 14000         | 14.2                   | 1.20           |   |       |   |       | 903   | 3.5   | 853   | 3.40  | 792   | 3.25  | 718   | 3.00  | 610   | 2.60  |
| 3740   | 14250         | 14.7                   | 1.30           |   |       |   |       |   |       | 886   | 3.60  | 836   | 3.50  | 773   | 3.30  | 678   | 2.95  |
| 3800   | 14500         | 15.3                   | 1.35           |   |       |   |       |   |       | 917   | 3.85  | 871   | 3.75  | 810   | 3.55  | 738   | 3.25  |
| 3870   | 14750         | 15.8                   | 1.4            |   |       |   |       |   |       | 957   | 4.1   | 906   | 3.95  | 853   | 3.80  | 791   | 3.50  |
| 3940   | 15000         | 16.3                   | 1.5            |   |       |   |       |   |       |   |       | 938   | 4.2   | 896   | 4.15  | 836   | 3.95  |
| R.P.M. | Tip<br>S.F.M. | S.N.D.<br>in<br>Inches | S.N.D.<br>H.P. | Static Pressure<br>15" Water<br>5.67 ozs. per<br>sq. inch |       | Static Pressure<br>16" Water<br>6.25 ozs. per<br>sq. inch |       | Static Pressure<br>17" Water<br>6.82 ozs. per<br>sq. inch |       | Static Pressure<br>18" Water<br>7.40 ozs. per<br>sq. inch |       | Static Pressure<br>19" Water<br>7.98 ozs. per<br>sq. inch |       | Static Pressure<br>20" Water<br>8.56 ozs. per<br>sq. inch |       | Static Pressure<br>21" Water<br>9.14 ozs. per<br>sq. inch |       |
| 3740   | 14250         | 14.7                   | 1.30           | 553   | 2.5   |   |       |   |       |   |       |   |       |   |       |   |       |
| 3800   | 14500         | 15.3                   | 1.35           | 640   | 2.9   | 366   | 2.0   |   |       |   |       |   |       |   |       |   |       |
| 3870   | 14750         | 15.8                   | 1.4            | 705   | 3.3   | 576   | 2.8   |   |       |   |       |   |       |   |       |   |       |
| 3940   | 15000         | 16.3                   | 1.5            | 761   | 3.6   | 664   | 3.2   | 490   | 2.6   |   |       |   |       |   |       |   |       |





### Single Width

**When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances**

[illegible]

**Double Inlet No. 5 Steel Pressure Blower—Design 2 Single Width**  
**When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances**

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | S.N.D. H.P. | Volume C.F.M. H. P.                             | Volume C.F.M. H. P.                             | Volume C.F.M. H. P.                             | Volume C.F.M. H. P.                             | Volume C.F.M. H. P.                             | Volume C.F.M. H. P.                             | Volume C.F.M. H. P.                             | Volume C.F.M. H. P. | Volume C.F.M. H. P. |
|--------|------------------|------------------|-------------|---|---|---|---|---|---|---|---------------------|---------------------|
|        |                  |                  |             | Static Pressure 1" Water .578 ozs. per sq. inch | Static Pressure 2" Water 1.16 ozs. per sq. inch | Static Pressure 3" Water 1.73 ozs. per sq. inch | Static Pressure 4" Water 2.31 ozs. per sq. inch | Static Pressure 5" Water 2.89 ozs. per sq. inch | Static Pressure 6" Water 3.47 ozs. per sq. inch | Static Pressure 7" Water 4.05 ozs. per sq. inch |                     |                     |
| 840    | 5000             | 1 84             | 0 125       | 1,400   | 0 64  | 461   | 0 255   |   |   |   |                     |                     |
| 880    | 5250             | 2 03             | 0 145       | 1,520   | 0 81  | 780   | 0 405   |   |   |   |                     |                     |
| 925    | 5500             | 2 25             | 0 165       | 1,640   | 0 98  | 1,010   | 0 57  |   |   |   |                     |                     |
| 965    | 5750             | 2 43             | 0 185       | 1,750   | 1 15  | 1,190   | 0 70  |   |   |   |                     |                     |
| 1010   | 6000             | 2 65             | 0 215       | 1,860   | 1 35  | 1,360   | 0 87  |   |   |   |                     |                     |
| 1050   | 6250             | 2 88             | 0 245       | 1,930   | 1 60  | 1,530   | 1 1   |   |   |   |                     |                     |
| 1090   | 6500             | 3 11             | 0 275       | 2,070   | 1 80  |   |   | 761   | 0 59  |   |                     |                     |
| 1135   | 6750             | 3 35             | 0 310       | 2,190   | 2 05  |   |   | 1,010   | 0 80  |   |                     |                     |
| 1175   | 7000             | 3 61             | 0 345       | 2,270   | 2 30  |   |   | 1,240   | 1 00  |   |                     |                     |
| 1220   | 7250             | 3 87             | 0 380       | 2,370   | 2 55  |   |   | 1,420   | 1 25  |   |                     |                     |
| 1260   | 7500             | 4 14             | 0 425       | 2,470   | 2 9   |   |   | 1,620   | 1 50  |   |                     |                     |
| 1300   | 7750             | 4 42             | 0 465       | 2,560   | 3 2   |   |   | 1,770   | 1 75  |   |                     |                     |
| 1340   | 8000             | 4 71             | 0 52        | 2,650   | 3 5   |   |   | 1,930   | 2 05  |   |                     |                     |
| 1385   | 8250             | 5 00             | 0 56        | 2,750   | 3 9   |   |   |   |   | 915   | 0 94                |                     |
| 1425   | 8500             | 5 31             | 0 62        | 2,840   | 4 3   |   |   | 1,580   | 1 75  |   |                     |                     |
| 1470   | 8750             | 5 63             | 0 67        | 2,940   | 4 7   |   |   | 1,760   | 2 05  |   |                     |                     |
| 1510   | 9000             | 5 94             | 0 73        | 3,040   | 5 1   |   |   | 1,930   | 2 40  |   |                     |                     |
| 1550   | 9250             | 6 28             | 0 79        | 3,130   | 5 5   |   |   | 2,120   | 2 85  |   |                     |                     |
| 1595   | 9500             | 6 63             | 0 86        | 3,220   | 6 1   |   |   | 2,250   | 3 2   |   |                     |                     |
| 1640   | 9750             | 6 97             | 0 93        | 3,310   | 6 7   |   |   | 1,580   | 1 75  |   |                     |                     |
| 1680   | 10000            | 7 35             | 1 00        | 3,400   | 7 3   |   |   | 1,760   | 2 05  |   |                     |                     |
| 1720   | 10250            | 7 72             | 1 10        | 3,500   | 7 8   |   |   | 1,930   | 2 40  |   |                     |                     |
| 1760   | 10500            | 8 11             | 1 15        | 3,580   | 8 5   |   |   | 2,120   | 2 85  |   |                     |                     |
| 1810   | 10750            | 8 49             | 1 25        | 3,680   | 9 2   |   |   | 2,250   | 3 2   |   |                     |                     |
| 1850   | 11000            | 8 90             | 1 35        | 3,760   | 10 0  |   |   | 1,580   | 1 75  |   |                     |                     |
| 1890   | 11250            | 9 30             | 1 45        | 3,860   | 10 5  |   |   | 1,760   | 2 05  |   |                     |                     |
| 1930   | 11500            | 9 72             | 1 50        | 3,940   | 11 5  |   |   | 1,930   | 2 40  |   |                     |                     |
| 1975   | 11750            | 10 2             | 1 65        | 4,060   | 12 5  |   |   | 2,120   | 2 85  |   |                     |                     |
|        |                  |                  |             |   |   |   |   | 2,250   | 3 2   |   |                     |                     |
|        |                  |                  |             |   |   |   |   | 1,580   | 1 75  |   |                     |                     |
|        |                  |                  |             |   |   |   |   | 1,760   | 2 05  |   |                     |                     |
|        |                  |                  |             |   |   |   |   | 1,930   | 2 40  |   |                     |                     |
|        |                  |                  |             |   |   |   |   | 2,120   | 2 85  |   |                     |                     |
|        |                  |                  |             |   |   |   |   | 2,250   | 3 2   |   |                     |                     |
|        |                  |                  |             |   |   |   |   | 1,580   | 1 75  |   |                     |                     |
|        |                  |                  |             |   |   |   |   | 1,760   | 2 05  |   |                     |                     |
|        |                  |                  |             |   |   |   |   | 1,930   | 2 40  |   |                     |                     |
|        |                  |                  |             |   |   |   |   | 2,120   | 2 85  |   |                     |                     |
|        |                  |                  |             |   |   |   |   | 2,250   | 3 2   |   |                     |                     |
|        |                  |                  |             |   |   |   |   | 1,580   | 1 75  |   |                     |                     |
|        |                  |                  |             |   |   |   |   | 1,760   | 2 05  |   |                     |                     |
|        |                  |                  |             |   |   |   |   | 1,930   | 2 40  |   |                     |                     |
|        |                  |                  | </          |   |   |   |   |   |   |   |                     |                     |

## Double Inlet

**When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances**

### Single Width

[illegible]

**When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances**

686

## Single Width

**When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances**

[illegible]





### Single Width

**When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances**

| R.P.M. |                        | Tip Speed<br>F.P.M.    | S.N.D.<br>in<br>Inches | S.N.D.<br>H.P. | Volume<br>C.F.M.  | H. P. | Volume<br>C.F.M.  | H. P. | Volume<br>C.F.M.  | H. P. | Volume<br>C.F.M.  | H. P. | Volume<br>C.F.M.  | H. P. | Volume<br>C.F.M.  | H. P. | Volume<br>C.F.M.  | H. P. |
|--------|------------------------|------------------------|------------------------|----------------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|
|        |                        |                        |                        |                | Static Pressure<br>22" Water<br>12.7 oss. per<br>sq. inch |       | Static Pressure<br>23" Water<br>13.3 oss. per<br>sq. inch |       | Static Pressure<br>24" Water<br>13.9 oss. per<br>sq. inch |       | Static Pressure<br>25" Water<br>14.4 oss. per<br>sq. inch |       | Static Pressure<br>26" Water<br>15.0 oss. per<br>sq. inch |       | Static Pressure<br>27" Water<br>15.6 oss. per<br>sq. inch |       | Static Pressure<br>28" Water<br>16.2 oss. per<br>sq. inch |       |
| 2110   | 17000                  | 21.3                   | 9.2                    |                | 3,980   | 22.5  | 3,120   | 19.5  |   |       |   |       |   |       |   |       |   |       |
| 2170   | 17500                  | 22.5                   | 10.0                   |                | 5,000   | 28    | 4,260   | 25    |   |       |   |       |   |       |   |       |   |       |
| 2240   | 18000                  | 23.8                   | 11.0                   |                | 5,810   | 34    | 5,280   | 31    | 4,720   | 29    |   |       |   |       |   |       |   |       |
| 2300   | 18500                  | 25.2                   | 12.0                   |                | 6,540   | 40    | 6,040   | 38    | 5,530   | 35    | 3,900   | 25    |   |       |   |       |   |       |
| 2360   | 19000                  | 26.6                   | 13.0                   |                | 7,250   | 47    | 6,790   | 44    | 6,350   | 42    | 5,860   | 38    | 4,350   | 29    |   |       |   |       |
| 2420   | 19500                  | 28.0                   | 14.0                   |                | 7,900   | 54    | 7,480   | 52    | 7,060   | 49    | 6,640   | 45    | 5,350   | 35    | 4,740   | 33    | 4,100   | 30    |
| 2480   | 20000                  | 29.4                   | 15.0                   |                | 8,530   | 60    | 8,150   | 58    | 7,730   | 56    | 7,320   | 52    | 6,150   | 42    | 5,660   | 40    | 5,150   | 37    |
| 2550   | 20500                  | 30.9                   | 16.0                   |                | 9,170   | 68    | 8,760   | 66    | 8,340   | 64    | 7,960   | 60    | 7,020   | 50    | 6,430   | 47    | 6,000   | 45    |
| 2600   | 21000                  | 32.4                   | 17.0                   |                | 9,720   | 76    | 9,380   | 72    | 9,000   | 70    | 8,650   | 68    | 7,550   | 58    | 7,120   | 56    | 6,800   | 52    |
| 2670   | 21500                  | 34.0                   | 18.5                   |                |   |       | 9,960   | 80    | 9,660   | 78    | 9,300   | 76    | 8,230   | 66    | 7,900   | 62    | 7,500   | 60    |
| 2740   | 22000                  | 35.6                   | 20                     |                |   |       |   |       | 10,200  | 86    | 9,900   | 84    | 8,950   | 74    | 8,520   | 72    | 8,150   | 68    |
| 2800   | 22500                  | 37.2                   | 21                     |                |   |       |   |       |   |       | 10,500  | 92    | 9,610   | 82    | 9,130   | 80    | 8,800   | 78    |
|        |                        |                        |                        |                |   |       |   |       |   |       |   |       | 10,200  | 92    | 9,780   | 88    | 9,520   | 86    |
|        |                        |                        |                        |                |   |       |   |       |   |       |   |       |   |       |   |       |   |       |
|        |                        |                        |                        |                |   |       |   |       |   |       |   |       |   |       |   |       |   |       |
|        |                        |                        |                        |                |   |       |   |       |   |       |   |       |   |       |   |       |   |       |
|        |                        |                        |                        |                |   |       |   |       |   |       |   |       |   |       |   |       |   |       |
|        |                        |                        |                        |                |   |       |   |       |   |       |   |       |   |       |   |       |   |       |
| R.P.M. | Tip<br>Speed<br>F.P.M. | S.N.D.<br>in<br>Inches | S.N.D.<br>H.P.         |                | Static Pressure<br>29" Water<br>16.8 oss. per<br>sq. inch |       | Static Pressure<br>30" Water<br>17.3 oss. per<br>sq. inch |       | Static Pressure<br>31" Water<br>17.9 oss. per<br>sq. inch |       | Static Pressure<br>32" Water<br>18.5 oss. per<br>sq. inch |       | Static Pressure<br>33" Water<br>19.1 oss. per<br>sq. inch |       | Static Pressure<br>34" Water<br>19.7 oss. per<br>sq. inch |       | Static Pressure<br>35" Water<br>20.3 oss. per<br>sq. inch |       |
| 2360   | 19000                  | 26.6                   | 13.0                   |                | 2,850   | 24    |   |       |   |       |   |       |   |       |   |       |   |       |
| 2420   | 19500                  | 28.0                   | 14.0                   |                | 4,560   | 34    | 3,710   | 30    |   |       |   |       |   |       |   |       |   |       |
| 2480   | 20000                  | 29.4                   | 15.0                   |                | 5,460   | 41    | 4,900   | 38    | 4,280   | 34    | 3,270   | 29    |   |       |   |       |   |       |
| 2550   | 20500                  | 30.9                   | 16.0                   |                | 6,320   | 49    | 5,830   | 46    | 5,340   | 43    | 4,810   | 40    | 4,040   | 35    |   |       |   |       |
| 2600   | 21000                  | 32.4                   | 17.0                   |                | 7,100   | 58    | 6,630   | 54    | 6,210   | 50    | 5,720   | 48    | 5,170   | 44    | 4,600   | 41    | 3,720   | 36    |
| 2670   | 21500                  | 34.0                   | 18.5                   |                | 8,010   | 68    | 7,400   | 62    | 7,000   | 60    | 6,580   | 58    | 6,140   | 54    | 5,640   | 50    | 5,720   | 46    |
| 2740   | 22000                  | 35.6                   | 20                     |                | 8,550   | 74    | 8,170   | 72    | 7,760   | 68    | 7,380   | 66    | 6,950   | 62    | 6,510   | 58    | 6,080   |       |



Double  
Inlet

# No. 8 Steel Pressure Blower — Design 2 — Cont'd

Single  
Width

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip<br>Speed<br>F.P.M. | S.N.D.<br>in<br>inches | S.N.D.<br>H.P. | Volume<br>C.F.M.  | H. P. | Volume<br>C.F.M.  | H. P. | Volume<br>C.F.M.  | H. P. | Volume<br>C.F.M.  | H. P. | Volume<br>C.F.M.  | H. P. | Volume<br>C.F.M.  | H. P. | Volume<br>C.F.M.  | H. P. |
|--------|------------------------|------------------------|----------------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|
|        |                        |                        |                | Static Pressure<br>22" Water<br>12.7 ozs. per<br>sq. inch |       | Static Pressure<br>23" Water<br>13.3 ozs. per<br>sq. inch |       | Static Pressure<br>24" Water<br>13.9 ozs. per<br>sq. inch |       | Static Pressure<br>25" Water<br>14.4 ozs. per<br>sq. inch |       | Static Pressure<br>26" Water<br>15.0 ozs. per<br>sq. inch |       | Static Pressure<br>27" Water<br>15.6 ozs. per<br>sq. inch |       | Static Pressure<br>28" Water<br>16.2 ozs. per<br>sq. inch |       |
| 1800   | 17000                  | 21 3                   | 12 5           | 5,520   | 31    | 4,340   | 27    |   |       |   |       |   |       |   |       |   |       |
| 1860   | 17500                  | 22 5                   | 14 0           | 6,950   | 39    | 5,930   | 35    | 4,900   | 31    |   |       |   |       |   |       |   |       |
| 1910   | 18000                  | 23 8                   | 15 0           | 8,070   | 47    | 7,340   | 44    | 6,560   | 40    | 5,420   | 35    |   |       |   |       |   |       |
| 1960   | 18500                  | 25 2                   | 16 5           | 9,070   | 56    | 8,390   | 52    | 7,680   | 49    | 6,970   | 44    | 6,050   | 40    | 4,980   | 36    |   |       |
| 2020   | 19000                  | 26 6                   | 18 0           | 10,000  | 66    | 9,110   | 62    | 8,820   | 58    | 8,150   | 54    | 7,440   | 49    | 6,600   | 46    | 5,700   | 41    |
| 2070   | 19500                  | 28 0                   | 19 0           | 11,000  | 74    | 10,400  | 72    | 9,800   | 68    | 9,230   | 62    | 8,550   | 58    | 7,870   | 56    | 7,150   | 52    |
| 2120   | 20000                  | 29 4                   | 20 5           | 11,800  | 81    | 11,300  | 80    | 10,700  | 78    | 10,200  | 74    | 9,700   | 70    | 8,950   | 66    | 8,350   | 62    |
| 2180   | 20500                  | 30 9                   | 22             | 12,700  | 94    | 12,200  | 96    | 11,600  | 88    | 11,100  | 84    | 10,500  | 80    | 9,900   | 78    | 9,450   | 72    |
| 2240   | 21000                  | 32 4                   | 24             | 13,500  | 105   | 13,000  | 100   | 12,500  | 98    | 12,000  | 94    | 11,400  | 92    | 11,000  | 88    | 10,400  | 84    |
| 2280   | 21500                  | 34 0                   | 26             |   |       | 13,800  | 110   | 13,400  | 110   | 12,900  | 105   | 12,400  | 105   | 11,800  | 98    | 11,300  | 94    |
| 2340   | 22000                  | 35 6                   | 28             |   |       |   |       | 14,200  | 120   | 13,800  | 115   | 13,400  | 115   | 12,700  | 110   | 12,200  | 110   |
| 2380   | 22500                  | 37 2                   | 29             |   |       |   |       |   |       | 14,600  | 130   | 14,200  | 125   | 13,600  | 125   | 13,200  | 120   |
|        |                        |                        |                |   |       |   |       |   |       |   |       |   |       |   |       |   |       |
|        |                        |                        |                |   |       |   |       |   |       |   |       |   |       |   |       |   |       |
| R.P.M. | Tip<br>Speed<br>F.P.M. | S.N.D.<br>in<br>inches | S.N.D.<br>H.P. | Static Pressure<br>29" Water<br>16.8 ozs. per<br>sq. inch |       | Static Pressure<br>30" Water<br>17.3 ozs. per<br>sq. inch |       | Static Pressure<br>31" Water<br>17.9 ozs. per<br>sq. inch |       | Static Pressure<br>32" Water<br>18.5 ozs. per<br>sq. inch |       | Static Pressure<br>33" Water<br>19.1 ozs. per<br>sq. inch |       | Static Pressure<br>34" Water<br>19.7 ozs. per<br>sq. inch |       | Static Pressure<br>35" Water<br>20.3 ozs. per<br>sq. inch |       |
| 2020   | 19000                  | 26 6                   | 18 0           | 3,960   | 33    |   |       |   |       |   |       |   |       |   |       |   |       |
| 2070   | 19500                  | 28 0                   | 19 0           | 6,270   | 48    | 5,220   | 41    |   |       |   |       |   |       |   |       |   |       |
| 2120   | 20000                  | 29 4                   | 20 5           | 7,590   | 58    | 6,820   | 52    | 5,950   | 48    | 4,550   | 41    |   |       |   |       |   |       |
| 2180   | 20500                  | 30 9                   | 22             | 8,770   | 68    | 8,120   | 64    | 7,430   | 60    | 6,080   | 56    | 5,620   | 49    |   |       |   |       |
| 2240   | 21000                  | 32 4                   | 24             | 9,900   | 80    | 9,220   | 74    | 8,820   | 70    | 7,950   | 66    | 7,190   | 62    | 6,390   | 56    | 5,170   | 40    |
| 2280   | 21500                  | 34 0                   | 26             | 11,200  | 96    | 10,300  | 86    | 9,700   | 82    | 9,150   | 78    | 8,550   | 74    | 7,850   | 68    | 7,110   | 64    |
| 2340   | 22000                  | 35 6                   | 28             | 11,900  | 105   | 11,400  | 100   | 10,800  | 94    | 10,300  | 90    | 9,650   | 86    | 9,050   | 82    | 8,450   | 76    |
| 2380   | 22500                  | 37 2                   | 29             | 12,800  | 115   | 12,300  | 110   | 11,800  | 105   | 11,200  | 100   | 10,700  | 98    | 10,100  | 94    | 9,570   | 90    |
|        |                        |                        |                |   |       |   |       |   |       |   |       |   |       |   |       |   |       |
|        |                        |                        |                |   |       |   |       |   |       |   |       |   |       |   |       |   |       |
| R.P.M. | Tip<br>Speed<br>F.P.M. | S.N.D.<br>in<br>inches | S.N.D.<br>H.P. | Static Pressure<br>36" Water<br>20.8 ozs. per<br>sq. inch |       | Static Pressure<br>37" Water<br>21.4 ozs. per<br>sq. inch |       | Static Pressure<br>38" Water<br>22.0 ozs. per<br>sq. inch |       | Static Pressure<br>00" Water<br>00.0 ozs. per<br>sq. inch |       | Static Pressure<br>00" Water<br>00.0 ozs. per<br>sq. inch |       | Static Pressure<br>00" Water<br>00.0 ozs. per<br>sq. inch |       | Static Pressure<br>00" Water<br>00.0 ozs. per<br>sq. inch |       |
| 2280   | 21500                  | 34 0                   | 26             | 6,270   | 58    | 4,910   | 50    |   |       |   |       |   |       |   |       |   |       |
| 2340   | 22000                  | 35 6                   | 28             | 7,720   | 72    | 7,030   | 68    | 6,100   | 62    |   |       |   |       |   |       |   |       |
| 2380   | 22500                  | 37 2                   | 29             | 9,000   | 84    | 8,370   | 80    | 7,650   | 76    |   |       |   |       |   |       |   |       |
|        |                        |                        |                |   |       |   |       |   |       |   |       |   |       |   |       |   |       |
|        |                        |                        |                |   |       |   |       |   |       |   |       |   |       |   |       |   |       |



### Single Width

**When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances**

[illegible]

## Double Inlet No. 10 Steel Pressure Blower—Design 2 Single Width

**When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances**

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | S.N.D. H.P. | Volume C.F.M. H. P. | Static Pressure 1" Water .578 ozs. per sq. inch | Volume C.F.M. H. P. | Static Pressure 2" Water 1.16 ozs. per sq. inch | Volume C.F.M. H. P. | Static Pressure 3" Water 1.73 ozs. per sq. inch | Volume C.F.M. H. P. | Static Pressure 4" Water 2.31 ozs. per sq. inch | Volume C.F.M. H. P. | Static Pressure 5" Water 2.89 ozs. per sq. inch | Volume C.F.M. H. P. | Static Pressure 6" Water 3.47 ozs. per sq. inch | Volume C.F.M. H. P. | Static Pressure 7" Water 4.05 ozs. per sq. inch |
|--------|------------------|------------------|-------------|---------------------|---|---------------------|---|---------------------|---|---------------------|---|---------------------|---|---------------------|---|---------------------|---|
| 400    | 5000             | 1 84             | 0 60        | 6,670 3 05          |   | 2,200 1 20          |   |                     |   |                     |   |                     |   |                     |   |                     |   |
| 420    | 5250             | 2 03             | 0 69        | 7,210 3 75          |   | 3,720 1 95          |   |                     |   |                     |   |                     |   |                     |   |                     |   |
| 440    | 5500             | 2 25             | 0 79        | 7,800 4 6           |   | 4,830 2 70          |   |                     |   |                     |   |                     |   |                     |   |                     |   |
| 460    | 5750             | 2 43             | 0 89        | 8,310 5 5           |   | 5,630 3 35          |   |                     |   |                     |   |                     |   |                     |   |                     |   |
| 480    | 6000             | 2 65             | 1 05        | 8,850 6 5           |   | 6,490 4 15          |   |                     |   |                     |   |                     |   |                     |   |                     |   |
| 500    | 6250             | 2 88             | 1 15        | 9,350 7 5           |   | 7,290 5 1           |   |                     |   |                     |   |                     |   |                     |   |                     |   |
| 520    | 6500             | 3 11             | 1 30        | 9,830 8 5           |   |                     |   | 3,620 2 80          |   |                     |   |                     |   |                     |   |                     |   |
| 540    | 6750             | 3 35             | 1 45        | 10,100 9 8          |   |                     |   | 4,810 3 80          |   |                     |   |                     |   |                     |   |                     |   |
| 555    | 7000             | 3 61             | 1 65        | 10,800 11 0         |   |                     |   | 5,920 4 85          |   |                     |   |                     |   |                     |   |                     |   |
| 575    | 7250             | 3 87             | 1 80        | 11,300 12 0         |   |                     |   | 6,780 6 0           |   |                     |   |                     |   |                     |   |                     |   |
| 595    | 7500             | 4 11             | 2 00        | 11,700 14 0         |   |                     |   | 7,700 7 2           |   |                     |   |                     |   |                     |   |                     |   |
| 615    | 7750             | 4 42             | 2 20        | 12,200 15 0         |   |                     |   | 8,440 8 1           |   |                     |   |                     |   |                     |   |                     |   |
| 635    | 8000             | 4 71             | 2 45        | 12,600 17 0         |   |                     |   | 9,220 9 7           |   |                     |   |                     |   |                     |   |                     |   |
| 655    | 8250             | 5 00             | 2 70        | 13,100 18 5         |   |                     |   |                     |   |                     |   |                     |   |                     |   |                     |   |
| 675    | 8500             | 5 31             | 2 95        | 13,500 20 5         |   |                     |   |                     |   |                     |   |                     |   |                     |   |                     |   |
| 695    | 8750             | 5 63             | 3 2         | 14,000 22 5         |   |                     |   |                     |   |                     |   |                     |   |                     |   |                     |   |
| 715    | 9000             | 5 94             | 3 5         | 14,100 24           |   |                     |   |                     |   |                     |   |                     |   |                     |   |                     |   |
| 735    | 9250             | 6 28             | 3 8         | 14,800 26           |   |                     |   |                     |   |                     |   |                     |   |                     |   |                     |   |
| 755    | 9500             | 6 63             | 4 1         | 15,300 29           |   |                     |   |                     |   |                     |   |                     |   |                     |   |                     |   |
| 775    | 9750             | 6 97             | 4 4         | 15,800 32           |   |                     |   |                     |   |                     |   |                     |   |                     |   |                     |   |
| 800    | 10000            | 7 35             | 4 8         | 16,200 35           |   |                     |   |                     |   |                     |   |                     |   |                     |   |                     |   |
| 815    | 10250            | 7 72             | 5 1         | 16,600 37           |   |                     |   |                     |   |                     |   |                     |   |                     |   |                     |   |
| 840    | 10500            | 8 11             | 5 5         | 17,100 41           |   |                     |   |                     |   |                     |   |                     |   |                     |   |                     |   |
| 860    | 10750            | 8 49             | 5 9         | 17,500 44           |   |                     |   |                     |   |                     |   |                     |   |                     |   |                     |   |
| 880    | 11000            | 8 90             | 6 1         | 17,900 47           |   |                     |   |                     |   |                     |   |                     |   |                     |   |                     |   |
| 900    | 11250            | 9 30             | 6 8         | 18,400 51           |   |                     |   |                     |   |                     |   |                     |   |                     |   |                     |   |
| 920    | 11500            | 9 72             | 7 3         | 18,800 55           |   |                     |   |                     |   |                     |   |                     |   |                     |   |                     |   |
| 940    | 11750            | 10 2             | 7 7         | 19,400 59           |   |                     |   |                     |   |                     |   |                     |   |                     |   |                     |   |

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | S.N.D. H.P. | Static Pressure 8" Water 4.63 ozs. per sq. inch | Static Pressure 9" Water 5.2 ozs. per sq. inch | Static Pressure 10" Water 5.78 ozs. per sq. inch | Static Pressure 11" Water 6.36 ozs. per sq. inch | Static Pressure 12" Water 6.93 ozs. per sq. inch | Static Pressure 13" Water 7.51 ozs. per sq. inch | Static Pressure 14" Water 8.09 ozs. per sq. inch |
|--------|------------------|------------------|-------------|---|--|--|--|--|--|--|
| 800    | 10000            | 7 35             | 4 8         | 4,270 9 5                                       |  |  |  |  |  |  |
| 815    | 10250            | 7 72             | 5 1         | 6,120 12 5                                      |  |  |  |  |  |  |
| 840    | 10500            | 8 11             | 5 5         | 7,360 15 5                                      |  |  |  |  |  |  |
| 860    | 10750            | 8 49             | 5 9         | 8,550 18 0                                      | 5,720 13 5                                     |  |  |  |  |  |
| 880    | 11000            | 8 90             | 6 1         | 9,180 21 0                                      | 7,120 16 5                                     |  |  |  |  |  |
| 900    | 11250</          |                  |             |   |  |  |  |  |  |  |

# **No. 10 Steel Pressure Blower — Design 2 — Cont'd**

**Double Inlet**

**Single Width**

**When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances**

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | S.N.D. H.P. | Volume C.F.M.                                    | H. P. | Volume C.F.M.                                    | H. P. | Volume C.F.M.                                    | H. P. | Volume C.F.M.                                    | H. P. | Volume C.F.M.                                  | H. P. | Volume C.F.M.                                    | H. P. | Volume C.F.M.                                    | H. P. |
|--------|------------------|------------------|-------------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|
|        |                  |                  |             | Static Pressure 22" Water 12.7 ozs. per sq. inch |       | Static Pressure 23" Water 13.3 ozs. per sq. inch |       | Static Pressure 24" Water 13.9 ozs. per sq. inch |       | Static Pressure 25" Water 14.4 ozs. per sq. inch |       | Static Pressure 26" Water 15 ozs. per sq. inch |       | Static Pressure 27" Water 15.6 ozs. per sq. inch |       | Static Pressure 28" Water 16.2 ozs. per sq. inch |       |
| 1300   | 17000            | 21 3             | 23 5        | 10,200   | 58    | 7,980  | 49    |  |       |  |       |  |       |  |       |  |       |
| 1390   | 17500            | 22 5             | 26          | 12,800   | 72    | 10,900   | 64    | 9,050  | 58    |  |       |  |       |  |       |  |       |
| 1430   | 18000            | 23 8             | 28          | 14,900   | 86    | 13,500   | 80    | 12,100   | 74    | 9,990  | 64    |  |       |  |       |  |       |
| 1470   | 18500            | 25 2             | 30          | 16,700   | 105   | 15,500   | 96    | 14,200   | 90    | 12,900   | 82    | 11,200   | 74    | 9,200  | 66    |  |       |
| 1510   | 19000            | 26 6             | 33          | 18,600   | 120   | 17,400   | 115   | 16,300   | 105   | 15,000   | 98    | 13,700   | 90    | 12,100   | 84    | 10,500   | 76    |
| 1550   | 19500            | 28 0             | 35          | 20,200   | 140   | 19,200   | 130   | 18,100   | 125   | 17,000   | 115   | 15,800   | 110   | 14,500   | 105   | 13,200   | 96    |
| 1600   | 20000            | 29 4             | 38          | 21,800   | 155   | 20,800   | 150   | 19,800   | 140   | 18,800   | 135   | 18,000   | 130   | 16,500   | 120   | 15,400   | 115   |
| 1630   | 20500            | 30 9             | 41          | 23,500   | 175   | 22,400   | 165   | 21,300   | 160   | 20,400   | 155   | 19,400   | 150   | 18,200   | 140   | 17,400   | 135   |
| 1680   | 21000            | 32 4             | 44          | 24,900   | 190   | 24,000   | 185   | 23,100   | 180   | 22,200   | 175   | 21,100   | 170   | 20,200   | 160   | 19,200   | 155   |
| 1720   | 21500            | 34 0             | 47          |  |       | 25,500   | 205   | 24,800   | 200   | 23,800   | 195   | 22,900   | 190   | 21,800   | 180   | 20,800   | 175   |
| 1760   | 22000            | 35 6             | 50          |  |       |  |       | 26,200   | 220   | 25,400   | 215   | 24,600   | 210   | 23,400   | 205   | 22,500   | 200   |
| 1800   | 22500            | 37 2             | 54          |  |       |  |       |  |       | 26,900   | 235   | 26,100   | 235   | 25,000   | 225   | 24,400   | 220   |

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | S.N.D. H.P. | Static Pressure 29" Water 16.8 ozs. per sq. inch | Static Pressure 30" Water 17.3 ozs. per sq. inch | Static Pressure 31" Water 17.9 ozs. per sq. inch | Static Pressure 32" Water 18.5 ozs. per sq. inch | Static Pressure 33" Water 19.1 ozs. per sq. inch | Static Pressure 34" Water 19.7 ozs. per sq. inch | Static Pressure 35" Water 20.3 ozs. per sq. inch |
|--------|------------------|------------------|-------------|--|--|--|--|--|--|--|
| 1510   | 19000            | 26 6             | 33          | 7,280  | 62   |  |  |  |  |  |
| 1550   | 19500            | 28 0             | 35          | 11,700   | 86   | 9,600  | 76   |  |  |  |
| 1600   | 20000            | 29 4             | 38          | 14,000   | 105  | 12,600   | 96   | 10,800   | 88   | 8,370  |
| 1630   | 20500            | 30 9             | 41          | 16,200   | 125  | 15,000   | 115  | 13,700   | 110  | 12,300   |
| 1680   | 21000            | 32 4             | 44          | 18,200   | 150  | 17,000   | 135  | 15,900   | 130  | 14,700   |
| 1720   | 21500            | 34 0             | 47          | 20,500   | 175  | 18,900   | 160  | 17,900   | 155  | 16,900   |
| 1760   | 22000            | 35 6             | 50          | 21,900   | 190  | 20,900   | 185  | 19,900   | 175  | 18,900   |
| 1800   | 22500            | 37 2             | 54          | 23,500   | 210  | 22,600   | 205  | 21,700   | 195  | 20,800   |

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | S.N.D. H.P. | Static Pressure 36" Water 20.8 ozs. per sq. inch | Static Pressure 37" Water 21.4 ozs. per sq. inch | Static Pressure 38" Water 22 ozs. per sq. inch | Static Pressure 60" Water 0.00 ozs. per sq. inch | Static Pressure 60" Water 0.00 ozs. per sq. inch | Static Pressure 60" Water 0.00 ozs. per sq. inch | Static Pressure 60" Water 0.00 ozs. per sq. inch |
|--------|------------------|------------------|-------------|--|--|--|--|--|--|--|
| 1720   | 21500            | 34 0             | 47          | 11,600   | 110  | 9,040  | 94   |  |  |  |
| 1760   | 22000            | 35 6             | 50          | 14,200   | 130  | 13,000   | 125  | 11,200   | 115  |  |
| 1800   | 22500            | 37 2             | 54          | 16,600   | 155  | 15,400   | 150  | 14,100   | 140  |  |

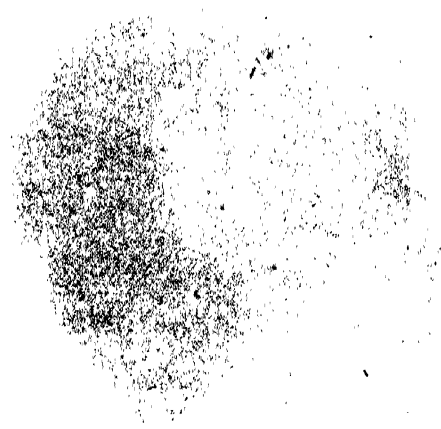




# **EXTRA HEAVY GAS BLOWERS**

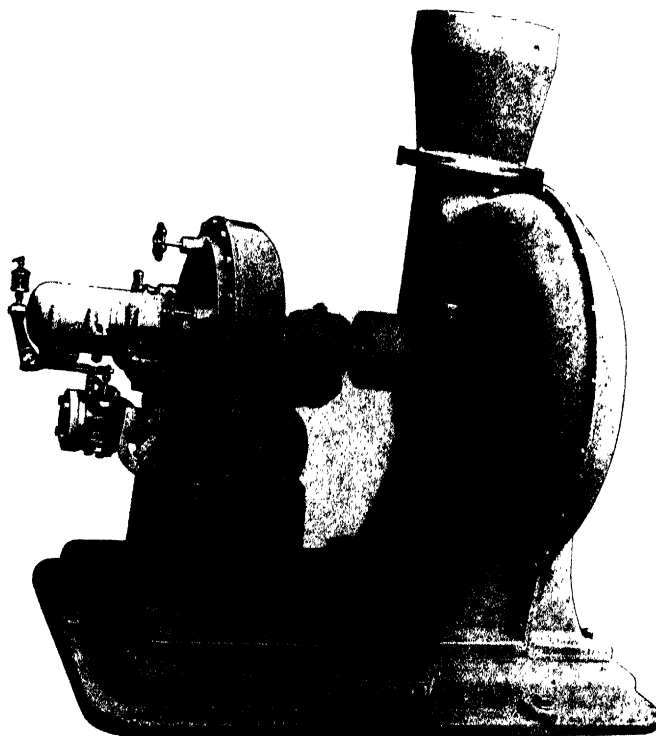
**Cast Iron Fan Types**

**Designs 2, 3, 4 and 5**



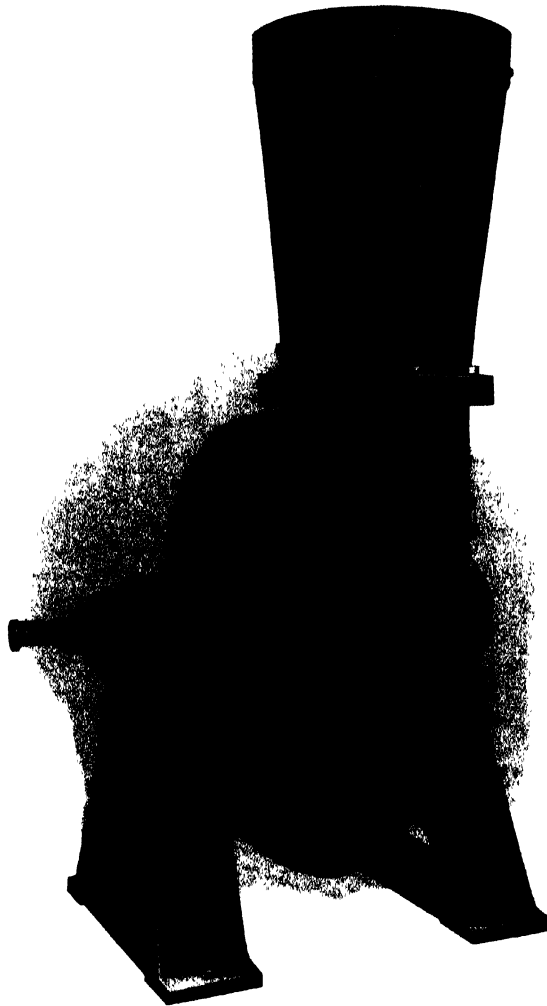
**Dimensions, Capacities, Horse Powers**

## Extra Heavy Gas Blower—Design 2



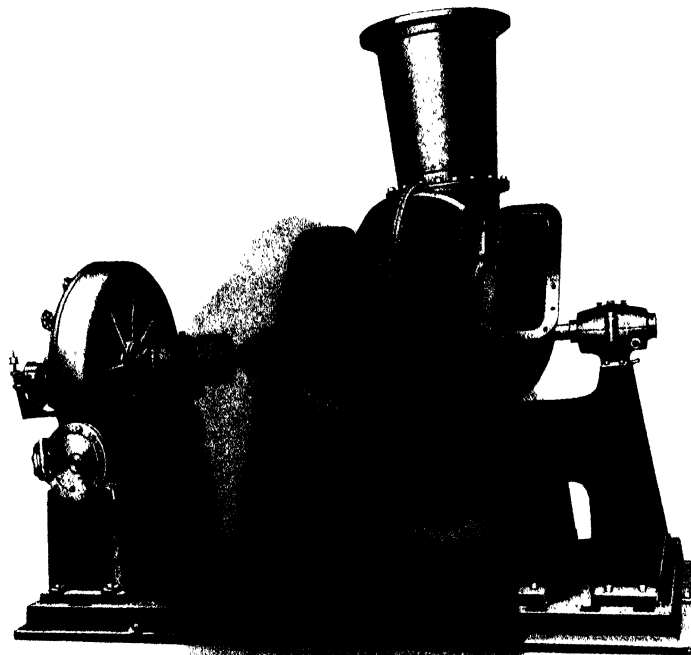
Sturtevant Design 2 Gas Blower

## Extra Heavy Gas Blower—Design 4



Sturtevant Design 4 Gas Blower

# Extra Heavy Gas Blower—Design 5



Sturtevant Design 5

## EXTRA HEAVY GAS BLOWER — DESIGN 2

### SPECIFICATIONS

**General.** There shall be furnished a number.....Design No. 2 Sturtevant Extra Heavy Gas Blower which will be made double inlet, single width.....hand.....discharge; and full housing. Fan shall be supplied with expanding outlet.....diameter at the discharge end. Total height of the fan housing shall be approximately.....inches; the width of the fan in direction of shaft approximately.....inches; length traverse to the shaft approximately.....inches. The Fan shall have a capacity of.....cubic feet of free air per minute against a resistance of.....inches water gauge, at the outlet, when air is supplied freely to the inlet. Fan shall operate approximately.....R. P. M., requiring approximately.....B. H. P.

**Housing.** Housing shall be of spiral form constructed of cast iron, made in two halves, flanged and securely bolted together, casing to be split on a plane at right angles to the shaft. Fan to be supported by heavy cast-iron feet, cast integral with the fan casing. Fan casing shall be supplied with machined foundation pieces to which the bearing brackets shall be securely bolted.

**Bearings.** The Bearings shall be of the chair box type provided with suitable means for supplying continuous lubrication. They shall be of large diameter and built extra long to give ample bearing support and shall be lined with best quality babbitt containing upwards of 85 per cent. tin, bored and scraped to exact size.

**Shaft.** Shaft shall be made from a steel forging, carefully turned and after keyways are cut, shall be accurately ground and polished.

**Wheels.** The blades of the blast wheel shall be made of refined steel plate, flanged and riveted to the side plates which shall be made of refined steel plate in one piece, carefully cut and pressed to shape. Hub shall be made in sizes 4 and 5 of malleable iron. On sizes 6, 7, 8, 9, and 10, hub shall be made of cast iron having cast integral with it and radiating from it steel arms of T section. Hub shall be accurately bored and fitted to shaft; at the outer end of the arms, steel blades shall be securely riveted. Wheels shall be carefully balanced.

# EXTRA HEAVY GAS BLOWER—DESIGN 4

## SPECIFICATIONS

**General.** There shall be furnished a number .....Design 4 Sturtevant Extra Heavy Gas Blower which shall be made double inlet, single width..... hand.....discharge and have full housing. Blower shall be supplied with expanded outlet .. inches diameter at the discharge end. Total height of fan housing shall be approximately.....inches; width of fan in the direction of the shaft approximately..... inches; length transverse to the shaft approximately..... inches. Blower shall have capacity of..... cubic feet of free air per minute against resistance of..... inches water gauge at the outlet when air is supplied freely to the inlet, and it shall operate at approximately..... R. P. M., requiring approximately..... B. H. P.

**Housing.** The housing shall be of spiral form constructed of cast iron and made in two halves, flanged and securely bolted together. These shall be split in a plane at right angles to the shaft. Housing shall be reinforced by heavy strengthening ribs running from the centre flange to circular reinforcing ribs concentric with the inlets. Housing shall be convertible and drilled so that the fan can be arranged for in any one of the eight different discharges and for either right or left hand.

**Bearings.** The bearings shall be of the spherical seated self-aligning type provided with split bearing sleeves of suitable length and size to give ample bearing support. Bearing sleeves shall be mounted in oil-tight and dust-tight housing, and provided with suitable sight gauge for determining the oil level. Bearings shall be thoroughly and continuously lubricated by means of oil rings. Bearings shall be provided with thrust collars which also act as oil throwers to catch and return to the oil reservoir any oil tending to creep along the shaft. Bearings shall be lined with best quality babbitt metal, containing upwards of 85 per cent. tin, bored, and scraped to exact size. Bearings shall be supported on rigid cast-iron pedestal which also supports the fan housing.

**Shaft.** Shaft shall be made of steel forging carefully turned and after the keyways are cut, shall be accurately ground and polished. Shaft shall be tapered to give ample strength where the wheel is mounted, and to reduce the size through the bearing to prevent excessive bearing speed.

**Wheels.** Blades of blast wheel shall be of refined steel plate; flanged and riveted to the side plates which shall also be made of refined steel plate in one piece, carefully cut and pressed to shaft. Blades shall be securely riveted to T-arms of spider. Spider shall consist of a heavy cast-iron hub, having tapered steel T-arms cast integral with it and radiating from it. Hub shall be accurately bored and fitted to shaft. There shall be a steel reinforcing ring securely riveted to the inlets of the wheel. Wheel shall be carefully balanced.

## **Extra Heavy Gas Blower—Designs 2, 3, 4 and 5 Cast Iron Fan Type**

### **EXPLANATION OF TABLES**

We refer you to the general explanation of tables at the front of the book and to the explanation of the tables for **Monogram Fans**.



## Extra Heavy Gas Blower

### APPROXIMATE WEIGHTS

#### Design 2

| Size | Blower only | Adjustable bed,<br>sliding outlet |
|------|-------------|-----------------------------------|
| 4    | 290         | 470                               |
| 5    | 500         | 700                               |
| 6    | 700         | 990                               |
| 7    | 1150        | 1650                              |
| 8    | 1650        | 2385                              |
| 9    | 2000        | 3400                              |
| 10   | 3250        | 5000                              |

#### Design 4

| Size | Blower only |  |
|------|-------------|--|
| 4    | 450         |  |
| 5    | 700         |  |
| 6    | 1000        |  |
| 7    | 1700        |  |
| 8    | 2400        |  |
| 9    | 3000        |  |
| 10   | 4700        |  |

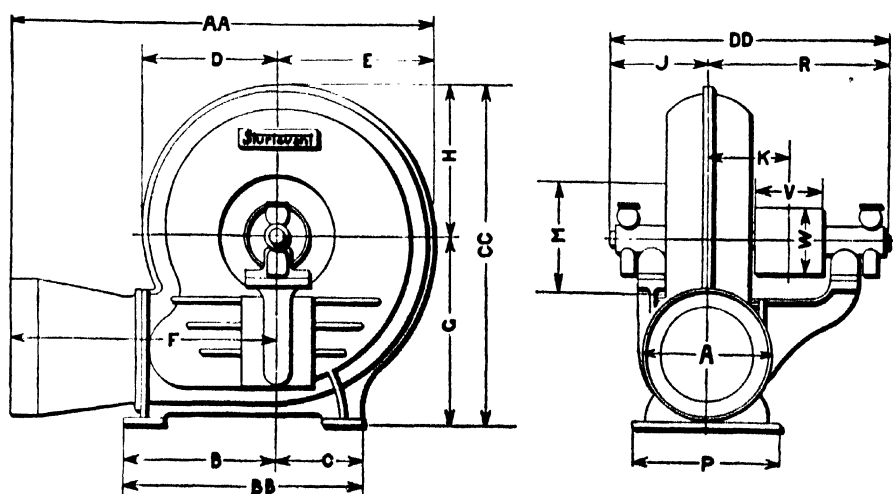
Double Inlet

**Extra Heavy Gas Blower—Design 2**

Single Width

Full Housing

Bottom Horizontal Discharge



| Fan Size | A   | B   | C   | D   | E   | F   | G   | H   | J   | K   | M   | P   | R   | V  | W  | AA  | BB  | CC  | DD  | Wheel Diameter | Shaft Diameter | Anchor Bolts |
|----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|-----|-----|-----|-----|----------------|----------------|--------------|
| 4        | 13½ | 15½ | 7½  | 12½ | 15  | 25½ | 17½ | 13½ | 9   | 7½  | 10½ | 14  | 16½ | 7  | 6  | 40½ | 22½ | 31  | 25½ | 19             | 1              | ½            |
| 5        | 14½ | 17½ | 9½  | 14½ | 17½ | 30½ | 20  | 16½ | 10½ | 9   | 11½ | 16½ | 19½ | 8  | 7  | 48  | 27  | 36½ | 29½ | 21½            | 1½             | ½            |
| 6        | 16  | 20  | 11  | 17  | 20½ | 32½ | 23  | 18½ | 11½ | 10  | 14½ | 19  | 22  | 9  | 8  | 53  | 31  | 41½ | 33½ | 26             | 1¾             | ½            |
| 7        | 22  | 23½ | 12½ | 20  | 24  | 50  | 28  | 22  | 14½ | 13  | 16  | 24  | 26½ | 11 | 9  | 74  | 36½ | 50  | 40½ | 30½            | 1½             | ¾            |
| 8        | 25  | 26½ | 13½ | 23½ | 27½ | 56½ | 31½ | 25½ | 17½ | 15½ | 18  | 27½ | 32½ | 13 | 10 | 83½ | 40½ | 56½ | 49½ | 36             | 1¾             | ¾            |
| 9        | 30  | 30½ | 16½ | 26  | 31½ | 64  | 37  | 28½ | 19½ | 18  | 21  | 31½ | 36½ | 15 | 12 | 95½ | 46½ | 65½ | 56½ | 40             | 1¾             | ¾            |
| 10       | 34  | 34½ | 21½ | 31½ | 37½ | 71½ | 43  | 34½ | 21½ | 22  | 24  | 36½ | 40½ | 17 | 14 | 109 | 56½ | 77½ | 61½ | 48             | 2¾             | 1            |

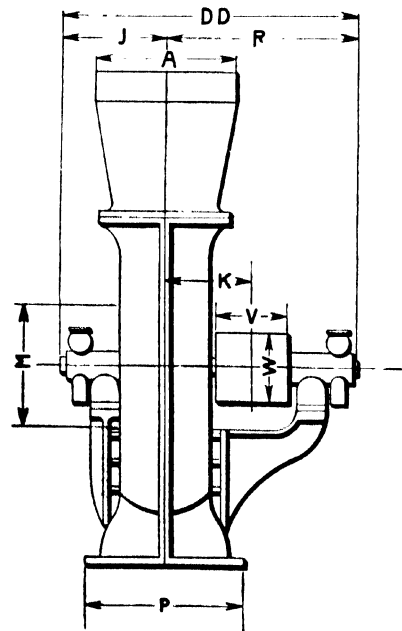
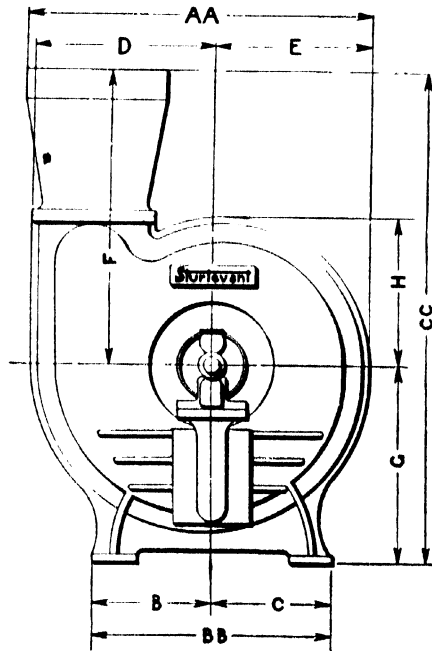
Double Inlet

## Extra Heavy Gas Blower—Design 2

Single Width

Full Housing

Up Blast Discharge



| Fan Size | A   | B   | C   | D   | E   | F   | G   | H   | J   | K   | M   | P   | R   | V  | W  | AA  | BB  | CC   | DD  | Extreme Wheel Diameter | Shaft Diameter | Anchor Bolts |
|----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|-----|-----|------|-----|------------------------|----------------|--------------|
| 4        | 13½ | 10  | 10  | 16½ | 13½ | 25½ | 17½ | 12½ | 9   | 7½  | 10½ | 14  | 16½ | 7  | 6  | 31½ | 20  | 42½  | 25½ | 19                     | 1              | ½            |
| 5        | 14½ | 12½ | 12½ | 19  | 16½ | 30½ | 20½ | 14½ | 10½ | 9   | 11½ | 16½ | 19½ | 8  | 7  | 36  | 24½ | 50½  | 29½ | 21½                    | 1½             | ¾            |
| 6        | 16  | 19  | 12  | 22½ | 18½ | 32½ | 23½ | 17  | 11½ | 10  | 14½ | 19  | 22  | 9  | 8  | 41½ | 31  | 56   | 33½ | 26                     | 1½             | ¾            |
| 7        | 22  | 16  | 16  | 26  | 22  | 50  | 27½ | 20  | 11½ | 13  | 16  | 24  | 26½ | 11 | 9  | 49½ | 32  | 77½  | 40½ | 30½                    | 1½             | ¾            |
| 8        | 25  | 18  | 18  | 29½ | 25½ | 56½ | 30½ | 23½ | 17½ | 15½ | 18  | 27½ | 32½ | 13 | 10 | 56½ | 36  | 87   | 49½ | 36                     | 1½             | ¾            |
| 9        | 30  | 20½ | 20½ | 34½ | 28½ | 64  | 35½ | 26  | 19½ | 18  | 21  | 31½ | 36½ | 15 | 12 | 65½ | 40½ | 99½  | 56½ | 40                     | 1½             | ¾            |
| 10       | 34  | 23½ | 23½ | 40½ | 34½ | 71½ | 39½ | 31½ | 21½ | 22  | 24  | 36½ | 40½ | 17 | 14 | 77½ | 47  | 111½ | 61½ | 48                     | 2              | 1            |

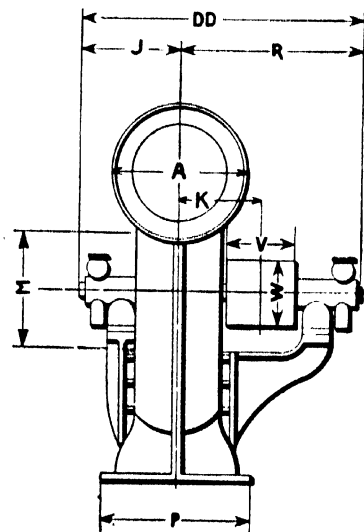
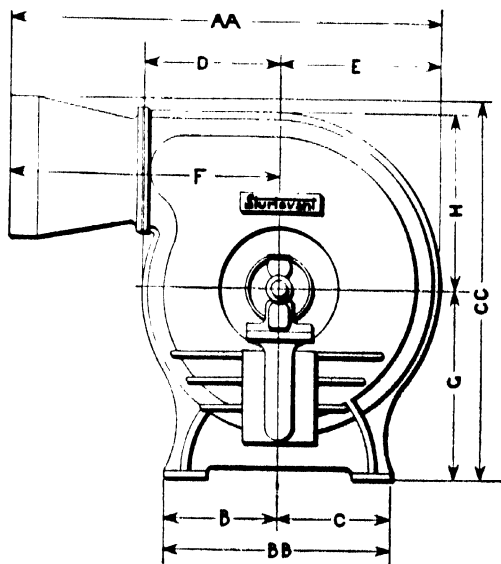
Double Inlet

**Extra Heavy Gas Blower—Design 2**

Single Width

Full Housing

Top Horizontal Discharge



| Fan Size | A   | B   | C   | D   | E   | F   | G   | H   | J   | K   | M   | P   | R   | V  | W  | AA  | BB  | CC  | DD  | Wheel Diameter | Shaft Diameter | Anchor Bolts |
|----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|-----|-----|-----|-----|----------------|----------------|--------------|
| 4        | 13½ | 11½ | 11½ | 12½ | 15  | 25½ | 15½ | 16½ | 9   | 7½  | 10½ | 14  | 16½ | 7  | 6  | 40½ | 22½ | 33  | 25½ | 19             | 1              | ½            |
| 5        | 14½ | 12½ | 12½ | 14½ | 17½ | 30½ | 18½ | 19  | 10½ | 9   | 11½ | 16½ | 19½ | 8  | 7  | 48  | 24½ | 38½ | 29½ | 21½            | 1½             | ½            |
| 6        | 16  | 17  | 13½ | 17  | 20½ | 32½ | 22  | 22½ | 11½ | 10  | 14½ | 19  | 22  | 9  | 8  | 53  | 30½ | 44½ | 33½ | 26             | 1½             | ½            |
| 7        | 22  | 16½ | 15½ | 20  | 24  | 50  | 23½ | 26  | 14½ | 13  | 16  | 21  | 26½ | 11 | 9  | 74  | 32  | 51½ | 40½ | 30½            | 1½             | ½            |
| 8        | 25  | 17½ | 17½ | 23½ | 27½ | 56½ | 28  | 29½ | 17½ | 15½ | 18  | 27½ | 32½ | 13 | 10 | 83½ | 35½ | 59½ | 49½ | 36             | 1½             | ½            |
| 9        | 30  | 20½ | 20½ | 26  | 31½ | 64  | 32½ | 34½ | 19½ | 18  | 21  | 31½ | 36½ | 15 | 12 | 95½ | 40½ | 69½ | 56½ | 40             | 1½             | ½            |
| 10       | 34  | 23½ | 23½ | 31½ | 37½ | 71½ | 36  | 40½ | 21½ | 22  | 24  | 36½ | 40½ | 17 | 14 | 109 | 47  | 79½ | 61½ | 48             | 2½             | 1            |

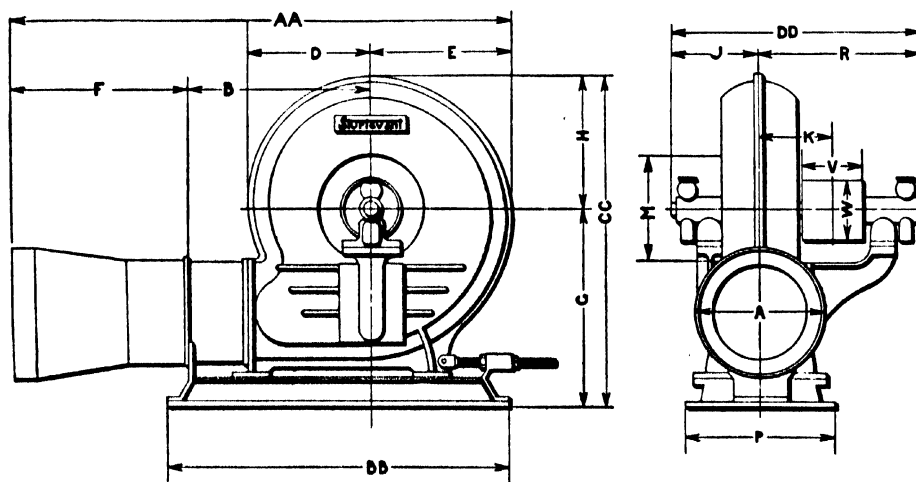
Double Inlet

# Extra Heavy Gas Blower with Adjustable Bed Design 2

Single Width

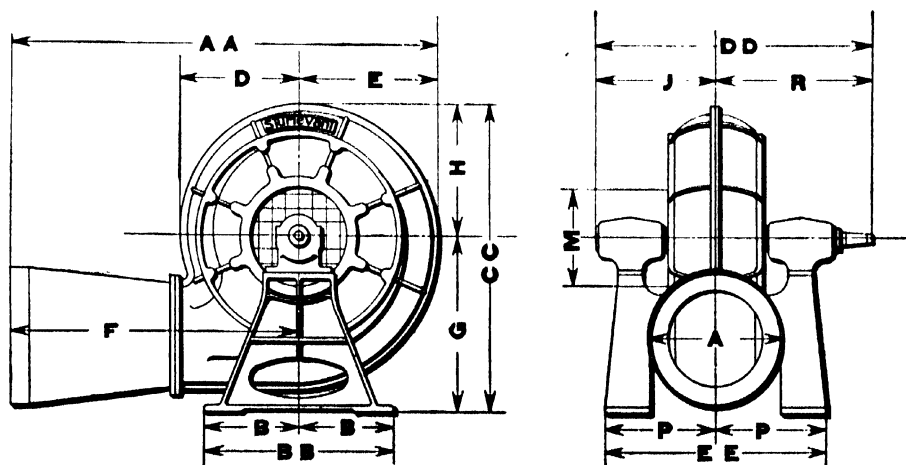
Full Housing

Bottom Horizontal Discharge



| Fan Size | A   | B   | D   | E   | F   | G   | H   | J   | K   | M   | P   | R   | V  | W  | AA   | BB  | CC  | DD  | Wheel Diameter | Shaft Diameter | Anchor Bolts |
|----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|------|-----|-----|-----|----------------|----------------|--------------|
| 4        | 13½ | 25½ | 12½ | 15  | 20½ | 20½ | 13½ | 9   | 7½  | 10½ | 15½ | 16½ | 7  | 6  | 61½  | 34½ | 34  | 25½ | 19             | 1              | ¾            |
| 5        | 14½ | 29½ | 14½ | 17½ | 24  | 23½ | 16½ | 10½ | 9   | 11½ | 18  | 19½ | 8  | 7  | 70½  | 40½ | 39½ | 29½ | 21½            | 1½             | ¾            |
| 6        | 16  | 32½ | 17  | 20½ | 25  | 27½ | 18½ | 11½ | 10  | 14½ | 20½ | 22  | 9  | 8  | 77½  | 46  | 45½ | 33½ | 26             | 1¾             | ¾            |
| 7        | 22  | 36½ | 20  | 24  | 32½ | 33  | 22  | 14½ | 13  | 16  | 26½ | 26½ | 11 | 9  | 93   | 52½ | 55  | 40½ | 30½            | 1½             | ¾            |
| 8        | 25  | 40½ | 23½ | 27½ | 36  | 37½ | 25½ | 17½ | 15½ | 18  | 30  | 32½ | 13 | 10 | 105  | 59½ | 62½ | 49½ | 36             | 1½             | ¾            |
| 9        | 30  | 47½ | 26  | 31½ | 44  | 44  | 28½ | 19½ | 18  | 21  | 35  | 36½ | 15 | 12 | 123½ | 68  | 72½ | 56½ | 40             | 1½             | ¾            |
| 10       | 34  | 54½ | 31½ | 37½ | 49½ | 51  | 34½ | 21½ | 22  | 24  | 40  | 40½ | 17 | 14 | 141½ | 80½ | 85½ | 61½ | 48             | 2½             | 1            |

Double Inlet      **Extra Heavy Gas Blower—Design 4**      Single Width  
Full Housing      Bottom Horizontal Discharge      Overhung Pulley



| Size | A   | B   | D   | E   | F   | G   | H   | J   | M   | P   | R   | AA   | BB  | CC  | DD  | EE  | Wheel Diameter | Shaft Diameter |        | Anchor Bolts |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|----------------|----------------|--------|--------------|
|      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |                | in Bearing     | in Hub |              |
| 4    | 13½ | 12½ | 13½ | 15½ | 25½ | 19  | 14½ | 14½ | 10  | 13½ | 19½ | 41   | 25  | 33½ | 34½ | 27  | 19             | 1½             | 1½     | 1            |
| 5    | 14½ | 13½ | 15½ | 17½ | 30½ | 21½ | 16½ | 15½ | 11½ | 14½ | 20½ | 48   | 27½ | 38  | 36½ | 29½ | 21½            | 1½             | 1½     | 1            |
| 6    | 16½ | 15½ | 17½ | 20½ | 32½ | 24½ | 18½ | 19½ | 14½ | 17½ | 25½ | 52½  | 30½ | 43½ | 44½ | 34½ | 26             | 1½             | 2½     | 1½           |
| 7    | 22  | 16½ | 20  | 24  | 50  | 29  | 22  | 21½ | 16  | 20  | 28½ | 74   | 33  | 51  | 50½ | 40  | 30½            | 2½             | 2½     | 1½           |
| 8    | 26  | 19½ | 22½ | 26½ | 56½ | 33  | 24½ | 23½ | 18  | 22  | 30½ | 83½  | 38½ | 57½ | 53½ | 44  | 36             | 2½             | 2½     | 1½           |
| 9    | 30  | 21½ | 26½ | 31  | 64½ | 38  | 28½ | 26½ | 21  | 24½ | 35  | 95½  | 42½ | 66½ | 61½ | 49  | 40             | 2½             | 3½     | 1½           |
| 10   | 34  | 25½ | 31  | 37  | 71½ | 45  | 34½ | 28½ | 24  | 27½ | 37½ | 108½ | 51  | 79½ | 66½ | 55½ | 48             | 2½             | 3½     | 1½           |

Double Inlet

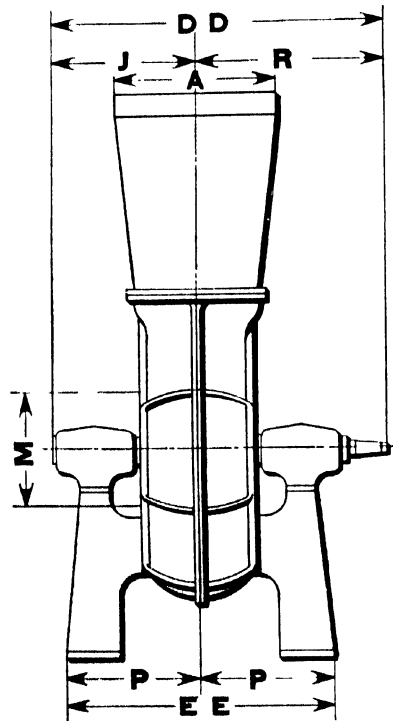
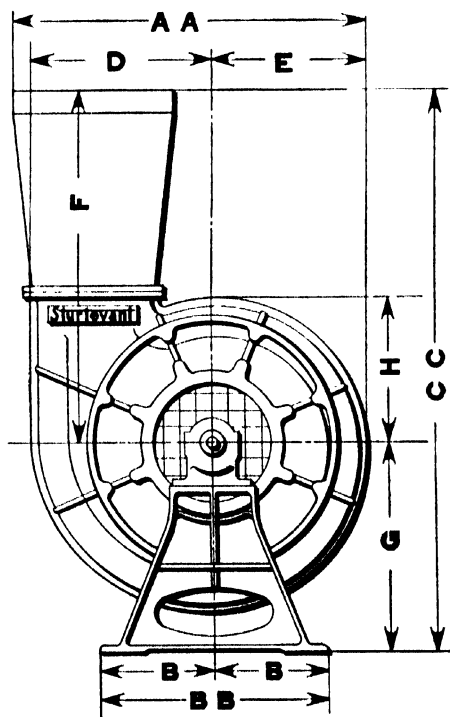
**Extra Heavy Gas Blower—Design 4**

Single Width

Full Housing

Up Blast Discharge

Overhung Pulley



| Size | A                | B                | D                | E                | F                | G                | H                | J                | M                | P                | R                | AA               | BB               | CC                | DD               | EE               | Wheel Diameter   | Shaft Diameter  |                 | Anchor Bolts    |
|------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|------------------|------------------|------------------|-----------------|-----------------|-----------------|
|      |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                   |                  |                  |                  | in Bearing      | in Hub          |                 |
| 4    | 13 $\frac{1}{2}$ | 12 $\frac{1}{2}$ | 16 $\frac{1}{2}$ | 14 $\frac{1}{2}$ | 25 $\frac{1}{2}$ | 19               | 13 $\frac{1}{2}$ | 14 $\frac{5}{8}$ | 10               | 13 $\frac{1}{2}$ | 19 $\frac{1}{2}$ | 31 $\frac{1}{2}$ | 25               | 44 $\frac{1}{2}$  | 34 $\frac{1}{2}$ | 27               | 19               | 1 $\frac{1}{2}$ | 1 $\frac{1}{8}$ | 7               |
| 5    | 14 $\frac{1}{2}$ | 13 $\frac{1}{2}$ | 19               | 16 $\frac{1}{2}$ | 30 $\frac{1}{2}$ | 21 $\frac{1}{2}$ | 15 $\frac{1}{2}$ | 15 $\frac{5}{8}$ | 11 $\frac{1}{2}$ | 14 $\frac{1}{2}$ | 20 $\frac{1}{2}$ | 36 $\frac{1}{2}$ | 27 $\frac{1}{2}$ | 51 $\frac{1}{2}$  | 36 $\frac{1}{2}$ | 29 $\frac{1}{2}$ | 21 $\frac{1}{2}$ | 1 $\frac{1}{2}$ | 1 $\frac{1}{8}$ | 1               |
| 6    | 16 $\frac{1}{2}$ | 15 $\frac{1}{2}$ | 21 $\frac{1}{2}$ | 18 $\frac{1}{2}$ | 32 $\frac{1}{2}$ | 24 $\frac{1}{2}$ | 17 $\frac{1}{2}$ | 19 $\frac{5}{8}$ | 14 $\frac{1}{2}$ | 17 $\frac{1}{2}$ | 25 $\frac{1}{2}$ | 41 $\frac{1}{2}$ | 30 $\frac{1}{2}$ | 56 $\frac{1}{2}$  | 44 $\frac{1}{2}$ | 34 $\frac{1}{2}$ | 26               | 1 $\frac{1}{2}$ | 2 $\frac{1}{8}$ | 1 $\frac{1}{2}$ |
| 7    | 22               | 16 $\frac{1}{2}$ | 26               | 22               | 50               | 29               | 20               | 21 $\frac{1}{2}$ | 16               | 20               | 28 $\frac{1}{2}$ | 49 $\frac{1}{2}$ | 33               | 79                | 50 $\frac{1}{2}$ | 40               | 30 $\frac{1}{2}$ | 2 $\frac{1}{2}$ | 2 $\frac{1}{8}$ | 1 $\frac{1}{2}$ |
| 8    | 26               | 19 $\frac{1}{2}$ | 29 $\frac{1}{2}$ | 24 $\frac{1}{2}$ | 56 $\frac{1}{2}$ | 33               | 22 $\frac{1}{2}$ | 23 $\frac{1}{2}$ | 18               | 22               | 30 $\frac{1}{2}$ | 56 $\frac{1}{2}$ | 38 $\frac{1}{2}$ | 89 $\frac{1}{2}$  | 53 $\frac{1}{2}$ | 44               | 36               | 2 $\frac{1}{2}$ | 2 $\frac{1}{8}$ | 1 $\frac{1}{2}$ |
| 9    | 30               | 21 $\frac{1}{2}$ | 33 $\frac{1}{2}$ | 28 $\frac{1}{2}$ | 64 $\frac{1}{2}$ | 38               | 26 $\frac{1}{2}$ | 26 $\frac{1}{2}$ | 21               | 24 $\frac{1}{2}$ | 35               | 65 $\frac{1}{2}$ | 42 $\frac{1}{2}$ | 102 $\frac{1}{2}$ | 61 $\frac{1}{2}$ | 49               | 40               | 2 $\frac{1}{2}$ | 3 $\frac{1}{8}$ | 1 $\frac{1}{2}$ |
| 10   | 34               | 25 $\frac{1}{2}$ | 40 $\frac{1}{2}$ | 34 $\frac{1}{2}$ | 71 $\frac{1}{2}$ | 45               | 31               | 28 $\frac{1}{2}$ | 24               | 27 $\frac{1}{2}$ | 37 $\frac{1}{2}$ | 77 $\frac{1}{2}$ | 51               | 116 $\frac{1}{2}$ | 66 $\frac{1}{2}$ | 55 $\frac{1}{2}$ | 48               | 2 $\frac{1}{2}$ | 3 $\frac{1}{8}$ | 1 $\frac{1}{2}$ |

Double Inlet

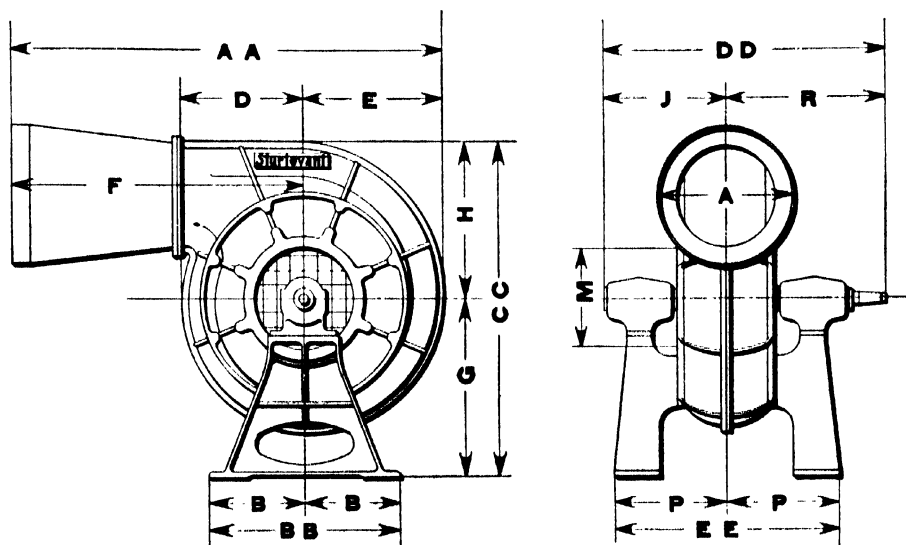
**Extra Heavy Gas Blower—Design 4**

Single Width

Full Housing

Top Horizontal Discharge

Overhung Pulley



| Size | A                | B                | D                | E                | F                | G                | H                | J                | M                | P                | R                | AA                | BB               | CC               | DD               | EE               | Wheel<br>Diameter | Shaft Diameter  |                 | Anchor<br>Bolts |
|------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|------------------|------------------|------------------|------------------|-------------------|-----------------|-----------------|-----------------|
|      |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                   |                  |                  |                  |                  |                   | in<br>Bearing   | in<br>Hub       |                 |
| 4    | 13 $\frac{1}{2}$ | 12 $\frac{1}{2}$ | 13 $\frac{1}{2}$ | 15 $\frac{1}{2}$ | 25 $\frac{3}{4}$ | 19               | 16 $\frac{1}{2}$ | 14 $\frac{1}{2}$ | 10               | 13 $\frac{1}{2}$ | 19 $\frac{1}{2}$ | 41                | 25               | 35 $\frac{1}{2}$ | 34 $\frac{1}{2}$ | 27               | 19                | 1 $\frac{1}{2}$ | 1 $\frac{1}{2}$ | 1               |
| 5    | 14 $\frac{1}{2}$ | 13 $\frac{1}{2}$ | 15 $\frac{1}{2}$ | 17 $\frac{1}{2}$ | 30 $\frac{1}{2}$ | 21 $\frac{1}{2}$ | 19               | 15 $\frac{3}{8}$ | 11 $\frac{1}{2}$ | 14 $\frac{3}{8}$ | 20 $\frac{3}{8}$ | 48                | 27 $\frac{1}{2}$ | 40 $\frac{1}{2}$ | 36 $\frac{1}{2}$ | 29 $\frac{1}{2}$ | 21 $\frac{1}{2}$  | 1 $\frac{1}{2}$ | 1 $\frac{1}{2}$ | 1               |
| 6    | 16 $\frac{1}{2}$ | 15 $\frac{1}{2}$ | 17 $\frac{1}{2}$ | 20 $\frac{1}{2}$ | 32 $\frac{3}{8}$ | 24 $\frac{1}{2}$ | 21 $\frac{1}{2}$ | 19 $\frac{3}{8}$ | 14 $\frac{1}{2}$ | 17 $\frac{1}{2}$ | 25 $\frac{1}{2}$ | 52 $\frac{1}{2}$  | 30 $\frac{1}{2}$ | 46 $\frac{1}{2}$ | 44 $\frac{1}{2}$ | 34 $\frac{1}{2}$ | 26                | 1 $\frac{1}{2}$ | 2 $\frac{3}{8}$ | 1 $\frac{1}{2}$ |
| 7    | 22               | 16 $\frac{1}{2}$ | 20               | 24               | 50               | 29               | 26               | 21 $\frac{1}{2}$ | 16               | 20               | 28 $\frac{1}{2}$ | 74                | 33               | 55               | 50 $\frac{1}{2}$ | 40               | 30 $\frac{1}{2}$  | 2 $\frac{1}{2}$ | 2 $\frac{1}{2}$ | 1 $\frac{1}{2}$ |
| 8    | 26               | 19 $\frac{1}{2}$ | 22 $\frac{1}{2}$ | 26 $\frac{1}{2}$ | 56 $\frac{1}{2}$ | 33               | 29 $\frac{1}{2}$ | 23 $\frac{1}{2}$ | 18               | 22               | 30 $\frac{1}{2}$ | 83 $\frac{1}{2}$  | 38 $\frac{1}{2}$ | 62 $\frac{1}{2}$ | 53 $\frac{1}{2}$ | 44               | 36                | 2 $\frac{1}{2}$ | 2 $\frac{1}{2}$ | 1 $\frac{1}{2}$ |
| 9    | 30               | 21 $\frac{1}{2}$ | 26 $\frac{1}{2}$ | 31               | 64 $\frac{1}{2}$ | 38               | 33 $\frac{1}{2}$ | 26 $\frac{1}{2}$ | 21               | 24 $\frac{1}{2}$ | 35               | 95 $\frac{1}{2}$  | 42 $\frac{1}{2}$ | 71 $\frac{1}{2}$ | 61 $\frac{1}{2}$ | 49               | 40                | 2 $\frac{1}{2}$ | 3 $\frac{1}{2}$ | 1 $\frac{1}{2}$ |
| 10   | 34               | 25 $\frac{1}{2}$ | 31               | 37               | 71 $\frac{1}{2}$ | 45               | 40 $\frac{1}{2}$ | 28 $\frac{1}{2}$ | 24               | 27 $\frac{1}{2}$ | 37 $\frac{1}{2}$ | 108 $\frac{1}{2}$ | 51               | 85 $\frac{1}{2}$ | 66 $\frac{1}{2}$ | 55 $\frac{1}{2}$ | 48                | 2 $\frac{1}{2}$ | 3 $\frac{1}{2}$ | 1 $\frac{1}{2}$ |



### Single Width

**When Receiving Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances**

[illegible]

**Double Inlet      No. 4 Extra Heavy Gas Blower—Designs 2, 3, 4 and 5—Con.      Single Width**

**When Receiving Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances**

[illegible]

### Single Width

**When Receiving Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances**

[illegible]

**Single Width**

**When Receiving Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances:**

[illegible]

### Single Width

**When Receiving Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances**

[illegible]

## Single Width

**When Receiving Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances**

[illegible]

### Single Width

When Receiving Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

218

## Single Width

| R.P.M. | Tip Speed<br>F.P.M. | S.N.D.<br>in Inches | S.N.D.<br>H.P. | Volume<br>C.F.M.  | H. P. | Volume<br>C.F.M.  | H. P. | Volume<br>C.F.M.  | H. P. | Volume<br>C.F.M.  | H. P. | Volume<br>C.F.M.  | H. P. | Volume<br>C.F.M.  | H. P. | Volume<br>C.F.M.  | H. P. | Volume<br>C.F.M. | H. P. |
|--------|---------------------|---------------------|----------------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|------------------|-------|
|        |                     |                     |                | Static Pressure<br>28" Water<br>16.8 ozs. per<br>sq. inch |       | Static Pressure<br>30" Water<br>17.3 ozs. per<br>sq. inch |       | Static Pressure<br>31" Water<br>17.9 ozs. per<br>sq. inch |       | Static Pressure<br>32" Water<br>18.5 ozs. per<br>sq. inch |       | Static Pressure<br>33" Water<br>19.1 ozs. per<br>sq. inch |       | Static Pressure<br>34" Water<br>19.7 ozs. per<br>sq. inch |       | Static Pressure<br>35" Water<br>20.2 ozs. per<br>sq. inch |       |                  |       |
| 2245   | 18125               | 27 2                | 17             | 6,340   | 42    |   |       |   |       |   |       |   |       |   |       |   |       |                  |       |
| 2260   | 18250               | 27 5                | 17             | 7,200   | 47    |   |       |   |       |   |       |   |       |   |       |   |       |                  |       |
| 2285   | 18375               | 27 8                | 17             | 7,930   | 52    | 5,420   | 39    |   |       |   |       |   |       |   |       |   |       |                  |       |
| 2300   | 18500               | 28 3                | 18             | 8,550   | 54    | 6,900   | 47    |   |       |   |       |   |       |   |       |   |       |                  |       |
| 2315   | 18625               | 28 6                | 18             | 9,120   | 60    | 7,780   | 52    | 4,900   | 38    |   |       |   |       |   |       |   |       |                  |       |
| 2330   | 18750               | 29 0                | 18             | 9,600   | 62    | 8,340   | 56    | 6,560   | 47    |   |       |   |       |   |       |   |       |                  |       |
| 2360   | 19000               | 29 8                | 19             | 10,500  | 70    | 9,500   | 64    | 8,260   | 58    | 6,100   | 46    |   |       |   |       |   |       |                  |       |
| 2390   | 19250               | 30 6                | 20             | 11,400  | 78    | 10,500  | 72    | 9,370   | 66    | 8,100   | 58    | 5,580   | 45    |   |       |   |       |                  |       |
| 2420   | 19500               | 31 4                | 21             | 12,100  | 84    | 11,300  | 80    | 10,400  | 74    | 9,230   | 66    | 7,950   | 60    |   |       |   |       |                  |       |
| 2435   | 19625               | 31 8                | 21             | 12,500  | 88    | 11,700  | 82    | 10,800  | 78    | 9,820   | 72    | 8,630   | 64    | 6,870   | 54    |   |       |                  |       |
| 2450   | 19750               | 32 2                | 21             | 12,800  | 92    | 12,100  | 86    | 11,200  | 80    | 10,200  | 74    | 9,200   | 68    | 7,780   | 60    |   |       |                  |       |
| 2465   | 19875               | 32 6                | 22             | 13,200  | 96    | 12,500  | 90    | 11,600  | 84    | 10,800  | 78    | 9,680   | 72    | 8,480   | 65    | 6,420   | 52    |                  |       |
| 2480   | 20000               | 33 0                | 22             | 13,500  | 98    | 12,900  | 94    | 12,100  | 88    | 11,200  | 82    | 10,200  | 76    | 9,100   | 70    | 7,580   | 60    |                  |       |
| 2544   | 20500               | 34 7                | 24             | 14,200  | 110   | 14,200  | 110   | 13,500  | 105   | 12,800  | 98    | 12,000  | 92    | 11,100  | 86    | 10,200  | 82    |                  |       |
| 2608   | 21000               | 36 4                | 26             |   |       |   |       |   |       |   |       | 13,500  | 110   | 12,800  | 105   | 11,900  | 96    |                  |       |

[illegible]



### Single Width

**When Receiving Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances.**

[illegible]

**Double Inlet      No. 8 Extra Heavy Gas Blower—Designs 2, 3, 4 and 5—Con.      Single Width**

**When Receiving Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances**

721

Double  
Inlet

# No. 9 Extra Heavy Gas Blower— Designs 2, 3, 4 and 5

Single  
Width

When Receiving Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed<br>F.P.M. | S.N.D.<br>in inches | S.N.D.<br>H.P. | Volume<br>C.F.M.  | H. P. | Volume<br>C.F.M.  | H. P. | Volume<br>C.F.M.  | H. P. | Volume<br>C.F.M.  | H. P. | Volume<br>C.F.M.  | H. P. | Volume<br>C.F.M.  | H. P. | Volume<br>C.F.M.  | H. P. |
|--------|---------------------|---------------------|----------------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|
|        |                     |                     |                | Static Pressure<br>15" Water<br>8.66 ozs. per<br>sq. inch |       | Static Pressure<br>16" Water<br>9.25 ozs. per<br>sq. inch |       | Static Pressure<br>17" Water<br>9.82 ozs. per<br>sq. inch |       | Static Pressure<br>18" Water<br>10.4 ozs. per<br>sq. inch |       | Static Pressure<br>19" Water<br>11.0 ozs. per<br>sq. inch |       | Static Pressure<br>20" Water<br>11.6 ozs. per<br>sq. inch |       | Static Pressure<br>21" Water<br>12.1 ozs. per<br>sq. inch |       |
| 1240   | 13000               | 13 9                | 11             | 7,500   | 27    |   |       |   |       |   |       |   |       |   |       |   |       |
| 1290   | 13250               | 11 5                | 12             | 10,900  | 37    |   |       |   |       |   |       |   |       |   |       |   |       |
| 1285   | 13500               | 15 0                | 13             | 12,800  | 41    | 9,200   | 31    |   |       |   |       |   |       |   |       |   |       |
| 1310   | 13750               | 15 6                | 13             | 14,300  | 50    | 11,600  | 42    |   |       |   |       |   |       |   |       |   |       |
| 1320   | 13875               | 15 9                | 14             | 15,000  | 51    | 12,700  | 46    | 8,600   | 35    |   |       |   |       |   |       |   |       |
| 1330   | 14000               | 16 2                | 14             | 15,700  | 56    | 13,400  | 49    | 10,500  | 40    |   |       |   |       |   |       |   |       |
| 1355   | 14250               | 16 8                | 15             | 17,100  | 64    | 15,000  | 56    | 12,600  | 48    | 8,490   | 36    |   |       |   |       |   |       |
| 1380   | 14500               | 17 4                | 16             | 18,100  | 70    | 16,600  | 64    | 14,300  | 56    | 11,600  | 47    |   |       |   |       |   |       |
| 1390   | 14625               | 17 7                | 16             | 19,000  | 71    | 17,300  | 68    | 15,250  | 60    | 12,700  | 52    | 8,120   | 38    |   |       |   |       |
| 1405   | 14750               | 18 0                | 16             | 19,500  | 78    | 17,900  | 72    | 15,900  | 64    | 13,700  | 56    | 10,600  | 46    |   |       |   |       |
| 1430   | 15000               | 18 6                | 17             | 20,700  | 84    | 19,000  | 78    | 17,400  | 72    | 15,300  | 61    | 12,800  | 56    |   |       |   |       |
| 1450   | 15250               | 19 2                | 18             | 22,000  | 94    | 20,300  | 86    | 18,700  | 80    | 16,900  | 72    | 14,700  | 64    | 12,500  | 54    |   |       |
| 1465   | 15375               | 19 5                | 19             | 22,600  | 96    | 20,900  | 90    | 19,400  | 84    | 17,500  | 76    | 15,500  | 68    | 13,000  | 58    | 8,850   | 44    |
| 1475   | 15500               | 19 8                | 19             | 23,000  | 100   | 21,500  | 94    | 19,900  | 86    | 18,000  | 80    | 16,200  | 72    | 13,900  | 64    | 10,700  | 52    |
| 1530   | 16000               | 21 1                | 21             | 25,100  | 115   | 23,800  | 110   | 22,200  | 105   | 20,600  | 96    | 19,000  | 88    | 17,300  | 82    | 15,100  | 72    |
| 1575   | 16500               | 22 5                | 23             |   |       | 25,900  | 130   | 24,600  | 120   | 23,100  | 115   | 21,500  | 105   | 20,100  | 100   | 18,300  | 92    |
| 1620   | 17000               | 23 8                | 25             |   |       |   |       | 26,700  | 140   | 25,300  | 130   | 24,000  | 125   | 22,500  | 120   | 21,100  | 110   |
| 1670   | 17500               | 25 3                | 27             |   |       |   |       |   |       | 27,500  | 155   | 26,200  | 145   | 24,900  | 110   | 23,500  | 130   |
| 1720   | 18000               | 26 7                | 29             |   |       |   |       |   |       |   |       | 28,300  | 165   | 27,000  | 160   | 25,800  | 150   |
| 1770   | 18500               | 28 3                | 32             |   |       |   |       |   |       |   |       |   |       | 29,200  | 180   | 28,000  | 175   |

| R.P.M. | Tip Speed<br>F.P.M. | S.N.D.<br>in inches | S.N.D.<br>H.P. | Volume<br>C.F.M.  | H. P. | Volume<br>C.F.M.  | H. P. | Volume<br>C.F.M.  | H. P. | Volume<br>C.F.M.  | H. P. | Volume<br>C.F.M.  | H. P. | Volume<br>C.F.M.  | H. P. | Volume<br>C.F.M.  | H. P. |
|--------|---------------------|---------------------|----------------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|
|        |                     |                     |                | Static Pressure<br>22" Water<br>12.7 ozs. per<br>sq. inch |       | Static Pressure<br>23" Water<br>13.3 ozs. per<br>sq. inch |       | Static Pressure<br>24" Water<br>13.9 ozs. per<br>sq. inch |       | Static Pressure<br>25" Water<br>14.5 ozs. per<br>sq. inch |       | Static Pressure<br>26" Water<br>15.0 ozs. per<br>sq. inch |       | Static Pressure<br>27" Water<br>15.6 ozs. per<br>sq. inch |       | Static Pressure<br>28" Water<br>16.2 ozs. per<br>sq. inch |       |
| 1504   | 15750               | 20 5                | 20             | 9,070   | 47    |   |       |   |       |   |       |   |       |   |       |   |       |
| 1530   | 16000               | 21 1                | 21             | 12,400  | 62    |   |       |   |       |   |       |   |       |   |       |   |       |
| 1540   | 16125               | 21 5                | 21             | 13,700  | 68    | 9,530   | 52    |   |       |   |       |   |       |   |       |   |       |
| 1552   | 16250               | 21 8                | 22             | 14,700  | 72    | 11,700  | 62    |   |       |   |       |   |       |   |       |   |       |
| 1575   | 16500               | 22 5                | 23             | 16,500  | 82    | 14,200  | 74    | 10,700  | 60    |   |       |   |       |   |       |   |       |
| 1600   | 16750               | 23 1                | 24             | 17,800  | 92    | 15,700  | 82    | 13,400  | 74    |   |       |   |       |   |       |   |       |
| 1612   | 16875               | 23 3                | 24             | 18,700  | 98    | 16,800  | 90    | 14,500  | 78    | 11,300  | 64    |   |       |   |       |   |       |
| 1620   | 17000               | 23 9                | 25             | 19,300  | 100   | 17,600  | 94    | 15,500  | 84    | 12,900  | 74    |   |       |   |       |   |       |
| 1636   | 17125               | 24 2                | 25             | 20,000  | 105   | 18,200  | 100   | 16,300  | 90    | 13,900  | 78    | 10,100  | 62    |   |       |   |       |
| 1648   | 17250               | 24 6                | 26             | 20,700  | 110   | 19,200  | 105   | 17,300  | 96    | 15,000  | 84    | 12,200  | 72    |   |       |   |       |
| 1672   | 17500               | 25 3                | 27             | 21,800  | 120   | 20,100  | 115   | 18,700  | 105   | 16,700  | 96    | 14,600  | 86    | 11,400  | 70    |   |       |
| 1696   | 17750               | 26 0                | 28             | 23,200  | 135   | 21,700  | 125   | 20,100  | 115   | 18,300  | 105   | 16,400  | 96    | 14,200  | 86    | 9,800   | 66    |
| 1720   | 18000               | 26 8                | 29             | 24,300  | 145   | 22,900  | 135   | 21,400  | 130   | 19,800  | 120   | 18,200  | 110   | 16,200  | 100   | 13,700  | 86    |
| 1770   | 18500               | 28 2                | 32             | 26,700  | 165   | 25,300  | 155   | 23,000  | 150   | 22,600  | 140   | 21,100  | 130   | 19,400  | 125   | 17,500  | 110   |
| 1815   | 19000               | 29 8                | 35             | 28,900  | 190   | 27,600  | 180   | 26,300  | 175   | 25,100  | 165   | 23,700  | 155   | 22,400  | 150   | 20,900  | 140   |
| 1860   | 19500               | 31 4                | 37             |   |       |   |       | 28,600  | 200   | 27,400  | 190   | 26,100  | 180   | 24,900  | 175   | 23,400  | 165   |
| 1910   | 20000               | 33                  | 40             |   |       |   |       |   |       |   |       |   |       | 27,200  | 200   | 26,100  | 190   |

## Double Inlet **No. 9 Extra Heavy Gas Blower—Designs 2, 3, 4 and 5—Con.** Single Width

**When Receiving Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances**

| R.P.M. | Tip Speed<br>F.P.M. | S.N.D.<br>in inches | S.N.D.<br>H. P. | Volume<br>C.F.M.  | H. P. | Volume<br>C.F.M.  | H. P. | Volume<br>C.F.M.  | H. P. | Volume<br>C.F.M.  | H. P. | Volume<br>C.F.M.  | H. P. | Volume<br>C.F.M.  | H. P. | Volume<br>C.F.M.  | H. P. | Volume<br>C.F.M. | H. P. |
|--------|---------------------|---------------------|-----------------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|------------------|-------|
|        |                     |                     |                 | Static Pressure<br>29" Water<br>16.8 ozs. per<br>sq. inch |       | Static Pressure<br>30" Water<br>17.3 ozs. per<br>sq. inch |       | Static Pressure<br>31" Water<br>17.9 ozs. per<br>sq. inch |       | Static Pressure<br>32" Water<br>18.5 ozs. per<br>sq. inch |       | Static Pressure<br>33" Water<br>19.1 ozs. per<br>sq. inch |       | Static Pressure<br>34" Water<br>19.7 ozs. per<br>sq. inch |       | Static Pressure<br>35" Water<br>20.2 ozs. per<br>sq. inch |       |                  |       |
| 1740   | 18125               | 27.2                | 30              | 11,600  | 78    |   |       |   |       |   |       |   |       |   |       |   |       |                  |       |
| 1750   | 18250               | 27.5                | 31              | 13,200  | 86    |   |       |   |       |   |       |   |       |   |       |   |       |                  |       |
| 1760   | 18375               | 27.8                | 31              | 14,500  | 94    | 9,890   | 72    |   |       |   |       |   |       |   |       |   |       |                  |       |
| 1770   | 18500               | 28.3                | 32              | 15,600  | 105   | 12,600  | 86    |   |       |   |       |   |       |   |       |   |       |                  |       |
| 1780   | 18625               | 28.6                | 33              | 16,600  | 110   | 14,200  | 96    | 8,340   | 70    |   |       |   |       |   |       |   |       |                  |       |
| 1790   | 18750               | 29.0                | 33              | 17,500  | 115   | 15,200  | 105   | 12,000  | 86    |   |       |   |       |   |       |   |       |                  |       |
| 1815   | 19000               | 29.8                | 35              | 19,100  | 130   | 17,300  | 120   | 15,100  | 105   | 11,100  | 84    |   |       |   |       |   |       |                  |       |
| 1840   | 19250               | 30.6                | 36              | 20,700  | 140   | 19,100  | 130   | 17,100  | 120   | 14,800  | 105   | 10,200  | 82    |   |       |   |       |                  |       |
| 1860   | 19500               | 31.4                | 37              | 22,100  | 155   | 20,600  | 115   | 18,900  | 135   | 16,900  | 120   | 14,500  | 110   |   |       |   |       |                  |       |
| 1870   | 19625               | 31.8                | 38              | 22,800  | 160   | 21,300  | 150   | 19,800  | 140   | 17,900  | 130   | 15,700  | 115   | 12,500  | 98    |   |       |                  |       |
| 1885   | 19750               | 32.2                | 39              | 23,400  | 165   | 22,000  | 160   | 20,500  | 145   | 18,700  | 135   | 16,800  | 125   | 14,200  | 110   |   |       |                  |       |
| 1899   | 19875               | 32.6                | 40              | 24,100  | 175   | 22,800  | 165   | 21,200  | 155   | 19,600  | 145   | 17,700  | 130   | 15,500  | 120   | 11,700  | 96    |                  |       |
| 1910   | 20000               | 33.0                | 40              | 24,700  | 180   | 23,500  | 170   | 22,000  | 160   | 20,400  | 150   | 18,500  | 140   | 16,600  | 125   | 13,800  | 110   |                  |       |
| 1950   | 20500               | 34.7                | 43              |   |       | 25,900  | 200   | 24,500  | 190   | 23,200  | 180   | 21,800  | 170   | 20,300  | 160   | 18,600  | 150   |                  |       |
| 2000   | 21000               | 36.4                | 47              |   |       |   |       |   |       |   |       | 24,700  | 200   | 23,300  | 190   | 21,700  | 175   |                  |       |
|        |                     |                     |                 |   |       |   |       |   |       |   |       |   |       |   |       |   |       |                  |       |
|        |                     |                     |                 |   |       |   |       |   |       |   |       |   |       |   |       |   |       |                  |       |
|        |                     |                     |                 |   |       |   |       |   |       |   |       |   |       |   |       |   |       |                  |       |
|        |                     |                     |                 |   |       |   |       |   |       |   |       |   |       |   |       |   |       |                  |       |
|        |                     |                     |                 |   |       |   |       |   |       |   |       |   |       |   |       |   |       |                  |       |
|        |                     |                     |                 |   |       |   |       |   |       |   |       |   |       |   |       |   |       |                  |       |
|        |                     |                     |                 |   |       |   |       |   |       |   |       |   |       |   |       |   |       |                  |       |
|        |                     |                     |                 |   |       |   |       |   |       |   |       |   |       |   |       |   |       |                  |       |
|        |                     |                     |                 |   |       |   |       |   |       |   |       |   |       |   |       |   |       |                  |       |
|        |                     |                     |                 |   |       |   |       |   |       |   |       |   |       |   |       |   |       |                  |       |
|        |                     |                     |                 |   |       |   |       |   |       |   |       |   |       |   |       |   |       |                  |       |
|        |                     |                     |                 |   |       |   |       |   |       |   |       |   |       |   |       |   |       |                  |       |
|        |                     |                     |                 |   |       |   |       |   |       |   |       |   |       |   |       |   |       |                  |       |
|        |                     |                     |                 |   |       |   |       |   |       |   |       |   |       |   |       |   |       |                  |       |
|        |                     |                     |                 |   |       |   |       |   |       |   |       |   |       |   |       |   |       |                  |       |
|        |                     |                     |                 |   |       |   |       |   |       |   |       |   |       |   |       |   |       |                  |       |
|        |                     |                     |                 |   |       |   |       |   |       |   |       |   |       |   |       |   |       |                  |       |
|        |                     |                     |                 |   |       |   |       |   |       |   |       |   |       |   |       |   |       |                  |       |
|        |                     |                     |                 |   |       |   |       |   |       |   |       |   |       |   |       |   |       |                  |       |
|        |                     |                     |                 |   |       |   |       |   |       |   |       |   |       |   |       |   |       |                  |       |
|        |                     |                     |                 |   |       |   |       |   |       |   |       |   |       |   |       |   |       |                  |       |
|        |                     |                     |                 |   |       |   |       |   |       |   |       |   |       |   |       |   |       |                  |       |
|        |                     |                     |                 |   |       |   |       |   |       |   |       |   |       |   |       |   |       |                  |       |
|        |                     |                     |                 |   |       |   |       |   |       |   |       |   |       |   |       |   |       |                  |       |
|        |                     |                     |                 |   |       |   |       |   |       |   |       |   |       |   |       |   |       |                  |       |
|        |                     |                     |                 |   |       |   |       |   |       |   |       |   |       |   |       |   |       |                  |       |
|        |                     |                     |                 |   |       |   |       |   |       |   |       |   |       |   |       |   |       |                  |       |
|        |                     |                     |                 |   |       |   |       |   |       |   |       |   |       |   |       |   |       |                  |       |
|        |                     |                     |                 |   |       |   |       |   |       |   |       |   |       |   |       |   |       |                  |       |
|        |                     |                     |                 |   |       |   |       |   |       |   |       |   |       |   |       |   |       |                  |       |
|        |                     |                     |                 |   |       |   |       |   |       |   |       |   |       |   |       |   |       |                  |       |
|        |                     |                     |                 |   |       |   |       |   |       |   |       |   |       |   |       |   |       |                  |       |
|        |                     |                     |                 |   |       |   |       |   |       |   |       |   |       |   |       |   |       |                  |       |
|        |                     |                     |                 |   |       |   |       |   |       |   |       |   |       |   |       |   |       |                  |       |
|        |                     |                     |                 |   |       |   |       |   |       |   |       |   |       |   |       |   |       |                  |       |
|        |                     |                     |                 |   |       |   |       |   |       |   |       |   |       |   |       |   |       |                  |       |
|        |                     |                     |                 |   |       |   |       |   |       |   |       |   |       |   |       |   |       |                  |       |
|        |                     |                     |                 |   |       |   |       |   |       |   |       |   |       |   |       |   |       |                  |       |
|        |                     |                     |                 |   |       |   |       |   |       |   |       |   |       |   |       |   |       |                  |       |
|        |                     |                     |                 |   |       |   |       |   |       |   |       |   |       |   |       |   |       |                  |       |
|        |                     |                     |                 |   |       |   |       |   |       |   | </    |   |       |   |       |   |       |                  |       |

### Single Width

**When Receiving Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances**

[illegible]

## Double Inlet

### No. 10 Extra Heavy Gas Blower—Designs 2, 3, 4 and 5—Con.

## Single Width

**When Receiving Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances**

[illegible]



**EXTRA HEAVY GAS EXHAUSTERS  
OR BOOSTERS**

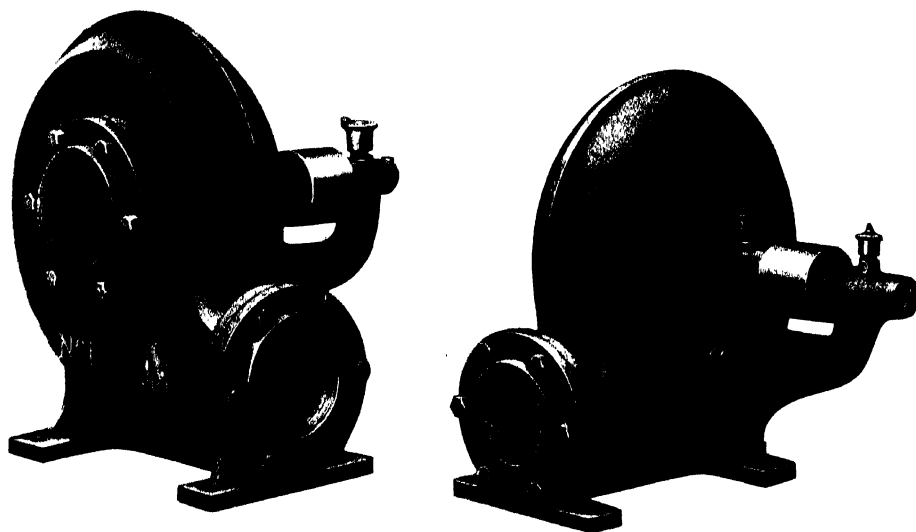
**Cast Iron Fan Type**

**Design 2**

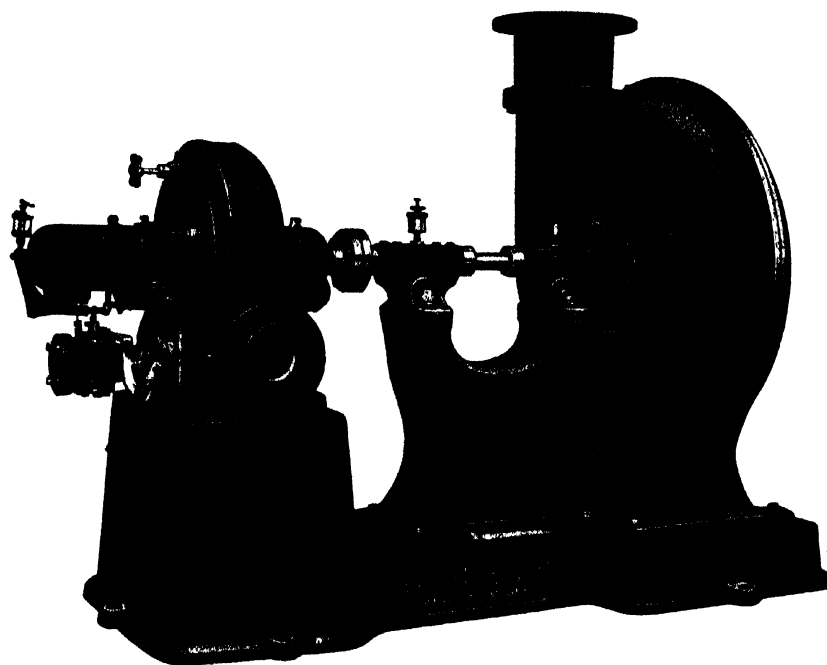
**Dimensions, Capacities, Horse Powers**



## Extra Heavy Gas Exhauster or Booster—Design 2

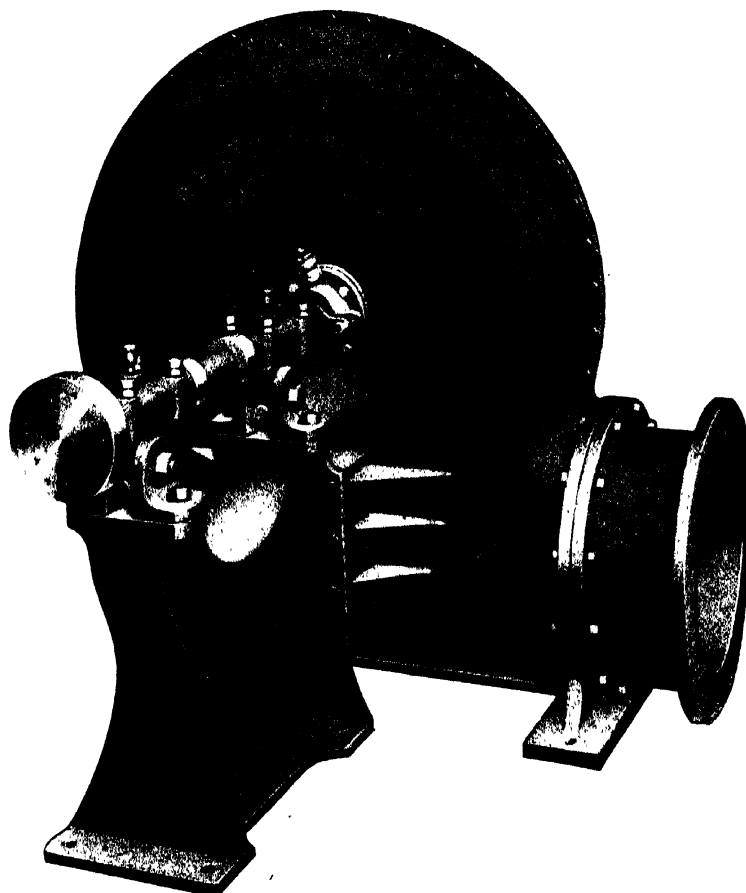


Gas Boosters of Sizes 00, 0 and 1, made as above—Design 2, Form M

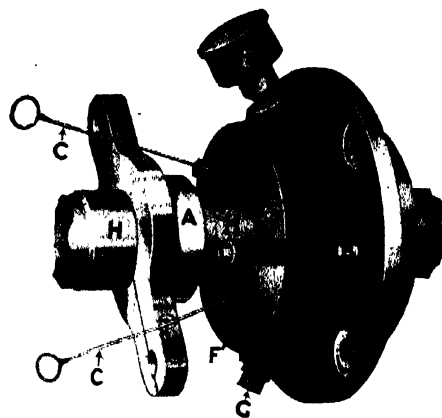


Gas Exhauster—Design 2, Form P

## Extra Heavy Gas Exhauster or Booster—Design 2



No. 7 Gas Booster—Design 2, Form M



Stuffing Box used on  
Sturtevant Gas Exhauster and Booster

## EXTRA HEAVY GAS EXHAUSTER—DESIGN 2, FORM “M”

### SPECIFICATIONS

**General.** There shall be furnished a number ..... Design 2 Form M Sturtevant Fan Type Gas Exhauster, single inlet, single width, ..... hand ..... discharge, full housing. Total height of the exhauster housing shall be approximately ..... inches; width of the exhauster in direction of the shaft approximately ..... inches; length transverse to the shaft approximately ..... inches. Exhauster shall have capacity of ..... cubic feet of gas per minute measured at atmospheric pressure, when handling gas, specific gravity of ..... as, assuming the specific gravity of air as 1, against a total resistance of ..... inches of water gauge, either at the inlet or at the outlet (or at both, taking the sum). Exhauster shall operate at approximately ..... R. P. M., requiring approximately ..... horsepower.

**Housing.** Housing shall be of spiral form constructed of cast iron, made in two halves, flanged and securely bolted together. Casing shall be split on a plane, at right angles to the shaft. Exhauster shall be supported by heavy cast-iron feet cast integral with the fan casing. Outlets shall be ..... inches internal diameter and shall be flanged and drilled to fit standard gas pipe. Inlets also shall be flanged, drilled, and tapped to fit standard gas pipe. Housing shall be provided with foundation pieces which are to be machined and with bearing brackets which shall be securely bolted to the side of the casing.

**Bearings.** The bearings shall be of the chair box type, provided with suitable means for supplying continuous lubrication. They shall be of large diameter and built extra long to give ample bearing support; and shall be lined with best quality babbit metal containing upwards of 85 per cent. tin, bored and scraped to exact size.

**Shaft.** Shaft shall be made from a steel forging carefully turned, and after keyways are cut, shall be accurately ground and polished.

**Stuffing Boxes.** Fan shall be provided with stuffing boxes where the shaft passes through the fan casing on the side opposite the inlet. This stuffing box shall be provided with suitable packing, and shall be so designed that packing may be thoroughly lubricated.

**Wheels.** The blades of the blast wheel shall be made of refined steel plate, flanged and riveted to the side plates, which shall also be made of refined steel plate in one piece carefully cut and pressed to shape. Hub shall be made for sizes 3 and 5 of malleable iron, and for sizes 7, 9, and 11 of cast iron with steel T-arms. Hub shall be accurately bored and fitted to the shaft. Wheel shall be carefully balanced.

# EXTRA HEAVY GAS EXHAUSTER—DESIGN 2 FORM “P”

## SPECIFICATIONS

**General.** There shall be furnished a number ..... Design 2 Form P Sturtevant Fan Type Gas Exhauster, single inlet, single width, ..... hand ..... discharge, full housing. Total height of the fan housing shall be approximately ..... inches; width of the fan in direction of the shaft approximately ..... inches; length transverse to the shaft approximately ..... inches. Exhauster shall have capacity of ..... cubic feet of gas per minute measured at atmospheric pressure, when handling gas, specific gravity of ..... as compared to air at specific gravity 1, against a total resistance of ..... inches of water gauge, either at the inlet or at the outlet (or at both taking the sum). Exhauster shall operate at approximately ..... R. P. M., requiring approximately ..... horsepower.

**Housing.** Housing shall be of spiral form constructed of cast iron, made in two halves, flanged and securely bolted together. Casing shall be split on a plane, at right angles to the shaft. Fan shall be supported by heavy cast-iron feet cast integral with the fan casing. Outlet shall be ..... inches internal diameter, and shall be flanged and drilled to fit standard gas pipe. Inlets also shall be flanged, drilled and tapped to fit standard gas pipe. Housing shall be provided with foundation pieces which are to be machined and to which shall be securely bolted bearing brackets, which are to extend to the same level as the feet and be provided with bolt holes.

**Bearings.** The bearings shall be of the chair box type provided with suitable means for supplying continuous lubrication. They shall be of large diameter and built extra long to give ample bearing support, and shall be lined with best quality babbit metal containing upwards of 85 per cent. tin, bored and scraped to exact size.

**Shaft.** Shaft shall be made from a steel forging carefully turned, and after keyways are cut, shall be accurately ground and polished.

**Stuffing Boxes.** Fan shall be provided with stuffing boxes where the shaft passes through the fan casing on the side opposite the inlet. This stuffing box shall be provided with suitable packing and shall be so designed that packing may be thoroughly lubricated.

**Wheels.** The blades of the blast wheel shall be made of refined steel plate, flanged and riveted to the side plates which shall also be made of refined steel plate in one piece carefully cut and pressed to shape. Hub shall be made in size 4 of malleable iron, and for sizes 6, 8, and 10 of cast iron having cast integral with it and radiating from it steel arms of T-section. Hub shall be accurately bored and fitted to shaft. To the outer end of the arms, the steel blades should be accurately riveted. Wheel shall be carefully balanced.

## Extra Heavy Gas Exhauster, Cast Iron Fan Type—Design 2

### APPROXIMATE WEIGHTS

#### Design 2, Form M, Cast Iron Shells

| Size |      |
|------|------|
| 00   | 55   |
| 0    | 86   |
| 1    | 110  |
| 3    | 300  |
| 5    | 630  |
| 7    | 1500 |
| 9    | 2900 |
| 11   | 4000 |

#### Design 2, Form P, Cast Iron Shells

| Size |      |
|------|------|
| 4    | 450  |
| 6    | 950  |
| 8    | 2000 |
| 10   | 4000 |

## Dimensions Standard Flanged Gas Pipes as recommended by the American Gas Institute

| Nominal Diameter,<br>inches | Actual inside<br>Diameter, inches | Diameter of<br>Flange | Diameter of<br>Bolt Circle | Number of<br>Bolts | Size of<br>Bolts |
|-----------------------------|-----------------------------------|-----------------------|----------------------------|--------------------|------------------|
| 3                           | 3.00                              | 7.625                 | 5.625                      | 4                  | $\frac{1}{2}$    |
| 4                           | 4.00                              | 9.000                 | 7.125                      | 4                  | $\frac{5}{8}$    |
| 6                           | 6.04                              | 11.000                | 9.125                      | 4                  | $\frac{5}{8}$    |
| 8                           | 8.15                              | 13.000                | 11.125                     | 8                  | $\frac{5}{8}$    |
| 10                          | 10.12                             | 16.000                | 13.750                     | 8                  | $\frac{5}{8}$    |
| 12                          | 12.12                             | 18.000                | 15.750                     | 8                  | $\frac{5}{8}$    |
| 16                          | 16.16                             | 22.500                | 20.000                     | 12                 | $\frac{3}{4}$    |
| 20                          | 20.24                             | 27.000                | 24.500                     | 16                 | $\frac{3}{4}$    |
| 24                          | 24.28                             | 31.000                | 28.500                     | 16                 | $\frac{3}{4}$    |
| 30                          | 30.04                             | 37.500                | 35.000                     | 20                 | $\frac{7}{8}$    |

## **Extra Heavy Gas Exhausters or Boosters Cast Iron Fan Type—Design 2**

### **EXLPANATION OF TABLES**

The capacities of these fans are based upon gas weighing .045 lbs. per cubic foot.

Other than the above exception the general explanation of tables at the front of this book applies.

Single  
Inlet

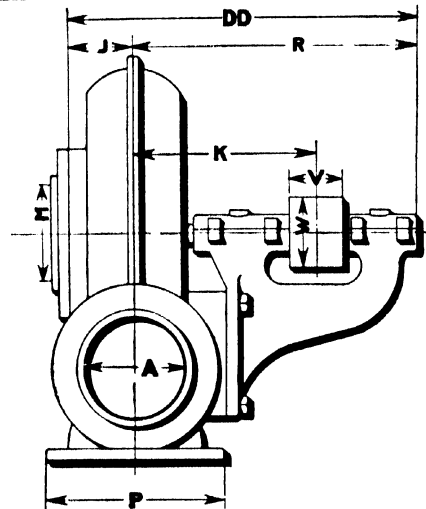
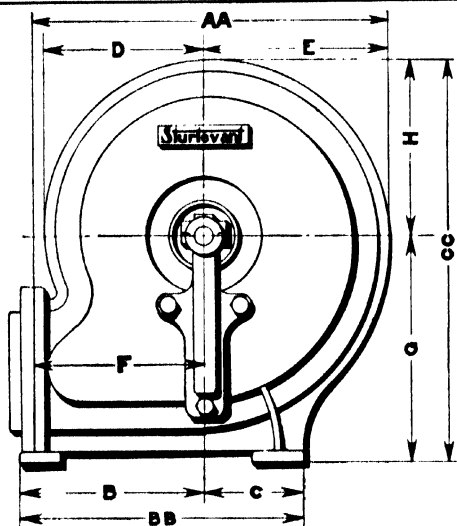
# Extra Heavy Gas Exhauster or Booster—Design 2, Form M

Single  
Width

Full Housing

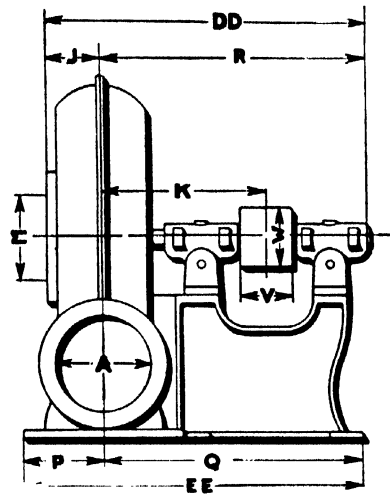
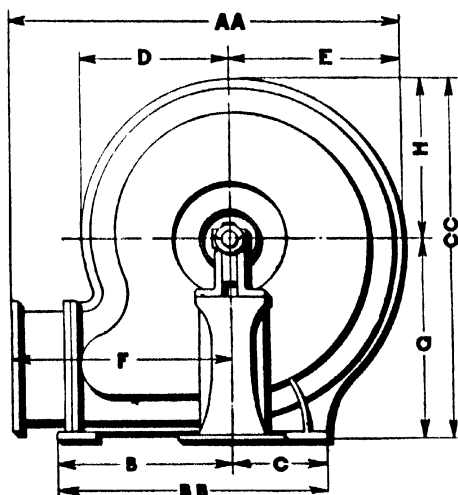
Bottom Horizontal Discharge

Overhung Wheel



| Fan Size | A  | B  | C  | D  | E  | F  | G   | H  | J  | K  | M  | P  | R   | V  | W  | AA  | BB  | CC  | DD  | Wheel Diameter | Shaft Diameter | Anchor Bolts |
|----------|----|----|----|----|----|----|-----|----|----|----|----|----|-----|----|----|-----|-----|-----|-----|----------------|----------------|--------------|
| 00       | 2½ | 7  | 3  | 6¼ | 6¼ | 6¼ | 7¼  | 6¼ | 2¼ | 6  | 2¼ | 6¼ | 9¼  | 1¼ | 2¼ | 13  | 10  | 14¼ | 12  | 8¼             | ¾              | ¼            |
| 0        | 3  | 8¼ | 3½ | 7¼ | 7¼ | 7¼ | 9   | 7¼ | 2½ | 7¼ | 3  | 7¼ | 11¼ | 2¼ | 3  | 15¼ | 12¼ | 16¼ | 14½ | 9½             | 1¼             | ¼            |
| 1        | 4  | 9  | 4¼ | 7½ | 9  | 8¼ | 10¼ | 8¼ | 3  | 8¼ | 4  | 8¼ | 13¾ | 2½ | 3½ | 17¼ | 13¼ | 19¼ | 16¾ | 10½            | 1½             | ¼            |

Inlet and outlet connections on the above gas boosters are provided with cast-iron companion flanges tapped for standard gas pipes of sizes indicated in column "A".



| Fan Size | A  | B   | C   | D   | E   | F   | G   | H   | J  | K   | M  | P   | Q   | R   | V   | W  | AA  | BB  | CC  | DD  | EE  | Wheel Diameter | Shaft Diameter | Anchor Bolts |
|----------|----|-----|-----|-----|-----|-----|-----|-----|----|-----|----|-----|-----|-----|-----|----|-----|-----|-----|-----|-----|----------------|----------------|--------------|
| 3        | 8  | 13  | 7   | 10½ | 12½ | 15½ | 14½ | 11½ | 4¼ | 13½ | 8  | 6   | 22  | 22½ | 4½  | 5  | 28½ | 20  | 26½ | 26½ | 28  | 16             | 1½             | ½            |
| 5        | 12 | 17½ | 9½  | 14½ | 17½ | 22  | 20  | 16½ | 5½ | 16½ | 10 | 8½  | 26½ | 27½ | 5½  | 7  | 39½ | 27  | 36½ | 32½ | 34½ | 21½            | 1½             | ¾            |
| 7        | 16 | 23½ | 12½ | 20  | 24  | 29½ | 28  | 22  | 8½ | 22½ | 16 | 12  | 34½ | 36½ | 10  | 8  | 53½ | 36½ | 50  | 45  | 46½ | 30½            | 1½             | ¾            |
| 9        | 20 | 30½ | 16½ | 26  | 31½ | 37½ | 37  | 28½ | 11 | 27½ | 20 | 15½ | 41  | 43½ | 12½ | 12 | 68½ | 46½ | 65½ | 54½ | 56½ | 40             | 2½             | ¾            |
| 11       | 24 | 34½ | 21½ | 31½ | 37½ | 43½ | 43  | 34½ | 12 | 25½ | 24 | 18½ | 41  | 41½ | 14½ | 14 | 81  | 56½ | 77½ | 53½ | 59½ | 48             | 2½             | 1            |

Flanges of inlet and outlet are made to fit standard gas pipes as recommended by the American Gas Institute. See table on page 732.

Single  
Inlet

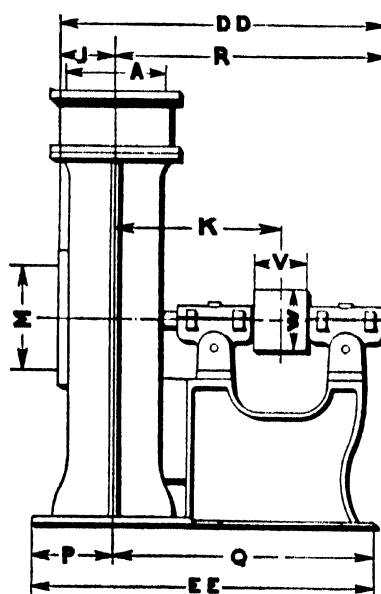
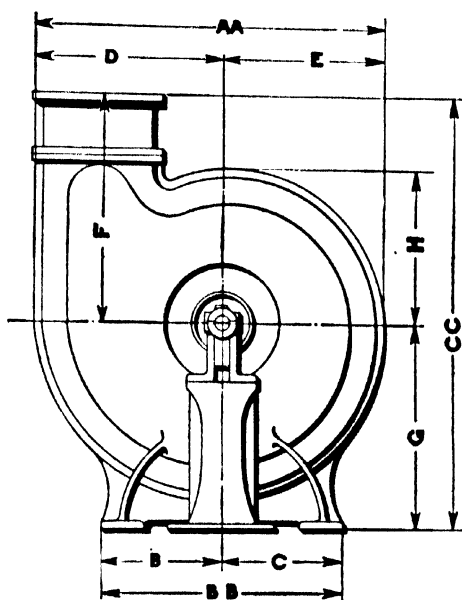
# Extra Heavy Gas Exhauster or Booster—Design 2, Form M

Single  
Width

Full Housing

Up Blast Discharge

Overhung Wheel



| Fan Size | A  | B   | C   | D   | E   | F   | G   | H   | J  | K   | M  | P   | Q   | R   | V   | W  | AA  | BB  | CC  | DD  | EE  | Wheel Diameter | Shaft Diameter | Anchor Bolts |
|----------|----|-----|-----|-----|-----|-----|-----|-----|----|-----|----|-----|-----|-----|-----|----|-----|-----|-----|-----|-----|----------------|----------------|--------------|
| 3        | 8  | 8½  | 8½  | 13½ | 11½ | 15½ | 15½ | 10½ | 4½ | 13½ | 8  | 6   | 22  | 22½ | 4½  | 5  | 25½ | 17  | 31  | 26½ | 28  | 16             | 1½             | ½            |
| 5        | 12 | 12½ | 12½ | 19  | 16½ | 22  | 20½ | 14½ | 5½ | 16½ | 10 | 8½  | 26½ | 27½ | 5½  | 7  | 35½ | 24½ | 42½ | 32½ | 34½ | 21½            | 1½             | ½            |
| 7        | 16 | 16  | 16  | 26  | 22  | 29½ | 27½ | 20  | 8½ | 22½ | 16 | 12  | 34½ | 36½ | 10  | 8  | 48  | 32  | 57½ | 45  | 46½ | 30½            | 1½             | ½            |
| 9        | 20 | 20½ | 20½ | 34½ | 28½ | 37½ | 35½ | 26  | 11 | 27½ | 20 | 15½ | 41  | 43½ | 12½ | 12 | 63  | 40½ | 72½ | 54½ | 56½ | 40             | 2½             | 1            |
| 11       | 24 | 23½ | 23½ | 40½ | 34½ | 43½ | 39½ | 31½ | 12 | 25½ | 24 | 18½ | 39  | 41½ | 14½ | 14 | 75  | 47  | 83½ | 53½ | 57½ | 48             | 2½             | 1            |

Flanges of inlet and outlet are made to fit standard gas pipes as recommended by the American Gas Institute. See table on page 732.



**Single Inlet No. 00 Ex. Heavy Gas Exhauster or Booster—Design 2, Form M Single Width**  
 When Discharging Air at 65° F and Density .045 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S. N. D. in | S. N. D. H. P. | Volume C.F.M. H. P. Static Pressure 1" Water .578 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 2" Water 1.16 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 3" Water 1.73 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 4" Water 2.31 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 5" Water 2.84 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 6" Water 3.47 ozs. per sq. inch |  |  |
|--------|------------------|-------------|----------------|---|---|---|---|---|---|--|--|
| 2310   | 5000             | 1.16        | .02            | 63 .020   |   |   |   |   |   |  |  |
| 2430   | 5250             | 1.27        | .02            | 79 .026   |   |   |   |   |   |  |  |
| 2540   | 5500             | 1.40        | .02            | 92 .032   |   |   |   |   |   |  |  |
| 2690   | 5750             | 1.53        | .02            | 105 .039  |   |   |   |   |   |  |  |
| 2780   | 6000             | 1.66        | .03            | 116 .045  |   |   |   |   |   |  |  |
| 2890   | 6250             | 1.81        | .03            | 126 .053  |   |   |   |   |   |  |  |
| 3010   | 6500             | 1.95        | .04            | 136 .060  | 45 .040   |   |   |   |   |  |  |
| 3120   | 6750             | 2.11        | .04            | 145 .071  | 65 .040   |   |   |   |   |  |  |
| 3240   | 7000             | 2.27        | .04            | 155 .080  | 84 .051   |   |   |   |   |  |  |
| 3360   | 7250             | 2.43        | .05            | 164 .088  | 99 .060   |   |   |   |   |  |  |
| 3470   | 7500             | 2.61        | .05            | 173 .096  | 113 .075  |   |   |   |   |  |  |
| 3580   | 7750             | 2.78        | .06            | 181 .110  | 126 .084  |   |   |   |   |  |  |
| 3700   | 8000             | 2.96        | .07            | 190 .120  | 137 .098  | 56 .070   |   |   |   |  |  |
| 3820   | 8250             | 3.15        | .07            | 198 .135  | 149 .110  | 81 .075   |   |   |   |  |  |
| 3930   | 8500             | 3.34        | .08            | 203 .145  | 160 .125  | 98 .085   |   |   |   |  |  |
| 4050   | 8750             | 3.54        | .09            | 215 .155  | 170 .140  | 115 .100  |   |   |   |  |  |
| 4170   | 9000             | 3.74        | .09            | 224 .175  | 180 .155  | 132 .120  |   |   |   |  |  |
| 4280   | 9250             | 3.96        | .10            | 232 .185  | 190 .170  | 142 .140  | 65 .100   |   |   |  |  |
| 4400   | 9500             | 4.17        | .11            | 241 .205  | 200 .190  | 155 .155  | 91 .110   |   |   |  |  |
| 4510   | 9750             | 4.40        | .12            | 250 .220  | 210 .205  | 167 .180  | 111 .135  |   |   |  |  |
| 4630   | 10000            | 4.62        | .13            | 258 .240  | 220 .220  | 178 .200  | 127 .160  |   |   |  |  |
| 4750   | 10250            | 4.86        | .14            | 265 .260  |   | 190 .220  | 142 .180  | 61 .140   |   |  |  |
| 4860   | 10500            | 5.10        | .15            | 274 .285  |   | 201 .240  | 156 .205  | 92 .140   |   |  |  |
| 4980   | 10750            | 5.34        | .16            | 282 .305  |   | 211 .260  | 169 .225  | 114 .170  |   |  |  |
| 5090   | 11000            | 5.58        | .17            | 290 .330  |   | 222 .285  | 181 .250  | 130 .200  |   |  |  |
| 5200   | 11250            | 5.84        | .18            | 299 .350  |   | 232 .310  | 193 .275  | 146 .285  | 65 .180   |  |  |
| 5320   | 11500            | 6.12        | .20            | 306 .380  |   | 243 .335  | 205 .305  | 161 .255  | 100 .200  |  |  |
| 5440   | 11750            | 6.36        | .21            | 314 .400  |   | 253 .360  | 216 .330  | 174 .282  | 120 .210  |  |  |
| 5550   | 12000            | 6.66        | .22            | 329 .450  |   | 270 .405  | 237 .365  | 197 .335  | 152 .275  |  |  |

**Single Inlet No. 0 Ex. Heavy Gas Exhauster or Booster—Design 2, Form M Single Width**  
 When Discharging Air at 65° F and Density .045 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S. N. D. in | S. N. D. H. P. | Volume C.F.M. H. P. Static Pressure 1" Water .578 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 2" Water 1.16 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 3" Water 1.73 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 4" Water 2.31 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 5" Water 2.84 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 6" Water 3.47 ozs. per sq. inch |  |  |
|--------|------------------|-------------|----------------|---|---|---|---|---|---|--|--|
| 1960   | 5000             | 1.16        | .02            | 91 .028   |   |   |   |   |   |  |  |
| 2050   | 5250             | 1.27        | .03            | 114 .037  |   |   |   |   |   |  |  |
| 2150   | 5500             | 1.40        | .03            | 137 .046  |   |   |   |   |   |  |  |
| 2250   | 5750             | 1.53        | .04            | 151 .055  |   |   |   |   |   |  |  |
| 2350   | 6000             | 1.66        | .04            | 166 .065  |   |   |   |   |   |  |  |
| 2440   | 6250             | 1.81        | .05            | 185 .076  |   |   |   |   |   |  |  |
| 2540   | 6500             | 1.95        | .05            | 195 .088  | 65 .044   |   |   |   |   |  |  |
| 2640   | 6750             | 2.11        | .06            | 209 .100  | 94 .050   |   |   |   |   |  |  |
| 2740   | 7000             | 2.27        | .06            | 223 .115  | 122 .074  |   |   |   |   |  |  |
| 2840   | 7250             | 2.43        | .07            | 236 .125  | 143 .087  |   |   |   |   |  |  |
| 2940   | 7500             | 2.61        | .08            | 249 .140  | 163 .105  |   |   |   |   |  |  |
| 3030   | 7750             | 2.78        | .09            | 261 .155  | 181 .120  |   |   |   |   |  |  |
| 3130   | 8000             | 2.96        | .10            | 273 .170  | 198 .140  | 80 .079   |   |   |   |  |  |
| 3230   | 8250             | 3.15        | .11            | 285 .190  | 215 .160  | 117 .105  |   |   |   |  |  |
| 3330   | 8500             | 3.34        | .12            | 294 .205  | 230 .180  | 142 .125  |   |   |   |  |  |
| 3420   | 8750             | 3.54        | .13            | 310 .225  | 245 .200  | 166 .145  |   |   |   |  |  |
| 3520   | 9000             | 3.74        | .14            | 323 .250  | 260 .225  | 190 .170  |   |   |   |  |  |
| 3620   | 9250             | 3.96        | .15            | 336 .270  | 274 .250  | 205 .205  | 95 .120   |   |   |  |  |
| 3720   | 9500             | 4.17        | .16            | 348 .295  | 289 .275  | 223 .225  | 131 .157  |   |   |  |  |
| 3810   | 9750             | 4.40        | .17            | 360 .320  | 303 .300  | 241 .255  | 160 .195  |   |   |  |  |
| 3910   | 10000            | 4.62        | .19            | 371 .350  | 317 .320  | 257 .285  | 183 .225  |   |   |  |  |
| 4010   | 10250            | 4.86        | .20            | 382 .380  |   | 274 .315  | 205 .255  | 90 .160   |   |  |  |
| 4110   | 10500            | 5.10        | .22            | 394 .410  |   | 290 .345  | 225 .295  | 133 .200  |   |  |  |
| 4210   | 10750            | 5.34        | .23            | 407 .440  |   | 304 .380  | 244 .325  | 164 .245  |   |  |  |
| 4300   | 11000            | 5.58        | .25            | 418 .480  |   | 320 .410  | 261 .360  | 188 .285  |   |  |  |
| 4400   | 11250            | 5.84        | .27            | 430 .510  |   | 334 .445  | 278 .395  | 210 .325  | 95 .200   |  |  |
| 4500   | 11500            | 6.12        | .28            | 441 .540  |   | 350 .480  | 295 .435  | 232 .370  | 145 .250  |  |  |
| 4600   | 11750            | 6.36        | .30            | 453 .580  |   | 364 .520  | 311 .470  | 251 .405  | 173 .300  |  |  |
| 4700   | 12000            | 6.66        | .32            | 474 .650  |   | 390 .580  | 342 .540  | 284 .485  | 220 .400  |  |  |

**Single Inlet** **No. 1 Ex. Heavy Gas Exhauster or Booster—Design 2, Form M** **Single Width**  
 When Discharging Air at 65° F and Density .045 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.M.P. | S.N.D. in inches | S.N.D. H.P. | Volume C.F.M.                                   | H.P.  | Volume C.F.M.                                   | H.P. | Volume C.F.M.                                   | H.P.  | Volume C.F.M.                                   | H.P. | Volume C.F.M.                                   | H.P. | Volume C.F.M.                                   | H.P. | Volume C.F.M. | H.P. |
|--------|------------------|------------------|-------------|---|-------|---|------|---|-------|---|------|---|------|---|------|---------------|------|
|        |                  |                  |             | Static Pressure 1" Water .578 ozs. per sq. inch |       | Static Pressure 2" Water 1.16 ozs. per sq. inch |      | Static Pressure 3" Water 1.73 ozs. per sq. inch |       | Static Pressure 4" Water 2.31 ozs. per sq. inch |      | Static Pressure 5" Water 2.84 ozs. per sq. inch |      | Static Pressure 6" Water 3.47 ozs. per sq. inch |      |               |      |
| 1760   | 5000             | 1.16             | .03         | 162   | .050  |   |      |   |       |   |      |   |      |   |      |               |      |
| 1840   | 5250             | 1.27             | .04         | 203   | .065  |   |      |   |       |   |      |   |      |   |      |               |      |
| 1930   | 5500             | 1.40             | .04         | 235   | .081  |   |      |   |       |   |      |   |      |   |      |               |      |
| 2020   | 5750             | 1.53             | .05         | 268   | .100  |   |      |   |       |   |      |   |      |   |      |               |      |
| 2100   | 6000             | 1.66             | .06         | 295   | .115  |   |      |   |       |   |      |   |      |   |      |               |      |
| 2190   | 6250             | 1.81             | .06         | 322   | .135  |   |      |   |       |   |      |   |      |   |      |               |      |
| 2280   | 6500             | 1.95             | .07         | 347   | .155  | 115   | .080 |   |       |   |      |   |      |   |      |               |      |
| 2370   | 6750             | 2.11             | .08         | 372   | .180  | 167   | .100 |   |       |   |      |   |      |   |      |               |      |
| 2460   | 7000             | 2.27             | .09         | 396   | .205  | 216   | .130 |   |       |   |      |   |      |   |      |               |      |
| 2550   | 7250             | 2.43             | .10         | 419   | .225  | 253   | .155 |   |       |   |      |   |      |   |      |               |      |
| 2630   | 7500             | 2.61             | .11         | 442   | .245  | 280   | .190 |   |       |   |      |   |      |   |      |               |      |
| 2720   | 7750             | 2.78             | .12         | 463   | .275  | 321   | .215 |   |       |   |      |   |      |   |      |               |      |
| 2810   | 8000             | 2.96             | .14         | 485   | .305  | 351   | .250 | 142   | .140  |   |      |   |      |   |      |               |      |
| 2900   | 8250             | 3.15             | .15         | 507   | .335  | 382   | .285 | 208   | .185  |   |      |   |      |   |      |               |      |
| 2980   | 8500             | 3.34             | .17         | 530   | .365  | 410   | .320 | 252   | .220  |   |      |   |      |   |      |               |      |
| 3070   | 8750             | 3.54             | .18         | 550   | .400  | 436   | .355 | 294   | .260  |   |      |   |      |   |      |               |      |
| 3160   | 9000             | 3.74             | .19         | 573   | .440  | 462   | .400 | 337   | .305  |   |      |   |      |   |      |               |      |
| 3250   | 9250             | 3.96             | .21         | 594   | .480  | 487   | .440 | 364   | .365  | 167   | .215 |   |      |   |      |               |      |
| 3330   | 9500             | 4.17             | .23         | 617   | .520  | 512   | .490 | 396   | .400  | 233   | .280 |   |      |   |      |               |      |
| 3420   | 9750             | 4.40             | .25         | 640   | .560  | 538   | .530 | 427   | .455  | 285   | .350 |   |      |   |      |               |      |
| 3510   | 10000            | 4.62             | .27         | 660   | .620  | 563   | .580 | 456   | .510  | 325   | .405 |   |      |   |      |               |      |
| 3600   | 10250            | 4.86             | .29         | 680   | .670  |   |      | 486   | .550  | 365   | .460 | 157   | .285 |   |      |               |      |
| 3690   | 10500            | 5.10             | .31         | 700   | .730  |   |      | 513   | .610  | 400   | .520 | 236   | .360 |   |      |               |      |
| 3780   | 10750            | 5.34             | .33         | 720   | .780  |   |      | 540   | .660  | 430   | .580 | 290   | .435 |   |      |               |      |
| 3860   | 11000            | 5.58             | .35         | 744   | .840  |   |      | 568   | .730  | 460   | .640 | 335   | .510 |   |      |               |      |
| 3950   | 11250            | 5.84             | .38         | 762   | .900  |   |      | 593   | .790  | 495   | .710 | 375   | .580 | 167   | .350 |               |      |
| 4040   | 11500            | 6.12             | .40         | 782   | .950  |   |      | 620   | .860  | 525   | .780 | 415   | .660 | 255   | .445 |               |      |
| 4150   | 11750            | 6.36             | .43         | 805   | 1.050 |   |      | 645   | .950  | 550   | .840 | 445   | .720 | 310   | .530 |               |      |
| 4250   | 12000            | 6.66             | .46         | 842   | 1.150 |   |      | 690   | 1.050 | 605   | .900 | 505   | .860 | 390   | .710 |               |      |

**Single Inlet** **No. 3 Ex. Heavy Gas Exhauster or Booster—Design 2, Form M** **Single Width**  
 When Discharging Gas at 65° F and Density .045 lbs. per cubic foot Against Continuously Maintained Resistances.

| R.P.M. | Tip Speed F.M.P. | S.N.D. in inches | S.N.D. H.P. | Volume C.F.M.                                   | H.P.  | Volume C.F.M.                                   | H.P.  | Volume C.F.M.                                   | H.P. | Volume C.F.M.                                   | H.P. | Volume C.F.M.                                   | H.P. | Volume C.F.M.                                   | H.P. | Volume C.F.M. | H.P. |
|--------|------------------|------------------|-------------|---|-------|---|-------|---|------|---|------|---|------|---|------|---------------|------|
|        |                  |                  |             | Static Pressure 1" Water .578 ozs. per sq. inch |       | Static Pressure 2" Water 1.16 ozs. per sq. inch |       | Static Pressure 3" Water 1.73 ozs. per sq. inch |      | Static Pressure 4" Water 2.31 ozs. per sq. inch |      | Static Pressure 5" Water 2.84 ozs. per sq. inch |      | Static Pressure 6" Water 3.47 ozs. per sq. inch |      |               |      |
| 1193   | 5000             | 1.16             | 0.06        | 571   | 0.175 |   |       |   |      |   |      |   |      |   |      |               |      |
| 1252   | 5250             | 1.27             | 0.07        | 716   | 0.230 |   |       |   |      |   |      |   |      |   |      |               |      |
| 1312   | 5500             | 1.40             | 0.09        | 830   | 0.285 |   |       |   |      |   |      |   |      |   |      |               |      |
| 1371   | 5750             | 1.53             | 0.10        | 945   | 0.350 |   |       |   |      |   |      |   |      |   |      |               |      |
| 1431   | 6000             | 1.66             | 0.11        | 1,040   | 0.405 |   |       |   |      |   |      |   |      |   |      |               |      |
| 1491   | 6250             | 1.81             | 0.13        | 1,140   | 0.475 |   |       |   |      |   |      |   |      |   |      |               |      |
| 1550   | 6500             | 1.95             | 0.14        | 1,230   | 0.55  | 405   | 0.275 |   |      |   |      |   |      |   |      |               |      |
| 1610   | 6750             | 2.11             | 0.16        | 1,310   | 0.64  | 590   | 0.350 |   |      |   |      |   |      |   |      |               |      |
| 1670   | 7000             | 2.27             | 0.18        | 1,390   | 0.72  | 762   | 0.460 |   |      |   |      |   |      |   |      |               |      |
| 1730   | 7250             | 2.43             | 0.20        | 1,480   | 0.80  | 893   | 0.54  |   |      |   |      |   |      |   |      |               |      |
| 1790   | 7500             | 2.61             | 0.22        | 1,560   | 0.87  | 1,020   | 0.67  |   |      |   |      |   |      |   |      |               |      |
| 1850   | 7750             | 2.78             | 0.24        | 1,640   | 0.98  | 1,140   | 0.76  |   |      |   |      |   |      |   |      |               |      |
| 1910   | 8000             | 2.96             | 0.26        | 1,710   | 1.05  | 1,240   | 0.89  | 500   | 0.49 |   |      |   |      |   |      |               |      |
| 1970   | 8250             | 3.15             | 0.29        | 1,790   | 1.20  | 1,350   | 1.00  | 731   | 0.65 |   |      |   |      |   |      |               |      |
| 2030   | 8500             | 3.34             | 0.32        | 1,840   | 1.30  | 1,440   | 1.10  | 896   | 0.78 |   |      |   |      |   |      |               |      |
| 2090   | 8750             | 3.54             | 0.35        | 1,940   | 1.40  | 1,540   | 1.25  | 1,040   | 0.92 |   |      |   |      |   |      |               |      |
| 2150   | 9000             | 3.74             | 0.38        | 2,020   | 1.55  | 1,630   | 1.40  | 1,190   | 1.10 |   |      |   |      |   |      |               |      |
| 2210   | 9250             | 3.96             | 0.41        | 2,100   | 1.70  | 1,710   | 1.55  | 1,280   | 1.30 | 590   | 0.76 |   |      |   |      |               |      |
| 2270   | 9500             | 4.17             | 0.44        | 2,180   | 1.85  | 1,810   | 1.70  | 1,400   | 1.40 | 823   | 0.98 |   |      |   |      |               |      |
| 2330   | 9750             | 4.40             | 0.48        | 2,260   | 2.00  | 1,900   | 1.85  | 1,510   | 1.60 | 1,010   | 1.25 |   |      |   |      |               |      |
| 2385   | 10000            | 4.62             | 0.52        | 2,320   | 2.20  | 1,990   | 2     | 1,610   | 1.80 | 1,150   | 1.45 |   |      |   |      |               |      |
| 2445   | 10250            | 4.86             | 0.56        | 2,400   | 2.35  |   |       | 1,720   | 1.95 | 1,280   | 1.65 | 553   | 1.00 |   |      |               |      |
| 2505   | 10500            | 5.10             | 0.60        | 2,470   | 2.55  |   |       | 1,810   | 2.15 | 1,410   | 1.85 | 832   | 1.25 |   |      |               |      |
| 2570   | 10750            | 5.34             | 0.64        | 2,550   | 2.75  |   |       | 1,910   | 2.35 | 1,530   | 2.00 | 1,030   | 1.55 |   |      |               |      |
| 2622   | 11000            | 5.58             | 0.69        | 2,620   | 3.00  |   |       | 2,000   | 2.60 | 1,670   | 2.25 | 1,180   | 1.80 |   |      |               |      |
| 2685   | 11250            | 5.84             | 0.74        | 2,690   | 3.15  |   |       | 2,100   | 2.80 | 1,740   | 2.50 | 1,320   | 2.00 | 590   | 1.25 |               |      |
| 2742   | 11500            | 6.12             | 0.79        | 2,760   | 3.40  |   |       | 2,190   | 3.00 | 1,850   | 2.75 | 1,450   | 2.30 | 905   | 1.55 |               |      |
| 2802   | 11750            | 6.36             | 0.84        | 2,840   | 3.60  |   |       | 2,280   | 3.25 | 1,950   | 2.95 | 1,570   | 2.55 | 1,000   | 1.85 |               |      |
| 2800   | 12000            | 6.66             | 0.89        | 2,970   | 4.05  |   |       | 2,440   | 3.65 | 2,150   | 3.3  | 1,780   | 3.05 | 1,380   | 2.5  |               |      |



**Single Inlet No. 5 Ex. Hy. Gas Exhauster or Booster—Design 2, Form M—Con. Single Width**

**When Discharging Gas at 65° F and Density .045 lbs. per cubic foot Against Continuously Maintained Resistances Assuming Specific Gravity of Gas .6 and Air 1.**

| R.P.M. | Tip Speed<br>F.P.M. | S.D.<br>in inches | S.D.<br>H.P. | Volume<br>C.F.M.  | H. P. | Volume<br>C.F.M.  | H. P. | Volume<br>C.F.M.  | H. P. | Volume<br>C.F.M.  | H. P. | Volume<br>C.F.M.  | H. P. | Volume<br>C.F.M.  | H. P. | Volume<br>C.F.M.  | H. P. |
|--------|---------------------|-------------------|--------------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|
|        |                     |                   |              | Static Pressure<br>15" Water<br>8.66 ozs. per<br>sq. inch |       | Static Pressure<br>16" Water<br>9.25 ozs. per<br>sq. inch |       | Static Pressure<br>17" Water<br>9.82 ozs. per<br>sq. inch |       | Static Pressure<br>18" Water<br>10.4 ozs. per<br>sq. inch |       | Static Pressure<br>19" Water<br>11.0 ozs. per<br>sq. inch |       | Static Pressure<br>20" Water<br>11.4 ozs. per<br>sq. inch |       | Static Pressure<br>21" Water<br>12.1 ozs. per<br>sq. inch |       |
| 3120   | 17500               | 14.55             | 2.5          | 2,200   | 8.4   |   |       |   |       |   |       |   |       |   |       |   |       |
| 3150   | 17750               | 15.00             | 2.6          | 2,710   | 9.8   |   |       |   |       |   |       |   |       |   |       |   |       |
| 3200   | 18000               | 15.40             | 2.7          | 2,970   | 11.0  | 2,290   | 9.0   |   |       |   |       |   |       |   |       |   |       |
| 3244   | 18250               | 15.80             | 2.8          | 3,220   | 12.0  | 2,690   | 10.5  |   |       |   |       |   |       |   |       |   |       |
| 3290   | 18500               | 16.25             | 2.9          | 3,480   | 13.0  | 2,950   | 11.5  | 2,120   | 8.9   |   |       |   |       |   |       |   |       |
| 3338   | 18750               | 16.70             | 3.0          | 3,660   | 14.0  | 3,270   | 13    | 2,620   | 11.0  |   |       |   |       |   |       |   |       |
| 3380   | 19000               | 17.15             | 3.1          | 3,830   | 14.5  | 3,480   | 14    | 3,000   | 12.5  | 2,120   | 9.6   |   |       |   |       |   |       |
| 3425   | 19250               | 17.61             | 3.3          | 4,030   | 16.0  | 3,700   | 15    | 3,270   | 13.5  | 2,690   | 12.0  |   |       |   |       |   |       |
| 3470   | 19500               | 18.05             | 3.4          | 4,180   | 16.5  | 3,880   | 16    | 3,500   | 14.5  | 3,000   | 13.0  | 2,170   | 10.5  |   |       |   |       |
| 3515   | 19750               | 18.52             | 3.5          | 4,360   | 18    | 4,070   | 17    | 3,730   | 16    | 3,280   | 14.5  | 2,690   | 12.5  |   |       |   |       |
| 3560   | 20000               | 19.02             | 3.7          | 4,510   | 19    | 4,250   | 18    | 3,930   | 17    | 3,550   | 15.5  | 3,070   | 14    | 2,240   | 11    |   |       |



**Single Inlet** **No. 7 Ex. Hy. Gas Exhauster or Booster—Design 2, Form M—Con.** **Single Width**  
 When Discharging Gas at 65° F and Density .045 lbs. per cubic foot Against Continuously Maintained Resistances  
 Assuming Specific Gravity of Gas .6 and Air 1.

| R.P.M. | Tip Speed<br>F.P.M. | S.N.D.<br>in<br>inches | S.N.D.<br>H.P. | Volume<br>C.F.M.  | H. P. | Volume<br>C.F.M.  | H. P. | Volume<br>C.F.M.  | H. P. | Volume<br>C.F.M.  | H. P. | Volume<br>C.F.M.  | H. P. | Volume<br>C.F.M.  | H. P. | Volume<br>C.F.M.  | H. P. |
|--------|---------------------|------------------------|----------------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|
|        |                     |                        |                | Static Pressure<br>15" Water<br>8.66 ozs. per<br>sq. inch |       | Static Pressure<br>16" Water<br>9.25 ozs. per<br>sq. inch |       | Static Pressure<br>17" Water<br>9.82 ozs. per<br>sq. inch |       | Static Pressure<br>18" Water<br>10.4 ozs. per<br>sq. inch |       | Static Pressure<br>19" Water<br>11.0 ozs. per<br>sq. inch |       | Static Pressure<br>20" Water<br>11.6 ozs. per<br>sq. inch |       | Static Pressure<br>21" Water<br>12.2 ozs. per<br>sq. inch |       |
| 2170   | 17500               | 14.55                  | 6.3            | 5,840   | 21.5  |   |       |   |       |   |       |   |       |   |       |   |       |
| 2211   | 17750               | 15.00                  | 6.6            | 6,910   | 25    |   |       |   |       |   |       |   |       |   |       |   |       |
| 2240   | 18000               | 15.40                  | 6.8            | 7,570   | 28    | 5,840   | 23    |   |       |   |       |   |       |   |       |   |       |
| 2260   | 18250               | 15.80                  | 7.1            | 8,200   | 30    | 6,850   | 27    |   |       |   |       |   |       |   |       |   |       |
| 2300   | 18500               | 16.25                  | 7.4            | 8,880   | 33    | 7,530   | 29    | 5,400   | 23    |   |       |   |       |   |       |   |       |
| 2330   | 18750               | 16.70                  | 7.7            | 9,350   | 35    | 8,340   | 33    | 6,670   | 28    |   |       |   |       |   |       |   |       |
| 2360   | 19000               | 17.15                  | 8.0            | 9,770   | 38    | 8,860   | 35    | 7,960   | 32    | 5,420   | 24.5  |   |       |   |       |   |       |
| 2390   | 19250               | 17.61                  | 8.4            | 10,300  | 41    | 9,420   | 38    | 8,350   | 35    | 6,850   | 30    |   |       |   |       |   |       |
| 2420   | 19500               | 18.05                  | 8.7            | 10,700  | 43    | 9,900   | 40    | 8,950   | 38    | 7,650   | 34    | 5,530   | 26    |   |       |   |       |
| 2450   | 19750               | 18.52                  | 9.0            | 11,100  | 45    | 10,400  | 43    | 9,520   | 41    | 8,360   | 37    | 6,860   | 32    |   |       |   |       |
| 2480   | 20000               | 19.02                  | 9.4            | 11,500  | 48    | 10,800  | 46    | 10,000  | 42    | 9,060   | 40    | 7,840   | 36    | 5,700   | 29    |   |       |



**Single Inlet No. 9 Ex. Hy. Gas Exhauster or Booster—Design 2, Form M—Con. Single Width**  
 When Discharging Gas at 65° F and Density .045 lbs. per cubic foot Against Continuously Maintained Resistances  
 Assuming Specific Gravity of Gas .6 and Air 1.

| R.P.M. | Tip Speed<br>F.P.M. | S.N.D.<br>in inches | S.N.D.<br>H.P. | Volume<br>C.F.M.  | H. P. | Volume<br>C.F.M.  | H. P. | Volume<br>C.F.M.  | H. P. | Volume<br>C.F.M.  | H. P. | Volume<br>C.F.M.  | H. P. | Volume<br>C.F.M.  | H. P. | Volume<br>C.F.M.  | H. P. |
|--------|---------------------|---------------------|----------------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|
|        |                     |                     |                | Static Pressure<br>15" Water<br>8.66 ozs. per<br>sq. inch |       | Static Pressure<br>16" Water<br>9.25 ozs. per<br>sq. inch |       | Static Pressure<br>17" Water<br>9.82 ozs. per<br>sq. inch |       | Static Pressure<br>18" Water<br>10.4 ozs. per<br>sq. inch |       | Static Pressure<br>19" Water<br>11.0 ozs. per<br>sq. inch |       | Static Pressure<br>20" Water<br>11.6 ozs. per<br>sq. inch |       | Static Pressure<br>21" Water<br>12.1 ozs. per<br>sq. inch |       |
| 1670   | 17500               | 14.55               | 9 9            | 9,180   | 34    |   |       |   |       |   |       |   |       |   |       |   |       |
| 1695   | 17750               | 15.00               | 10             | 10,900  | 39    |   |       |   |       |   |       |   |       |   |       |   |       |
| 1720   | 18000               | 15.40               | 11             | 11,900  | 44    | 9,180   | 36    |   |       |   |       |   |       |   |       |   |       |
| 1745   | 18250               | 15.80               | 11             | 12,900  | 47    | 10,800  | 42    |   |       |   |       |   |       |   |       |   |       |
| 1770   | 18500               | 16.25               | 12             | 14,000  | 52    | 11,900  | 46    | 8,480   | 36    |   |       |   |       |   |       |   |       |
| 1790   | 18750               | 16.70               | 12             | 14,700  | 56    | 13,100  | 52    | 10,500  | 43    |   |       |   |       |   |       |   |       |
| 1815   | 19000               | 17.15               | 13             | 15,400  | 60    | 13,900  | 56    | 12,100  | 50    | 8,520   | 38    |   |       |   |       |   |       |
| 1840   | 19250               | 17.61               | 13             | 16,200  | 64    | 14,800  | 60    | 13,100  | 54    | 10,800  | 47    |   |       |   |       |   |       |
| 1860   | 19500               | 18.05               | 14             | 16,800  | 68    | 15,600  | 64    | 14,100  | 60    | 12,000  | 52    | 8,700   | 41    |   |       |   |       |
| 1885   | 19750               | 18.52               | 14             | 17,500  | 72    | 16,300  | 68    | 15,000  | 64    | 13,200  | 58    | 10,800  | 50    |   |       |   |       |
| 1910   | 20000               | 19.02               | 15             | 18,100  | 76    | 17,100  | 72    | 15,800  | 68    | 14,300  | 62    | 12,300  | 56    | 8,950   | 45    |   |       |





**Single Inlet No. 11 Ex. Hy. Gas Exhauster or Booster—Design 2, Form M—Con. Single Width**

When Discharging Gas at 65° F and Density .045 lbs. per cubic foot Against Continuously Maintained Resistances  
Assuming Specific Gravity of Gas .6 and Air 1.

| R.P.M. | Tip Speed<br>F.P.M. | S.N.D.<br>in inches | S.N.D.<br>H. P. | Volume<br>C.F.M.  | H. P. | Volume<br>C.F.M.  | H. P. | Volume<br>C.F.M.  | H. P. | Volume<br>C.F.M.  | H. P. | Volume<br>C.F.M.  | H. P. | Volume<br>C.F.M.  | H. P. | Volume<br>C.F.M.  | H. P. |
|--------|---------------------|---------------------|-----------------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|
|        |                     |                     |                 | Static Pressure<br>15" Water<br>8.66 ozs. per<br>sq. inch |       | Static Pressure<br>16" Water<br>9.25 ozs. per<br>sq. inch |       | Static Pressure<br>17" Water<br>9.83 ozs. per<br>sq. inch |       | Static Pressure<br>18" Water<br>10.4 ozs. per<br>sq. inch |       | Static Pressure<br>19" Water<br>11.0 ozs. per<br>sq. inch |       | Static Pressure<br>20" Water<br>11.6 ozs. per<br>sq. inch |       | Static Pressure<br>21" Water<br>12.1 ozs. per<br>sq. inch |       |
| 1390   | 17500               | 14.55               | 1.4             | 13,200  | 48    |   |       |   |       |   |       |   |       |   |       |   |       |
| 1410   | 17750               | 15.00               | 1.5             | 15,600  | 56    |   |       |   |       |   |       |   |       |   |       |   |       |
| 1430   | 18000               | 15.40               | 1.5             | 17,100  | 62    | 13,200  | 52    |   |       |   |       |   |       |   |       |   |       |
| 1450   | 18250               | 15.80               | 1.6             | 18,500  | 68    | 15,500  | 60    |   |       |   |       |   |       |   |       |   |       |
| 1470   | 18500               | 16.25               | 1.7             | 20,000  | 74    | 17,000  | 66    | 12,200  | 52    |   |       |   |       |   |       |   |       |
| 1490   | 18750               | 16.70               | 1.7             | 21,100  | 80    | 18,900  | 74    | 15,100  | 62    |   |       |   |       |   |       |   |       |
| 1510   | 19000               | 17.15               | 1.8             | 22,000  | 84    | 20,000  | 80    | 17,300  | 72    | 12,300  | 56    |   |       |   |       |   |       |
| 1530   | 19250               | 17.61               | 1.9             | 23,200  | 92    | 21,300  | 86    | 18,800  | 78    | 15,500  | 68    |   |       |   |       |   |       |
| 1550   | 19500               | 18.05               | 2.0             | 24,100  | 96    | 22,400  | 92    | 20,200  | 84    | 17,300  | 76    | 12,500  | 60    |   |       |   |       |
| 1570   | 19750               | 18.52               | 2.0             | 25,100  | 105   | 23,400  | 98    | 21,500  | 92    | 18,900  | 82    | 15,500  | 72    |   |       |   |       |
| 1590   | 20000               | 19.02               | 2.1             | 26,000  | 110   | 24,500  | 105   | 22,700  | 98    | 20,500  | 90    | 17,700  | 82    | 12,900  | 64    |   |       |

Single  
Inlet

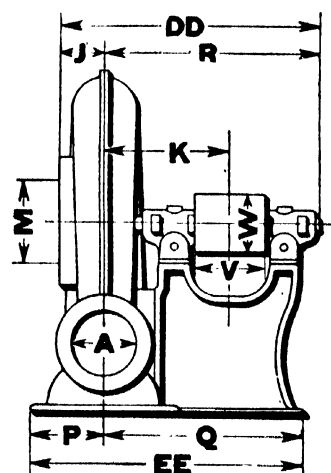
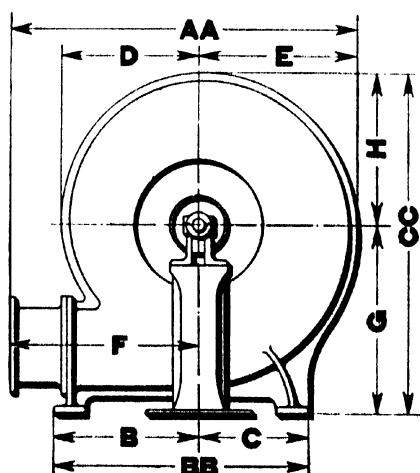
# Extra Heavy Gas Exhauster or Booster—Design 2, Form P

Single  
Width

Full Housing—Cast Iron

Bottom Horizontal Discharge

Overhung Wheel



| Fan Size | A  | B   | C   | D   | E   | F   | G   | H   | J  | K   | M  | P   | Q   | R   | V   | W  | AA  | BB  | CC  | DD  | EE  | Extreme Wheel Diameter | Shaft Diameter | Anchor Bolts |
|----------|----|-----|-----|-----|-----|-----|-----|-----|----|-----|----|-----|-----|-----|-----|----|-----|-----|-----|-----|-----|------------------------|----------------|--------------|
| 4        | 8  | 11½ | 9½  | 13½ | 15  | 18½ | 18½ | 14½ | 4½ | 13½ | 8  | 8   | 22½ | 23  | 5½  | 5  | 33½ | 24½ | 32½ | 27½ | 30½ | 19½                    | 1½             | ½            |
| 6        | 12 | 18½ | 13½ | 18½ | 20½ | 25½ | 25½ | 19½ | 5½ | 18½ | 12 | 9½  | 29½ | 30½ | 6½  | 7  | 46½ | 32½ | 45½ | 36½ | 39½ | 26                     | 1½             | ½            |
| 8        | 16 | 25½ | 19½ | 24½ | 27½ | 33½ | 33  | 26  | 7½ | 22  | 16 | 13½ | 35½ | 37½ | 12½ | 9  | 61  | 45  | 59  | 45  | 48½ | 36                     | 2½             | ½            |
| 10       | 20 | 34½ | 25½ | 32½ | 37½ | 43½ | 45½ | 35  | 9½ | 24½ | 20 | 18  | 40½ | 41½ | 14  | 12 | 80½ | 60½ | 80½ | 50½ | 58½ | 48                     | 2½             | 1            |

Flanges of inlet and outlet are made to fit standard gas pipes as recommended by the American Gas Institute. See page 732.

Single  
Inlet

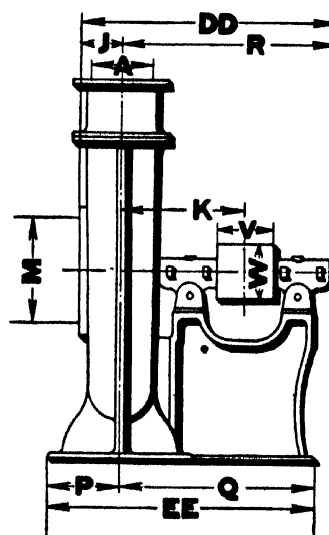
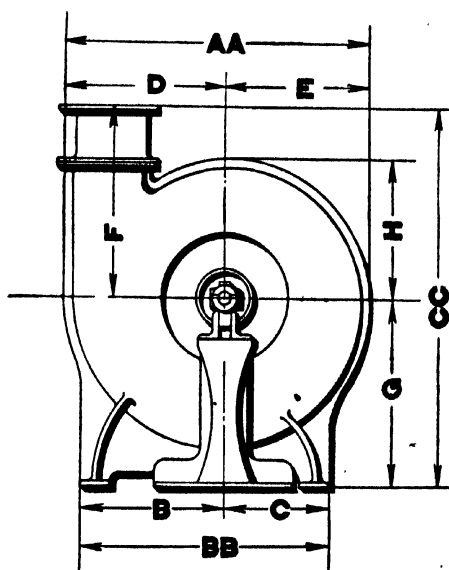
# Extra Heavy Gas Exhauster or Booster—Design 2, Form P

Single  
Width

Full Housing—Cast Iron

Up Blast Discharge

Overhung Wheel



| Fan Size | A  | B   | C   | D   | E   | F   | G   | H   | J  | K   | M  | P   | Q   | R   | V   | W  | AA  | BB  | CC  | DD  | EE  | Extreme Wheel Diameter | Shaft Diameter | Anchor Bolts |
|----------|----|-----|-----|-----|-----|-----|-----|-----|----|-----|----|-----|-----|-----|-----|----|-----|-----|-----|-----|-----|------------------------|----------------|--------------|
| 4        | 8  | 12  | 10  | 15½ | 14½ | 18½ | 17  | 13½ | 4½ | 13½ | 8  | 8   | 22½ | 23  | 5½  | 5  | 30  | 22  | 35½ | 27½ | 30½ | 19½                    | 1½             | ½            |
| 6        | 12 | 17½ | 12½ | 21½ | 19½ | 25½ | 24½ | 18½ | 5½ | 18½ | 12 | 9½  | 29½ | 30½ | 6½  | 7  | 41½ | 29½ | 49½ | 36½ | 39½ | 26                     | 1½             | ½            |
| 8        | 16 | 20  | 18½ | 29  | 26  | 33½ | 31  | 24½ | 7½ | 22  | 16 | 13½ | 35½ | 37½ | 12½ | 9  | 55  | 38½ | 64½ | 45  | 48½ | 36                     | 2½             | ¾            |
| 10       | 20 | 27½ | 27½ | 39½ | 35  | 43½ | 43  | 32½ | 9½ | 24½ | 20 | 18  | 40½ | 41½ | 14  | 12 | 74½ | 54½ | 86½ | 50½ | 58½ | 48                     | 2½             | 1            |

Flanges of inlet and outlet are made to fit standard gas pipes as recommended by the American Gas Institute. See page 732.

# Single Inlet No. 4 Ex. Heavy Gas Exhauster or Booster—Design 2, Form P Single Width

When Discharging Gas at 65° F and Density .045 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed<br>F.P.M. | S.N.D.<br>in<br>inches | S.N.D.<br>H.P. | Volume<br>C.F.M.  | H. P. | Volume<br>C.F.M.  | H. P. | Volume<br>C.F.M.  | H. P. | Volume<br>C.F.M.  | H. P. | Volume<br>C.F.M.  | H. P. | Volume<br>C.F.M.  | H. P. | Volume<br>C.F.M.  | H. P. |
|--------|---------------------|------------------------|----------------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|
|        |                     |                        |                | Static Pressure<br>1" Water<br>.578 ozs. per<br>sq. inch  |       | Static Pressure<br>2" Water<br>1.16 ozs. per<br>sq. inch  |       | Static Pressure<br>3" Water<br>1.73 ozs. per<br>sq. inch  |       | Static Pressure<br>4" Water<br>2.31 ozs. per<br>sq. inch  |       | Static Pressure<br>5" Water<br>2.89 ozs. per<br>sq. inch  |       | Static Pressure<br>6" Water<br>3.47 ozs. per<br>sq. inch  |       | Static Pressure<br>7" Water<br>4.05 ozs. per<br>sq. inch  |       |
| 980    | 5000                | 1 12                   | 0.065          | 600   | 0.175 |   |       |   |       |   |       |   |       |   |       |   |       |
| 1030   | 5250                | 1 23                   | 0.075          | 717   | 0.205 |   |       |   |       |   |       |   |       |   |       |   |       |
| 1080   | 5500                | 1 35                   | 0.085          | 819   | 0.230 |   |       |   |       |   |       |   |       |   |       |   |       |
| 1125   | 5750                | 1 48                   | 0.098          | 918   | 0.280 |   |       |   |       |   |       |   |       |   |       |   |       |
| 1175   | 6000                | 1 61                   | 0.110          | 1,010   | 0.355 |   |       |   |       |   |       |   |       |   |       |   |       |
| 1225   | 6250                | 1 75                   | 0.125          | 1,090   | 0.445 |   |       |   |       |   |       |   |       |   |       |   |       |
| 1270   | 6500                | 1 89                   | 0.140          | 1,170   | 0.51  | 515   | 0.27  |   |       |   |       |   |       |   |       |   |       |
| 1320   | 6750                | 2 08                   | 0.160          | 1,290   | 0.58  | 719   | 0.34  |   |       |   |       |   |       |   |       |   |       |
| 1370   | 7000                | 2 19                   | 0.175          | 1,330   | 0.68  | 825   | 0.45  |   |       |   |       |   |       |   |       |   |       |
| 1420   | 7250                | 2 35                   | 0.195          | 1,410   | 0.81  | 939   | 0.53  |   |       |   |       |   |       |   |       |   |       |
| 1470   | 7500                | 2 51                   | 0.215          | 1,480   | 0.91  | 1,050   | 0.67  |   |       |   |       |   |       |   |       |   |       |
| 1520   | 7750                | 2 68                   | 0.240          | 1,550   | 1.00  | 1,150   | 0.79  |   |       |   |       |   |       |   |       |   |       |
| 1505   | 8000                | 2 85                   | 0.265          | 1,630   | 1.10  | 1,240   | 0.9   | 650   | 0.52  |   |       |   |       |   |       |   |       |
| 1620   | 8250                | 3 03                   | 0.290          | 1,700   | 1.25  | 1,340   | 1     | 815   | 0.67  |   |       |   |       |   |       |   |       |
| 1660   | 8500                | 3 22                   | 0.315          | 1,760   | 1.40  |   |       | 960   | 0.81  |   |       |   |       |   |       |   |       |
| 1710   | 8750                | 3 42                   | 0.345          | 1,830   | 1.50  |   |       | 1,090   | 0.96  |   |       |   |       |   |       |   |       |
| 1760   | 9000                | 3 61                   | 0.375          | 1,900   | 1.65  |   |       | 1,200   | 1.10  |   |       |   |       |   |       |   |       |
| 1810   | 9250                | 3 82                   | 0.405          | 1,980   | 1.80  |   |       | 1,310   | 1.25  | 786   | 0.83  |   |       |   |       |   |       |
| 1860   | 9500                | 4 03                   | 0.440          | 2,040   | 1.95  |   |       | 1,410   | 1.45  | 951   | 1.00  |   |       |   |       |   |       |
| 1910   | 9750                | 4 28                   | 0.475          | 2,110   | 2.15  |   |       | 1,510   | 1.6   | 1,010   | 1.25  |   |       |   |       |   |       |
| 1960   | 10000               | 4 46                   | 0.51           | 2,180   | 2.30  |   |       | 1,600   | 1.8   | 1,220   | 1.40  |   |       |   |       |   |       |
| 2010   | 10250               | 4 69                   | 0.55           | 2,240   | 2.45  |   |       |   |       | 1,330   | 1.60  | 792   | 1.05  |   |       |   |       |
| 2060   | 10500               | 4 93                   | 0.59           | 2,310   | 2.65  |   |       |   |       | 1,450   | 1.80  | 979   | 1.25  |   |       |   |       |
| 2100   | 10750               | 5 15                   | 0.64           | 2,370   | 2.85  |   |       |   |       | 1,550   | 2.05  | 1,130   | 1.50  |   |       |   |       |
| 2100   | 11000               | 5 40                   | 0.68           | 2,430   | 3.05  |   |       |   |       | 1,640   | 2.30  | 1,270   | 1.75  |   |       |   |       |
| 2200   | 11250               | 5 64                   | 0.73           | 2,500   | 3.25  |   |       |   |       | 1,740   | 2.50  | 1,390   | 2.00  | 885   | 1.4   |   |       |
| 2250   | 11500               | 5 90                   | 0.78           | 2,570   | 3.50  |   |       |   |       | 1,830   | 2.75  | 1,510   | 2.25  | 1,070   | 1.7   |   |       |
| 2300   | 11750               | 6 16                   | 0.83           | 2,630   | 3.75  |   |       |   |       | 1,920   | 3     | 1,610   | 2.50  | 1,230   | 2.0   |   |       |
| 2350   | 12000               | 6 43                   | 0.89           | 2,690   | 4.05  |   |       |   |       |   |       | 1,710   | 2.75  | 1,350   | 2.3   |   |       |
| 2450   | 12500               | 6 98                   | 1.00           | 2,820   | 4.5   |   |       |   |       |   |       | 1,910   | 3.40  | 1,610   | 2.9   | 1,210   | 2.30  |
| 2540   | 13000               | 7 54                   | 1.15           | 2,950   | 5.2   |   |       |   |       |   |       | 2,100   | 4     | 1,810   | 3.5   | 1,480   | 2.95  |
| 2640   | 13500               | 8 13                   | 1.25           | 3,070   | 5.8   |   |       |   |       |   |       |   |       | 2,020   | 4.2   | 1,710   | 3.65  |
| 2740   | 14000               | 8 75                   | 1.40           | 3,200   | 6.5   |   |       |   |       |   |       |   |       | 2,210   | 4.9   | 1,930   | 4.35  |
| 2840   | 14500               | 9 36                   | 1.55           | 3,330   | 7.4   |   |       |   |       |   |       |   |       |   |       | 2,140   | 5.2   |
| 2940   | 15000               | 10 0                   | 1.75           | 3,400   | 7.8   |   |       |   |       |   |       |   |       |   |       | 2,340   | 6.0   |
| 3040   | 15500               | 10 7                   | 1.9            | 3,580   | 9.4   |   |       |   |       |   |       |   |       |   |       | 2,540   | 6.9   |
| R.P.M. | Tip Speed<br>F.P.M. | S.N.D.<br>in<br>inches | S.N.D.<br>H.P. | Static Pressure<br>8" Water<br>4.63 ozs. per<br>sq. inch  |       | Static Pressure<br>9" Water<br>5.2 ozs. per<br>sq. inch   |       | Static Pressure<br>10" Water<br>5.78 ozs. per<br>sq. inch |       | Static Pressure<br>11" Water<br>6.38 ozs. per<br>sq. inch |       | Static Pressure<br>12" Water<br>6.93 ozs. per<br>sq. inch |       | Static Pressure<br>13" Water<br>7.51 ozs. per<br>sq. inch |       | Static Pressure<br>14" Water<br>8.09 ozs. per<br>sq. inch |       |
| 2540   | 13000               | 7.54                   | 1.10           | 1,030   | 2.20  |   |       |   |       |   |       |   |       |   |       |   |       |
| 2640   | 13500               | 8.13                   | 1.25           | 1,370   | 2.95  |   |       |   |       |   |       |   |       |   |       |   |       |
| 2740   | 14000               | 8.75                   | 1.40           | 1,640   | 3.7   | 1,180   | 2.85  |   |       |   |       |   |       |   |       |   |       |
| 2840   | 14500               | 9.36                   | 1.55           | 1,860   | 4.5   | 1,540   | 3.8   |   |       |   |       |   |       |   |       |   |       |
| 2940   | 15000               | 10.0                   | 1.75           | 2,080   | 5.3   | 1,810   | 4.7   | 1,480   | 4.00  |   |       |   |       |   |       |   |       |
| 3040   | 15500               | 10.7                   | 1.90           | 2,290   | 6.3   | 2,040   | 5.7   | 1,760   | 4.95  | 1,420   | 4.2   |   |       |   |       |   |       |
| 3130   | 16000               | 11.4                   | 2.10           | 2,490   | 7.2   | 2,250   | 6.6   | 2,000   | 5.9   | 1,720   | 5.1   | 1,330   | 4.25  |   |       |   |       |
| 3240   | 16500               | 12.2                   | 2.30           | 2,680   | 8.2   | 2,440   | 7.7   | 2,220   | 6.9   | 1,980   | 6.1   | 1,660   | 5.4   |   |       |   |       |
| 3320   | 17000               | 12.9                   | 2.50           |   |       | 2,650   | 8.7   | 2,430   | 8.0   | 2,200   | 7.2   | 1,930   | 6.5   | 1,640   | 5.7   |   |       |
| 3420   | 17500               | 13.7                   | 2.75           |   |       | 2,840   | 9.8   | 2,630   | 9.1   | 2,410   | 8.4   | 2,170   | 7.6   | 1,930   | 6.8   | 1,600   | 6.0   |
| 3520   | 18000               | 14.5                   | 3.00           |   |       |   |       | 2,830   | 10.5  | 2,610   | 9.6   | 2,380   | 8.9   | 2,170   | 8.1   | 1,900   | 7.3   |
| 3620   | 18500               | 15.3                   | 3.25           |   |       |   |       | 3,020   | 11.5  | 2,820   | 11.0  | 2,600   | 10.0  | 2,390   | 9.4   | 2,150   | 8.5   |
| 3720   | 19000               | 16.2                   | 3.50           |   |       |   |       |   |       | 3,010   | 12.5  | 2,800   | 11.5  | 2,610   | 11.0  | 2,380   | 9.9   |
| 3820   | 19500               | 17.0                   | 3.80           |   |       |   |       |   |       | 3,200   | 13.5  | 3,000   | 13.0  | 2,820   | 12.0  | 2,600   | 11.5  |
| 3920   | 20000               | 17.9                   | 4.1            |   |       |   |       |   |       |   |       | 3,200   | 14.5  | 3,020   | 13.5  | 2,810   | 13    |
| R.P.M. | Tip Speed<br>F.P.M. | S.N.D.<br>in<br>inches | S.N.D.<br>H.P. | Static Pressure<br>15" Water<br>5.65 ozs. per<br>sq. inch |       | Static Pressure<br>16" Water<br>6.25 ozs. per<br>sq. inch |       | Static Pressure<br>17" Water<br>6.82 ozs. per<br>sq. inch |       | Static Pressure<br>18" Water<br>7.44 ozs. per<br>sq. inch |       | Static Pressure<br>19" Water<br>8.00 ozs. per<br>sq. inch |       | Static Pressure<br>20" Water<br>8.60 ozs. per<br>sq. inch |       | Static Pressure<br>20" Water<br>8.60 ozs. per<br>sq. inch |       |
| 3520   | 18000               | 14.5                   | 3.00           | 1,560   | 6.3   |   |       |   |       |   |       |   |       |   |       |   |       |
| 3620   | 18500               | 15.3                   | 3.25           | 1,910   | 7.8   | 1,550   | 6.6   |   |       |   |       |   |       |   |       |   |       |
| 3720   | 19000               | 16.2                   | 3.5            | 2,180   | 9.2   | 1,890   | 8.2   | 1,570   | 7.1   |   |       |   |       |   |       |   |       |
| 3820   | 19500               | 17.0                   | 3.8            | 2,410   | 10.5  | 2,170   | 9.7   | 1,910   | 8.7   | 1,590   | 7.6   |   |       |   |       |   |       |
| 3920   | 20000               | 17.9                   | 4.1            | 2,630   | 12    | 2,410   | 11    | 2,180   | 10.5  | 1,630   | 9.3   |   |       |   |       |   |       |









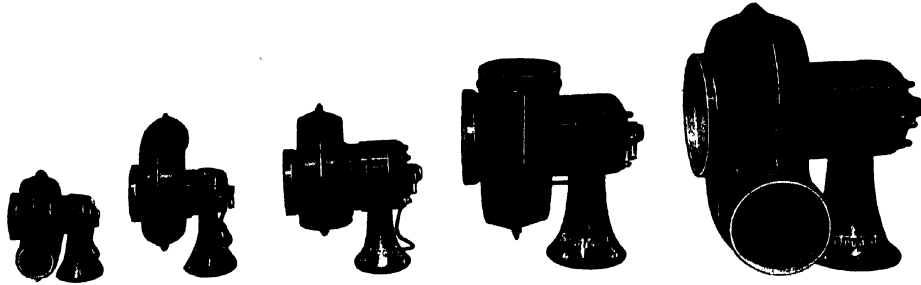


# **READY-TO-RUN VENTILATING SETS**

## **Portable**

**Dimensions, Capacities, Horse Powers**

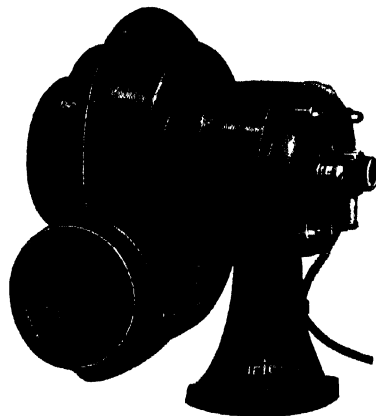
## Ready-to-Run Ventilating Sets



Five Standard Sizes Ready-to-Run Ventilating Sets  
Showing Different Discharges.



Size A Ready-to-Run Ventilating Set Wheel.



Motor View, Ready-to-Run  
Ventilating Set.



Inlet View, Ready-to-Run  
Ventilating Set.

# READY-TO-RUN VENTILATING SET

## SPECIFICATIONS

**General.** There shall be furnished a No..... Sturtevant Ready-to-Run Ventilating Set. It shall be made single inlet, single width, and be reversible so that any discharge can be secured. The wheel shall be not less than.....inches diameter, .....inches wide. The outlet shall be.....inches diameter, and the inlet..... inches diameter. The total height of the fan housing shall be.....inches, the width in direction of the shaft .....inches, and the length transverse to shaft..... inches. The fan shall have a capacity of.....cubic feet per minute against a resistance of.....inches water gauge either at the inlet or at the outlet (or at both, taking the sum) and shall operate at approximately .....R. P. M., requiring approximately..... B. H. P.

**Housing.** The housing shall be of pressed steel and supported from the motor housing.

**Wheel.** The blades of the wheel shall be spooned with spherical depressions to efficiently handle the air. The wheel shall be overhung on the extended motor shaft.

**Motor.** The electric motor shall be of the Sturtevant UV Type, and shall meet all the requirements of the American Institute of Electrical Engineers. The motor shall be supported by a cast-iron base of sufficient stability, so that fan will stand upright without other support.

## **Ready-To-Run Ventilating Sets**

### **EXPLANATION OF TABLES**

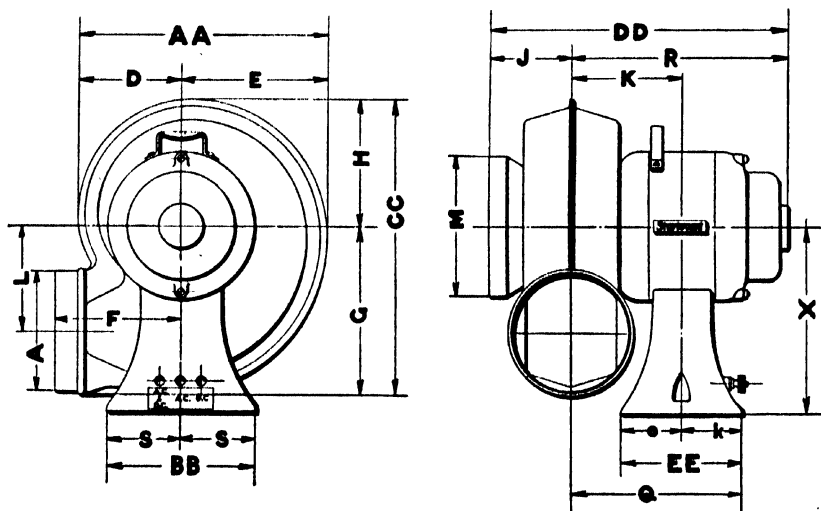
The general explanation of tables given at the front of this book applies without exception to the following tables.

## **Ready-to-Run Ventilating Set**

### **APPROXIMATE WEIGHTS**

| <b>Size</b> | <b>Weight</b> |
|-------------|---------------|
| <b>A</b>    | 13            |
| <b>B</b>    | 25            |
| <b>C</b>    | 32            |
| <b>D</b>    | 88            |
| <b>E</b>    | 120           |

# Ready-to-Run Ventilating Sets



SIZE A

| Size of Motor | Rev. Per Minute      | Dia. of Shaft | Extreme Dia. of Wheel | A              | D              | E              | F              | G              | H | J              | K              | L              | M              | Q              | R              | S              | X              | AA | BB             | CC             | DD             | EE | c | k |
|---------------|----------------------|---------------|-----------------------|----------------|----------------|----------------|----------------|----------------|---|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----|----------------|----------------|----------------|----|---|---|
| 1-U           | 1150<br>1750<br>3400 | $\frac{1}{2}$ | $4\frac{1}{8}$        | $3\frac{1}{8}$ | $3\frac{1}{2}$ | $4\frac{1}{2}$ | $3\frac{1}{2}$ | $5\frac{1}{2}$ | 4 | $2\frac{1}{2}$ | $3\frac{1}{2}$ | $3\frac{1}{2}$ | $4\frac{1}{2}$ | $5\frac{1}{2}$ | $6\frac{1}{2}$ | $2\frac{1}{2}$ | $5\frac{1}{2}$ | 8  | $5\frac{1}{2}$ | $9\frac{1}{2}$ | $8\frac{1}{2}$ | 4  | 2 | 2 |

SIZE B

| Size of Motor | Rev. Per Minute      | Dia. of Shaft | Extreme Dia. of Wheel | A              | D              | E              | F              | G              | H              | J              | K | L              | M              | Q              | R              | S | X              | AA             | BB | CC              | DD              | EE             | c              | k              |
|---------------|----------------------|---------------|-----------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|---|----------------|----------------|----------------|----------------|---|----------------|----------------|----|-----------------|-----------------|----------------|----------------|----------------|
| 1-U<br>3-U    | 1150<br>1750<br>3400 | $\frac{1}{2}$ | $4\frac{3}{8}$        | $3\frac{1}{2}$ | $4\frac{1}{2}$ | $5\frac{1}{2}$ | $1\frac{1}{2}$ | $6\frac{1}{2}$ | $4\frac{1}{2}$ | $2\frac{1}{2}$ | 5 | $4\frac{3}{4}$ | $5\frac{1}{2}$ | $7\frac{1}{2}$ | $8\frac{3}{4}$ | 3 | $7\frac{1}{2}$ | $9\frac{1}{2}$ | 6  | $11\frac{1}{2}$ | $11\frac{1}{2}$ | $4\frac{1}{2}$ | $2\frac{3}{8}$ | $2\frac{3}{8}$ |

SIZE C

| Size of Motor | Rev. Per Minute | Dia. of Shaft | Extreme Dia. of Wheel | A              | D              | E              | F              | G              | H              | J              | K              | L              | M              | Q              | R              | S              | X              | AA              | BB | CC | DD              | EE | c              | k              |
|---------------|-----------------|---------------|-----------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-----------------|----|----|-----------------|----|----------------|----------------|
| 3-U           | 1150<br>1750    | $\frac{1}{2}$ | 6                     | $5\frac{1}{8}$ | $4\frac{1}{2}$ | $6\frac{1}{2}$ | $5\frac{1}{2}$ | $7\frac{1}{2}$ | $5\frac{1}{2}$ | $3\frac{1}{8}$ | $5\frac{1}{2}$ | $4\frac{1}{8}$ | $6\frac{1}{2}$ | $7\frac{1}{2}$ | $9\frac{1}{2}$ | $3\frac{1}{2}$ | $8\frac{1}{2}$ | $11\frac{1}{2}$ | 7  | 30 | $12\frac{1}{2}$ | 5  | $2\frac{1}{2}$ | $2\frac{1}{2}$ |

SIZE D

| Size of Motor                               | Rev. Per Minute     | Dia. of Shaft | Extreme Dia. of Wheel | A              | D              | E              | F              | G               | H              | J | K              | L              | M              | Q               | R               | S              | X               | AA              | BB | CC              | DD              | EE             | c              | k              |
|---|---------------------|---------------|-----------------------|----------------|----------------|----------------|----------------|-----------------|----------------|---|----------------|----------------|----------------|-----------------|-----------------|----------------|-----------------|-----------------|----|-----------------|-----------------|----------------|----------------|----------------|
| 3-U<br>$\frac{1}{2}$ -B<br>$\frac{1}{2}$ -B | 850<br>1150<br>1750 | $\frac{1}{2}$ | $8\frac{1}{8}$        | $6\frac{1}{2}$ | $6\frac{1}{2}$ | $9\frac{1}{2}$ | $7\frac{1}{2}$ | $10\frac{1}{2}$ | $7\frac{1}{2}$ | 5 | $7\frac{1}{2}$ | $6\frac{1}{2}$ | $8\frac{1}{2}$ | $11\frac{1}{2}$ | $13\frac{1}{2}$ | $4\frac{1}{2}$ | $10\frac{1}{2}$ | $15\frac{1}{2}$ | 9  | $18\frac{1}{2}$ | $18\frac{1}{2}$ | $7\frac{1}{2}$ | $3\frac{1}{2}$ | $3\frac{1}{2}$ |

SIZE E

| Size of Motor                               | Rev. Per Minute    | Dia. of Shaft | Extreme Dia. of Wheel | A              | D              | E               | F               | G               | H  | J | K              | L              | M               | Q               | R  | S              | X               | AA | BB | CC              | DD | EE | c              | k              |
|---|--------------------|---------------|-----------------------|----------------|----------------|-----------------|-----------------|-----------------|----|---|----------------|----------------|-----------------|-----------------|----|----------------|-----------------|----|----|-----------------|----|----|----------------|----------------|
| $\frac{1}{2}$ -B<br>$\frac{1}{2}$ -B<br>1-B | 700<br>850<br>1150 | $\frac{1}{2}$ | $10\frac{1}{2}$       | $8\frac{1}{2}$ | $8\frac{1}{8}$ | $11\frac{1}{8}$ | $10\frac{1}{2}$ | $13\frac{1}{2}$ | 10 | 6 | $8\frac{1}{2}$ | $7\frac{1}{2}$ | $11\frac{1}{2}$ | $13\frac{1}{2}$ | 15 | $5\frac{1}{2}$ | $13\frac{1}{2}$ | 20 | 11 | $23\frac{1}{2}$ | 1  | 9  | $4\frac{1}{2}$ | $4\frac{1}{2}$ |

# Ready-to-Run Portable Ventilating Sets

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| Size | R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.                                       | H.P.  | Volume C.F.M.                                       | H.P.  | Volume C.F.M.                                       | H.P.  | Volume C.F.M.                                       | H.P.  | Volume C.F.M.                                       | H.P.  |
|------|--------|------------------|------------------|---|---|---|---|---|---|---|---|---|---|
|      |        |                  |                  | Static Pressure Free Discharge                      | Static Pressure 1 1/2" Water .342 ozs. per sq. inch | Static Pressure 1 1/2" Water .342 ozs. per sq. inch | Static Pressure 1 1/2" Water .342 ozs. per sq. inch | Static Pressure 1 1/2" Water .342 ozs. per sq. inch | Static Pressure 1 1/2" Water .342 ozs. per sq. inch | Static Pressure 1 1/2" Water .342 ozs. per sq. inch | Static Pressure 1 1/2" Water .342 ozs. per sq. inch | Static Pressure 1 1/2" Water .342 ozs. per sq. inch | Static Pressure 1 1/2" Water .342 ozs. per sq. inch |
| A    | 850    | 884              | 0.1258           | 58  | 0.0016  | 39  | 0.0011  |   |   |   |   |   |   |
|      | 1,150  | 1,196            | 0.2305           | 78  | 0.0039  | 65  | 0.0034  | 50  | 0.0024  |   |   |   |   |
|      | 1,750  | 1,820            | 0.533            | 119   | 0.014   | 111   | 0.013   | 102   | 0.012   | 91  | 0.011   | 73  | 0.008   |
|      | 3,400  | 3,537            | 2.015            | 231   | 0.1   | 227   | 0.099   | 223   | 0.097   | 218   | 0.096   | 211   | 0.094   |
| B    | 850    | 1,050            | 0.179            | 109   | 0.0042  | 85  | 0.0034  | 26  | 0.0016  |   |   |   |   |
|      | 1,150  | 1,427            | 0.328            | 147   | 0.0107  | 130   | 0.0095  | 112   | 0.0080  | 77  | 0.0054  |   |   |
|      | 1,750  | 2,170            | 0.758            | 223   | 0.0366  | 213   | 0.0356  | 202   | 0.0343  | 188   | 0.032   | 168   | 0.0285  |
|      | 3,400  | 4,215            | 2.87             | 430   | 0.29  | 429   | 0.28  | 424   | 0.269   | 417   | 0.263   | 409   | 0.261   |
| C    | 850    | 1,290            | 0.258            | 211   | 0.0131  | 205   | 0.0122  | 182   | 0.0108  | 35  | 0.0032  |   |   |
|      | 1,150  | 1,750            | 0.476            | 286   | 0.0328  | 285   | 0.0319  | 277   | 0.0304  | 260   | 0.0286  | 192   | 0.0206  |
|      | 1,750  | 2,660            | 1.10             | 435   | 0.115   | 434   | 0.114   | 433   | 0.112   | 430   | 0.110   | 420   | 0.107   |
|      | 2,250  | 3,420            | 1.82             | 560   | 0.246   |   |   |   |   | 558   | 0.237   | 554   | 0.234   |
| D    | 850    | 1,830            | 0.52             | 510   | 0.0639  | 597   | 0.062   | 496   | 0.0598  | 471   | 0.0560  | 393   | 0.0469  |
|      | 1,150  | 2,420            | 0.95             | 678   | 0.1575  | 686   | 0.153   | 684   | 0.153   | 674   | 0.148   | 654   | 0.144   |
|      | 1,750  | 4,760            | 2.2              | 1,046   | 0.555   |   |   |   |   | 1,043   | 0.547   | 1,040   | 0.534   |
|      |        |                  |                  |   |   |   |   |   |   |   |   |   |   |
| E    | 700    | 2,965            | 0.60             | 876   | 0.127   | 872   | 0.124   | 859   | 0.120   | 827   | 0.115   | 745   | 0.103   |
|      | 850    | 2,390            | 0.89             | 1,064   | 0.228   | 1,062   | 0.225   | 1,058   | 0.219   | 1,040   | 0.214   | 1,004   | 0.207   |
|      | 1,150  | 3,230            | 1.62             | 1,440   | 0.502   |   |   | 1,437   | 0.544   | 1,431   | 0.543   | 1,420   | 0.533   |
|      | 1,750  | 4,910            | 3.76             | 2,185   | 1.98  |   |   |   |   | 2,180   | 1.965   | 2,180   | 1.95  |
| Size | R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure 1 1/2" Water .342 ozs. per sq. inch | Static Pressure 1 1/2" Water .342 ozs. per sq. inch | Static Pressure 1 1/2" Water .342 ozs. per sq. inch | Static Pressure 1 1/2" Water .342 ozs. per sq. inch | Static Pressure 1 1/2" Water .342 ozs. per sq. inch | Static Pressure 1 1/2" Water .342 ozs. per sq. inch | Static Pressure 1 1/2" Water .342 ozs. per sq. inch | Static Pressure 1 1/2" Water .342 ozs. per sq. inch | Static Pressure 1 1/2" Water .342 ozs. per sq. inch | Static Pressure 1 1/2" Water .342 ozs. per sq. inch |
| A    | 850    | 884              | 0.1258           |   |   |   |   |   |   |   |   |   |   |
|      | 1,150  | 1,196            | 0.2305           |   |   |   |   |   |   |   |   |   |   |
|      | 1,750  | 1,820            | 0.533            | 28  | 0.005   |   |   |   |   |   |   |   |   |
|      | 3,400  | 3,537            | 2.015            | 204   | 0.092   | 197   | 0.089   | 158   | 0.068   | 117   | 0.051   |   |   |
| B    | 850    | 1,050            | 0.179            |   |   |   |   |   |   |   |   |   |   |
|      | 1,150  | 1,427            | 0.328            |   |   |   |   |   |   |   |   |   |   |
|      | 1,750  | 2,170            | 0.758            | 147   | 0.023   | 60  | 0.0105  |   |   |   |   |   |   |
|      | 3,400  | 4,215            | 2.87             | 390   | 0.254   | 390   | 0.248   | 341   | 0.219   | 315   | 0.2   | 145   | 0.106   |
| C    | 850    | 1,290            | 0.258            |   |   |   |   |   |   |   |   |   |   |
|      | 1,150  | 1,750            | 0.476            |   |   |   |   |   |   |   |   |   |   |
|      | 1,750  | 2,660            | 1.10             | 406   | 0.103   | 384   | 0.0973  |   |   |   |   |   |   |
|      | 2,250  | 3,420            | 1.82             | 548   | 0.232   | 540   | 0.228   | 451   | 0.188   | 223   | 0.114   |   |   |
| D    | 850    | 1,830            | 0.52             | 47  | 0.0683  |   |   |   |   |   |   |   |   |
|      | 1,150  | 2,470            | 0.95             | 622   | 0.137   | 569   | 0.125   |   |   |   |   |   |   |
|      | 1,750  | 3,760            | 2.2              | 1,033   | 0.529   | 1,023   | 0.523   | 925   | 0.468   | 818   | 0.413   |   |   |
|      |        |                  |                  |   |   |   |   |   |   |   |   |   |   |
| E    | 700    | 1,965            | 0.60             | 495   | 0.0688  | 841   | 0.172   |   |   |   |   |   |   |
|      | 850    | 2,390            | 0.89             | 945   | 0.194   |   |   |   |   |   |   |   |   |
|      | 1,150  | 3,230            | 1.62             | 1,399   | 0.524   | 1,370   | 0.514   | 1,000   | 0.366   | 254   | 0.144   |   |   |
|      | 1,750  | 4,910            | 3.76             | 2,180   | 1.94  | 2,185   | 1.92  | 2,115   | 1.84  | 2,070   | 1.8   | 1,800   | 1.65  |





# **ELECTRIC HEAT BLOWERS**

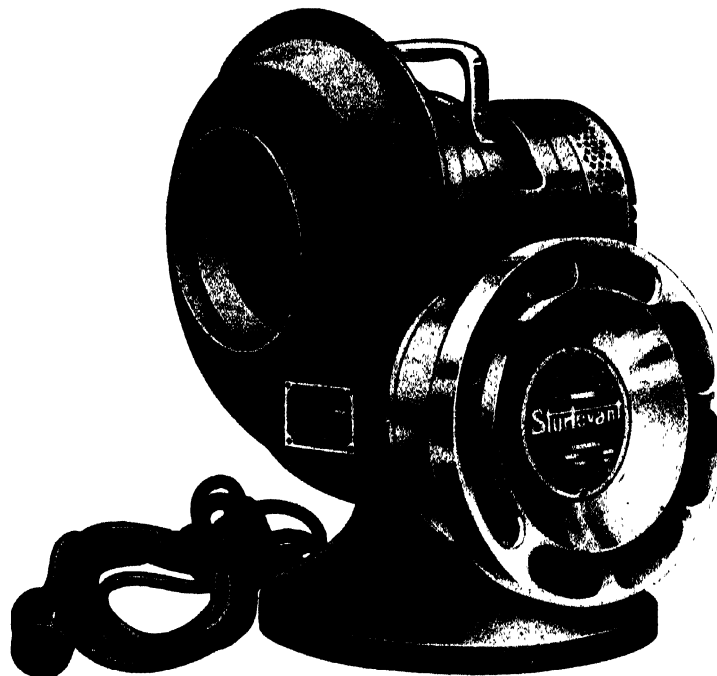
**Dimensions, Capacities, Horse Powers**



## Electric Heat Blower



The Outlet Can be Turned to Discharge in Any Direction.  
Switch Has Several Positions



Electric Heat Blower—Note Inlet and Heating Coils

# STURTEVANT ELECTRIC HEAT BLOWER

## SPECIFICATIONS

**General.** There shall be furnished a No..... Sturtevant Electric Heat Blower to consist of a Sturtevant size..... Ready-to-Run Ventilating Set with heating element clamped over the outlet. The set shall be so designed that the outlet can be turned around to discharge air in any direction.

**Heating Elements.** The heating element shall consist of an aluminum shell containing heating coils of high-grade resistance wire wound on porcelain cylinders.

**Motors.** The motor shall be of the Sturtevant UV Type, size....., frame to be of laminated steel with distributed field winding, and provided with S. K. F. self-aligning ball bearings.

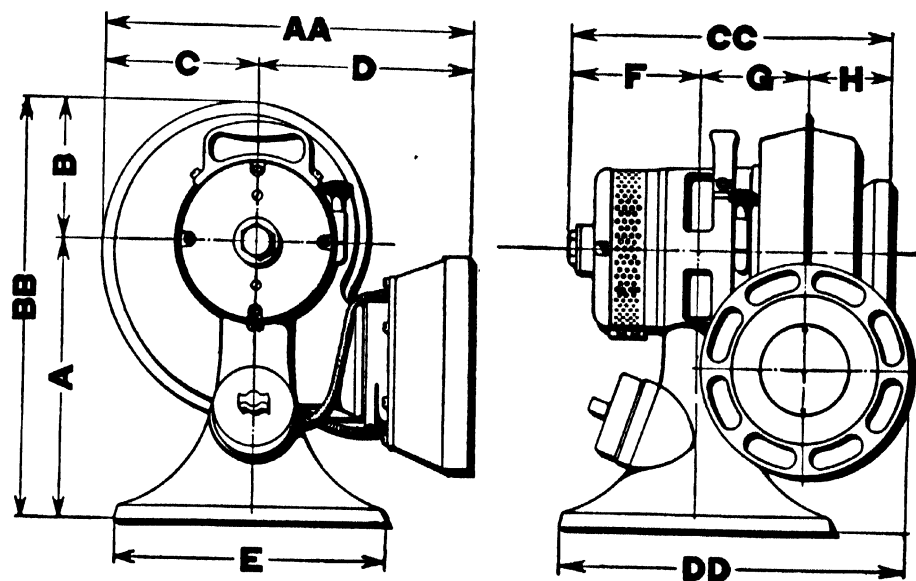
**Base.** The set shall be provided with a base so designed that there will be no danger of tipping. On the base a switch shall be provided to control the heating elements so that air of different temperatures can be secured.

## Electric Heat Blower

### APPROXIMATE WEIGHTS

| Size | Weight |
|------|--------|
| 1    | 50     |
| 2    | 61     |
| 3    | 95     |
| 4    | 132    |
| 5    | 310    |

# Electric Heat Blower



| Size | A                | B               | C                | D                | E  | F               | G               | H               | AA               | BB               | CC               | DD               |
|------|------------------|-----------------|------------------|------------------|----|-----------------|-----------------|-----------------|------------------|------------------|------------------|------------------|
| 1    | 8 $\frac{1}{4}$  | 4               | 4 $\frac{1}{2}$  | 6 $\frac{1}{2}$  | 8  | 4 $\frac{1}{2}$ | 3 $\frac{1}{2}$ | 2 $\frac{1}{2}$ | 11 $\frac{1}{2}$ | 12 $\frac{1}{2}$ | 10 $\frac{1}{2}$ | 11 $\frac{1}{2}$ |
| 2    | 9 $\frac{1}{4}$  | 4 $\frac{1}{2}$ | 5 $\frac{1}{2}$  | 7 $\frac{1}{2}$  | 10 | 4 $\frac{1}{2}$ | 3 $\frac{1}{2}$ | 3               | 13 $\frac{1}{2}$ | 14 $\frac{1}{2}$ | 11 $\frac{1}{2}$ | 12 $\frac{1}{2}$ |
| 3    | 12 $\frac{1}{4}$ | 5 $\frac{1}{2}$ | 6 $\frac{1}{2}$  | 9 $\frac{1}{2}$  | 12 | 5 $\frac{1}{2}$ | 5               | 3 $\frac{1}{2}$ | 16 $\frac{1}{2}$ | 18 $\frac{1}{2}$ | 14               | 16 $\frac{1}{2}$ |
| 4    | 15 $\frac{1}{4}$ | 7 $\frac{1}{2}$ | 9 $\frac{1}{2}$  | 12 $\frac{1}{2}$ | 17 | 5 $\frac{1}{2}$ | 6 $\frac{1}{2}$ | 5               | 21 $\frac{1}{4}$ | 23               | 17 $\frac{1}{4}$ | 22 $\frac{1}{4}$ |
| 5    | 18 $\frac{1}{2}$ | 10              | 11 $\frac{1}{4}$ | 13 $\frac{1}{2}$ | 22 | 6 $\frac{1}{2}$ | 7               | 6               | 25 $\frac{1}{4}$ | 28 $\frac{1}{2}$ | 19 $\frac{1}{2}$ | 27 $\frac{1}{2}$ |

## Electric Heat Blower

### CAPACITIES

| Size | Number of Air Temperatures Possible | Maximum Capacity in B. T. U. per Hour | Speed of Fan Revolutions per Minute | Maximum Temperature Rise Degrees Fah. | Watts Consumed (varies with the Temperature of Air) | Volume of Air Cubic Feet per Minute | Outside Diameter of Inlet in Inches | Extreme Diameter across Heater in Inches | Height in Inches |
|------|-------------------------------------|---------------------------------------|-------------------------------------|---------------------------------------|---|-------------------------------------|-------------------------------------|--|------------------|
| 1    | 1                                   | 3400                                  | 2100                                | 32                                    | 1000  | 100                                 | 4 $\frac{1}{8}$                     | 6 $\frac{1}{4}$                          | 12               |
| 2    | 2                                   | 6800                                  | 2000                                | 32                                    | 1000 or 2000  | 200                                 | 5 $\frac{1}{8}$                     | 7 $\frac{1}{2}$                          | 15               |
| 3    | 2                                   | 13500                                 | 1750                                | 30.4                                  | 2000 or 4000  | 420                                 | 6 $\frac{1}{8}$                     | 11 $\frac{1}{2}$                         | 19               |
| 4    | 3                                   | 24000                                 | 1150                                | 34                                    | 2300 or 4600 or 7000                                | 660                                 | 8 $\frac{5}{8}$                     | 14                                       | 23               |
| 5    | 3                                   | 34000                                 | 850                                 | 32.2                                  | 3300 or 6650 or 10000                               | 995                                 | 11 $\frac{1}{4}$                    | 18 $\frac{3}{4}$                         | 28 $\frac{1}{2}$ |

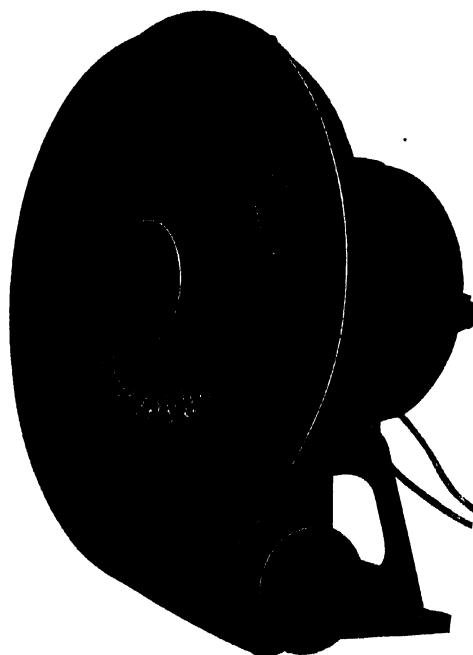
If permanent pipe connections are to be made to inlet or outlet, do not use above dimensions. Certified print will be sent upon request. All sets furnished with one extra set of brushes for motor and sizes 1, 2 and 3, with 15 feet of electric cord, without additional charge.

# **ELECTRIC FORGE BLOWERS**

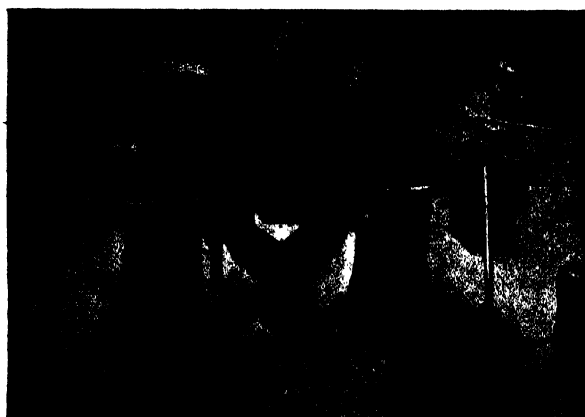
**Dimensions, Capacities, Horse Powers**



## Electric Forge Blowers



Electric Forge Blower.



Electric Forge Blower in Use.

## **FORGE BLOWER**

### **SPECIFICATIONS**

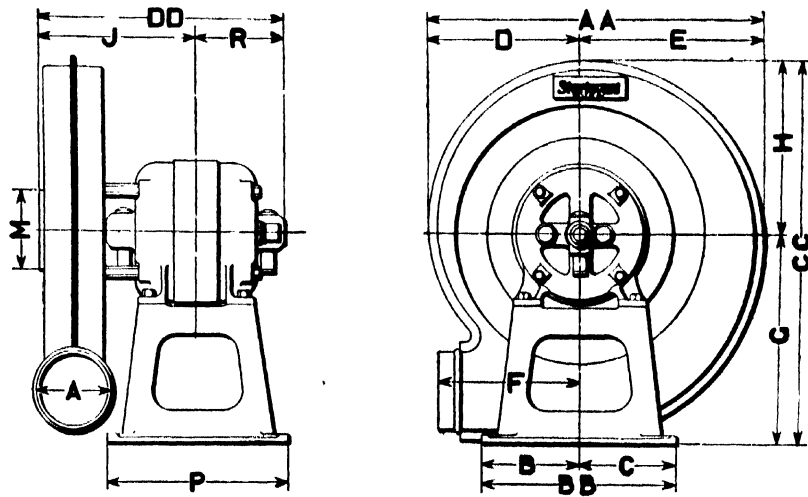
There shall be furnished a Sturtevant Forge Blower driven by an Electric Motor and built to operate on . . . . . current, . . . . . volts, . . . . . cycles, . . . . . phase. The wheel shall be overhung on the extended motor shaft, and shall be encased in a pressed steel casing made in two halves, flanged and bolted together. The outlet shall be arranged for connection to delivery pipe. There shall be provided a base sufficiently large so that the set will stand upright without other support.

## **Forge Blower**

### **EXPLANATION OF TABLES**

The general explanation of tables given at the front of this book applies without exception to the following tables.

# Forge Blower



(With A. C. Motor)

| A | B               | C               | D | E               | F               | G               | H               | J               | M | P               | R               | AA               | BB              | CC               | DD | Extreme Wheel Diameter | Anchor Bolts  |
|---|-----------------|-----------------|---|-----------------|-----------------|-----------------|-----------------|-----------------|---|-----------------|-----------------|------------------|-----------------|------------------|----|------------------------|---------------|
| 3 | 3 $\frac{1}{4}$ | 3 $\frac{1}{4}$ | 6 | 7 $\frac{1}{4}$ | 5 $\frac{1}{4}$ | 7 $\frac{1}{4}$ | 6 $\frac{1}{4}$ | 6 $\frac{1}{4}$ | 3 | 7 $\frac{1}{4}$ | 3 $\frac{1}{4}$ | 13 $\frac{1}{4}$ | 7 $\frac{1}{4}$ | 14 $\frac{1}{4}$ | 10 | 8                      | $\frac{1}{4}$ |

(With D. C. Motor)

| A | B               | C               | D | E               | F               | G               | H               | J               | M | P               | R               | AA               | BB              | CC               | DD | Extreme Wheel Diameter | Anchor Bolts  |
|---|-----------------|-----------------|---|-----------------|-----------------|-----------------|-----------------|-----------------|---|-----------------|-----------------|------------------|-----------------|------------------|----|------------------------|---------------|
| 3 | 3 $\frac{1}{4}$ | 3 $\frac{1}{4}$ | 6 | 7 $\frac{1}{4}$ | 5 $\frac{1}{4}$ | 7 $\frac{1}{4}$ | 6 $\frac{1}{4}$ | 6 $\frac{1}{4}$ | 3 | 7 $\frac{1}{4}$ | 3 $\frac{1}{4}$ | 13 $\frac{1}{4}$ | 7 $\frac{1}{4}$ | 14 $\frac{1}{4}$ | 10 | 10                     | $\frac{1}{4}$ |

## 8" Electric Multivane Forge Blower — A. C. Motor

| R.P.M. | Tip Speed<br>F.P.M. | S.N.D.<br>in<br>inches | Volume<br>C.F.M.   | H. P. | Volume<br>C.F.M.   | H. P. | Volume<br>C.F.M.   | H. P. | Volume<br>C.F.M.   | H. P. | Volume<br>C.F.M.  | H. P. | Volume<br>C.F.M.   | H. P. | Volume<br>C.F.M.   | H. P. |
|--------|---------------------|------------------------|--|-------|--|-------|--|-------|--|-------|---|-------|--|-------|--|-------|
|        |                     |                        | Static Pressure<br>3 1/2" Water<br>1.88 ozs. per<br>sq. inch |       | Static Pressure<br>3 1/2" Water<br>2.02 ozs. per<br>sq. inch |       | Static Pressure<br>3 1/2" Water<br>2.17 ozs. per<br>sq. inch |       | Static Pressure<br>4" Water<br>2.31 ozs. per<br>sq. inch |       | Static Pressure<br>4" Water<br>2.6 ozs. per<br>sq. inch |       | Static Pressure<br>5" Water<br>2.89 ozs. per<br>sq. inch |       | Static Pressure<br>5 1/4" Water<br>3.04 ozs. per<br>sq. inch |       |
| 3500   | 7425                | 5 41                   | 103  | 0 194 | 93 5   | 0 188 | 84 5   | 0 181 | 75 5   | 0 174 | 58  | 0 159 | 38 6   | 0 138 | 23 8   | 0 127 |

## 10" Electric Multivane Forge Blower — D. C. Motor

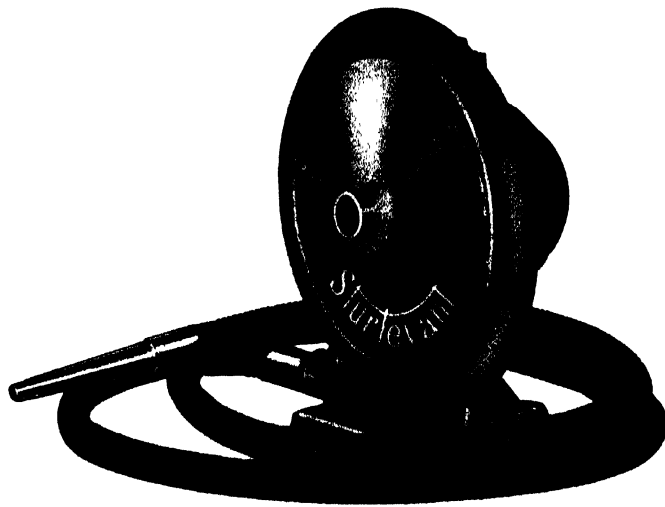
| R.P.M. | Tip Speed<br>F.P.M. | S.N.D.<br>in<br>inches | Volume<br>C.F.M.   | H. P. | Volume<br>C.F.M.   | H. P. | Volume<br>C.F.M.   | H. P. | Volume<br>C.F.M.  | H. P. | Volume<br>C.F.M.   | H. P. | Volume<br>C.F.M.   | H. P. | Volume<br>C.F.M.   | H. P. |
|--------|---------------------|------------------------|--|-------|--|-------|--|-------|---|-------|--|-------|--|-------|--|-------|
|        |                     |                        | Static Pressure<br>1 1/2" Water<br>.878 ozs. per<br>sq. inch |       | Static Pressure<br>1 1/2" Water<br>1.01 ozs. per<br>sq. inch |       | Static Pressure<br>2" Water<br>1.16 ozs. per<br>sq. inch     |       | Static Pressure<br>2 1/2" Water<br>1.3 ozs. per<br>sq. inch |       | Static Pressure<br>2 1/2" Water<br>1.45 ozs. per<br>sq. inch |       | Static Pressure<br>3" Water<br>1.59 ozs. per<br>sq. inch |       | Static Pressure<br>3" Water<br>1.73 ozs. per<br>sq. inch |       |
| 2800   | 7330                | 4 65                   | 167  | 0 194 | 158  | 0 187 | 147  | 0 18  | 136   | 0 171 | 125  | 0 165 | 112  | 0 156 | 100  | 0 14  |
| R.P.M. | Tip Speed<br>F.P.M. | S.N.D.<br>in<br>inches | Static Pressure<br>3 1/4" Water<br>1.88 ozs. per<br>sq. inch |       | Static Pressure<br>3 1/2" Water<br>2.02 ozs. per<br>sq. inch |       | Static Pressure<br>3 3/4" Water<br>2.17 ozs. per<br>sq. inch |       | Static Pressure<br>4" Water<br>2.31 ozs. per<br>sq. inch    |       | Static Pressure<br>4 1/2" Water<br>2.6 ozs. per<br>sq. inch  |       |  |       |  |       |
|        |                     |                        | 2800   | 7330  | 4 65   | 87    | 0 14   | 73    | 0 131   | 59    | 0 123  | 44    | 0 114  | 11    | 0 108  |       |

# **ELECTRIC DUST BLOWERS**

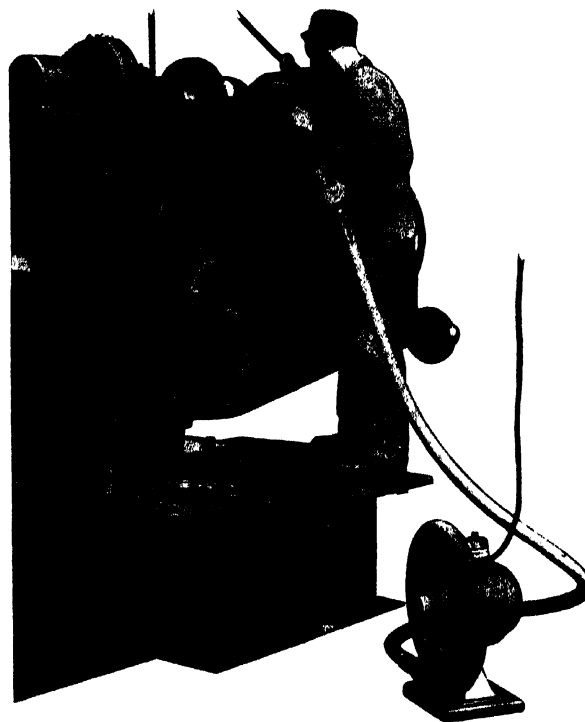
**Dimensions, Capacities, Horse Powers**



## Electric Dust Blower



Electric Dust Blower.



Electric Dust Blower in Use.



## DUST BLOWER

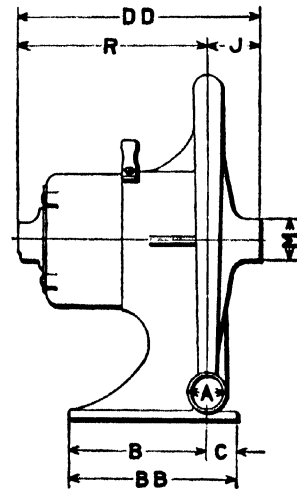
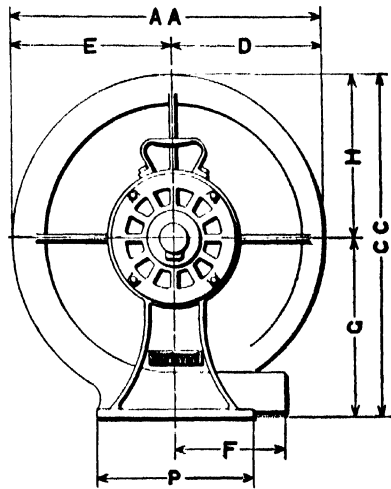
### SPECIFICATIONS

**General.** There shall be furnished a Sturtevant Dust Blower to consist of an aluminum casing and fan wheel driven by an Electric Motor and built to operate on.....current,.....volts, .....cycles, .....phase.

The set shall have a base large enough so that the apparatus will be perfectly stable without other support. The motor shall be supported from the blower casing.

There shall be provided 12 feet of flexible rubber hose, 1½ inches inside diameter to be attached to the outlet of blower. The hose shall be fitted with an aluminum blowing nozzle 10 inches long. Twenty feet of electric light cord with plug attachments shall also be provided.

# Sturtevant Dust Blower



(With Sturtevant 1-6 B Motor)

| A               | B              | C              | D               | E              | F | G               | H              | J              | M              | P              | R              | AA              | BB             | CC              | DD              | Extreme Wheel Diameter |
|-----------------|----------------|----------------|-----------------|----------------|---|-----------------|----------------|----------------|----------------|----------------|----------------|-----------------|----------------|-----------------|-----------------|------------------------|
| $2\frac{1}{16}$ | $5\frac{1}{4}$ | $1\frac{1}{8}$ | $8\frac{3}{16}$ | $8\frac{1}{2}$ | 6 | $9\frac{5}{16}$ | $8\frac{1}{2}$ | $2\frac{1}{4}$ | $2\frac{1}{8}$ | $8\frac{1}{2}$ | $8\frac{1}{2}$ | $16\frac{1}{8}$ | $7\frac{1}{4}$ | $17\frac{1}{8}$ | $11\frac{1}{2}$ | 11                     |

(With Sturtevant 3 U.V. Motor)

| A               | B | C              | D               | E              | F | G               | H              | J              | M              | P              | R              | AA              | BB             | CC              | DD              | Extreme Wheel Diameter |
|-----------------|---|----------------|-----------------|----------------|---|-----------------|----------------|----------------|----------------|----------------|----------------|-----------------|----------------|-----------------|-----------------|------------------------|
| $2\frac{1}{16}$ | 5 | $1\frac{1}{8}$ | $8\frac{3}{16}$ | $8\frac{1}{2}$ | 6 | $9\frac{5}{16}$ | $8\frac{1}{2}$ | $2\frac{3}{8}$ | $2\frac{1}{8}$ | $8\frac{1}{2}$ | $8\frac{1}{2}$ | $16\frac{1}{8}$ | $6\frac{1}{4}$ | $17\frac{1}{8}$ | $11\frac{1}{4}$ | 14                     |

Net Weight—55.



# **CONE FANS**

**Dimensions, Capacities, Horse Powers**



## Cone Fan



Cone Fan

## CONE FAN

### SPECIFICATIONS

**General.** There shall be furnished a Sturtevant Cone Fan of wheel diameter.....inches.

The fan shall have a capacity..... cubic feet per minute against a resistance of .....inches water gauge when operating at approximately..... R. P. M., and requiring approximately ..... B. H. P.

**Wheel.** The floats of the wheel shall be securely held between a back plate supported by a cast-iron cone keyed to the shaft, and an annular front plate. The floats shall be curved in the direction opposite to the rotation of the wheel.

**Shaft.** The shaft shall be made of a steel forging and after the keyways are cut shall be turned and ground.

**Bearings.** The bearings shall be of the brush oiling type, split lengthwise along the center of the shaft and supported by chairs so as to be self-aligning. Bearings shall be lined with the best quality babbit, containing upwards of 85 per cent. tin, bored and scraped to exact size.

**Pulley.** The fan shall be equipped with a pulley.....inch diameter, and with face.....inches wide.

## CONE FAN

### EXPLANATION OF SPECIFICATION REQUIREMENTS

It will be noted that the Cone Fan has no housing, and is generally used in connection with a plenum chamber. The backwardly curved floats give very quiet operation, and the cone fan is therefore very desirable where this is a factor.

## **Cone Fan**

### **EXPLANATION OF TABLES**

The fans of this type have no casing and deliver directly into a plenum space usually of considerable size. The capacities are measured from a pipe discharging from the room into which the fan delivers. The maintained resistance is the static pressure in the room.

For further information refer to the general explanation of tables in the front of the book,

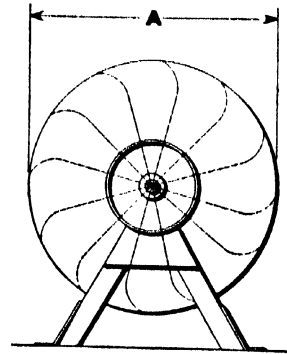
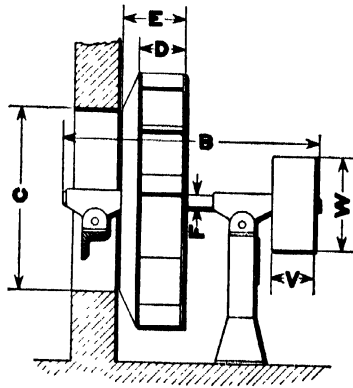


## **Cone Fan**

### **APPROXIMATE WEIGHTS**

| <b>Size</b> | <b>Weight Not Packed</b> |
|-------------|--------------------------|
| 30          | 50                       |
| 36          | 100                      |
| 42          | 168                      |
| 48          | 250                      |
| 54          | 340                      |
| 60          | 425                      |
| 66          | 525                      |
| 72          | 670                      |
| 84          | 800                      |
| 96          | 975                      |
| 108         | 1180                     |
| 120         | 1275                     |
| 144         | 1600                     |

# Cone Fan



| Fan Size | A   | B   | C   | D   | E   | F  | V   | W  |
|----------|-----|-----|-----|-----|-----|----|-----|----|
| 30       | 30  | 30  | 24  | 6   | 7½  | 1½ | 5½  | 12 |
| 36       | 36  | 36  | 27½ | 7½  | 9   | 1½ | 6½  | 14 |
| 42       | 42  | 42  | 31  | 8½  | 10½ | 1½ | 7½  | 16 |
| 48       | 48  | 48  | 36  | 9½  | 12  | 2½ | 7½  | 18 |
| 54       | 54  | 54  | 38  | 10½ | 13½ | 2½ | 8½  | 20 |
| 60       | 60  | 60  | 42  | 12  | 15  | 2½ | 8½  | 20 |
| 66       | 66  | 66  | 47  | 13½ | 16½ | 2½ | 9½  | 22 |
| 72       | 72  | 72  | 52½ | 14½ | 18  | 2½ | 10½ | 24 |
| 84       | 84  | 84  | 60  | 16½ | 21  | 3½ | 12½ | 28 |
| 96       | 96  | 96  | 68  | 19½ | 24  | 3½ | 12½ | 32 |
| 108      | 108 | 108 | 77  | 21½ | 27  | 3½ | 12½ | 36 |
| 120      | 120 | 120 | 86  | 24½ | 32½ | 3½ | 12½ | 42 |
| 144      | 144 | 144 | 102 | 29  | 38½ | 4½ | 14½ | 48 |

**When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances.**

| R.P.M. | Tip<br>Speed<br>F.P.M. | S.N.D.<br>In<br>inches | Volume<br>C.F.M.   |  | H. P.  |  | Volume<br>C.F.M.   |  | H. P.  |             | Volume<br>C.F.M. |      | H. P. |      | Volume<br>C.F.M. |      | H. P. |      | Volume<br>C.F.M. |  | H. P. |  |
|--------|------------------------|------------------------|--|--|--|--|--|--|--|-------------|------------------|------|-------|------|------------------|------|-------|------|------------------|--|-------|--|
|        |                        |                        | Static Pressure<br>1/2" Water<br>.145 ozs. per<br>sq. inch | Static Pressure<br>3/4" Water<br>.217 ozs. per<br>sq. inch | Static Pressure<br>1/2" Water<br>.239 ozs. per<br>sq. inch | Static Pressure<br>3/4" Water<br>.361 ozs. per<br>sq. inch | Static Pressure<br>1/2" Water<br>.434 ozs. per<br>sq. inch | Static Pressure<br>3/4" Water<br>.505 ozs. per<br>sq. inch | Static Pressure<br>1" Water<br>.578 ozs. per<br>sq. inch |             |                  |      |       |      |                  |      |       |      |                  |  |       |  |
| 306    | 2400                   | 0 293                  | 860  | 0 105  |  |  |  |  |  |             |                  |      |       |      |                  |      |       |      |                  |  |       |  |
| 330    | 2600                   | 0 341                  | 1,400  | 0 140  |  |  |  |  |  |             |                  |      |       |      |                  |      |       |      |                  |  |       |  |
| 356    | 2800                   | 0 390                  | 2,020  | 0 195  |  |  |  |  |  |             |                  |      |       |      |                  |      |       |      |                  |  |       |  |
| 382    | 3000                   | 0 457                  | <u>2,550</u>   | <u>0 27</u>  | 1,250  | 0 210  |  |  |  |             |                  |      |       |      |                  |      |       |      |                  |  |       |  |
| 408    | 3200                   | 0 520                  | 3,000  | 0 36   | 1,820  | 0 265  |  |  |  |             |                  |      |       |      |                  |      |       |      |                  |  |       |  |
| 433    | 3400                   | 0 587                  |  |  | 2,390  | 0 340  | 1,240  | 0 300  |  |             |                  |      |       |      |                  |      |       |      |                  |  |       |  |
| 459    | 3600                   | 0 658                  |  |  | <u>2,930</u>   | <u>0 415</u>   | 1,820  | 0 365  |  |             |                  |      |       |      |                  |      |       |      |                  |  |       |  |
| 485    | 3800                   | 0 734                  |  |  | 3,410  | <u>0 57</u>  | 2,420  | 0 46   | 1,390  | 0 415       |                  |      |       |      |                  |      |       |      |                  |  |       |  |
| 510    | 4000                   | 0 814                  |  |  | 3,930  | 0 72   | 2,960  | 0 58   | 1,970  | 0 50        |                  |      |       |      |                  |      |       |      |                  |  |       |  |
| 535    | 4200                   | 0 898                  |  |  |  |  | 3,470  | <u>0 73</u>  | 2,530  | 0 61        | 1,650            | 0 54 |       |      |                  |      |       |      |                  |  |       |  |
| 560    | 4400                   | 0 985                  |  |  |  |  | 4,000  | <u>0 89</u>  | 3,110  | 0 75        | 2,220            | 0 67 |       |      |                  |      |       |      |                  |  |       |  |
| 585    | 4600                   | 1 075                  |  |  |  |  | 4,480  | 1 1  | 3,660  | <u>0 91</u> | 2,760            | 0 79 | 1,940 | 0 75 |                  |      |       |      |                  |  |       |  |
| 611    | 4800                   | 1 17                   |  |  |  |  |  |  | 4,190  | 1 10        | 3,360            | 0 96 | 2,530 | 0 88 | 1,720            | 0 83 |       |      |                  |  |       |  |
| 636    | 5000                   | 1 27                   |  |  |  |  |  |  | 4,660  | 1 35        | 3,890            | 1 15 | 3,100 | 1 05 | 2,300            | 0 96 |       |      |                  |  |       |  |
| 669    | 5250                   | 1 40                   |  |  |  |  |  |  |  |             | 4,580            | 1 45 | 3,820 | 1 30 | 3,060            | 1 20 |       |      |                  |  |       |  |
| 700    | 5500                   | 1 54                   |  |  |  |  |  |  | 5,310  | 1 7         |                  |      | 5,190 | 1 8  | 4,480            | 1 45 |       |      |                  |  |       |  |
| 732    | 5750                   | 1 68                   |  |  |  |  |  |  |  |             |                  |      | 5,810 | 2 2  |                  |      |       |      |                  |  |       |  |
| 765    | 6000                   | 1 83                   |  |  |  |  |  |  |  |             |                  |      |       |      | 5,130            | 1 95 | 4,430 | 1 75 |                  |  |       |  |
| 796    | 6250                   | 1 99                   |  |  |  |  |  |  |  |             |                  |      |       |      | 5,740            | 2 35 | 5,070 | 2 15 |                  |  |       |  |
| 826    | 6500                   | 2 15                   |  |  |  |  |  |  |  |             |                  |      |       |      | 6,370            | 2 85 | 5,740 | 2 60 |                  |  |       |  |
|        |                        |                        |  |  |  |  |  |  |  |             |                  |      |       |      |                  |      | 6,330 | 3 05 |                  |  |       |  |
| 860    | 6750                   | 2 32                   |  |  |  |  |  |  |  |             |                  |      |       |      |                  |      | 6,980 | 3 65 |                  |  |       |  |

**When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances.**

| R.P.M. | Tip Speed<br>F.P.M. | S.N.D.<br>inches | Volume<br>C.F.M.  | H. P. | Volume<br>C.F.M.  | H. P. | Volume<br>C.F.M.  | H. P. | Volume<br>C.F.M.  | H. P. | Volume<br>C.F.M.  | H. P. | Volume<br>C.F.M.  | H. P. | Volume<br>C.F.M.   | H. P. | Volume<br>C.F.M. | H. P. |
|--------|---------------------|------------------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|--|-------|------------------|-------|
|        |                     |                  | Static Pressure<br>$\frac{1}{4}$ " Water<br>.145 ozs. per<br>sq. inch |       | Static Pressure<br>$\frac{3}{8}$ " Water<br>.217 ozs. per<br>sq. inch |       | Static Pressure<br>$\frac{1}{2}$ " Water<br>.289 ozs. per<br>sq. inch |       | Static Pressure<br>$\frac{5}{8}$ " Water<br>.361 ozs. per<br>sq. inch |       | Static Pressure<br>$\frac{3}{4}$ " Water<br>.434 ozs. per<br>sq. inch |       | Static Pressure<br>$\frac{7}{8}$ " Water<br>.505 ozs. per<br>sq. inch |       | Static Pressure<br>1" Water<br>.578 ozs. per<br>sq. inch |       |                  |       |
| 255    | 2400                | 0.293            | 1,250   | 0.150 |   |       |   |       |   |       |   |       |   |       |  |       |                  |       |
| 276    | 2600                | 0.344            | 2,120   | 0.205 |   |       |   |       |   |       |   |       |   |       |  |       |                  |       |
| 297    | 2800                | 0.399            | 2,930   | 0.28  |   |       |   |       |   |       |   |       |   |       |  |       |                  |       |
| 318    | 3000                | 0.457            | 3,700   | 0.39  | 1,810   | 305   |   |       |   |       |   |       |   |       |  |       |                  |       |
| 340    | 3200                | 0.520            | 4,440   | 0.52  | 2,640   | 0.385 |   |       |   |       |   |       |   |       |  |       |                  |       |
| 361    | 3400                | 0.587            |   |       | 3,470   | 0.495 | 1,800   | 0.435 |   |       |   |       |   |       |  |       |                  |       |
| 382    | 3600                | 0.658            |   |       | 4,250   | 0.65  | 2,640   | 0.53  |   |       |   |       |   |       |  |       |                  |       |
| 403    | 3800                | 0.734            |   |       | 4,990   | 0.83  | 3,520   | 0.67  | 2,020   | 0.60  |   |       |   |       |  |       |                  |       |
| 425    | 4000                | 0.814            |   |       | 5,700   | 1.05  | 4,300   | 0.84  | 2,850   | 0.73  |   |       |   |       |  |       |                  |       |
| 445    | 4200                | 0.898            |   |       |   |       | 5,030   | 1.05  | 3,670   | 0.88  | 2,400   | 0.78  |   |       |  |       |                  |       |
| 467    | 4400                | 0.985            |   |       |   |       | 5,800   | 1.30  | 4,520   | 1.10  | 3,210   | 0.97  |   |       |  |       |                  |       |
| 488    | 4600                | 1.075            |   |       |   |       | 6,500   | 1.55  | 5,300   | 1.30  | 4,010   | 1.15  | 2,810   | 1.10  |  |       |                  |       |
| 510    | 4800                | 1.17             |   |       |   |       |   |       | 6,070   | 1.60  | 4,880   | 1.40  | 3,660   | 1.30  | 2,490  | 1.20  |                  |       |
| 531    | 5000                | 1.27             |   |       |   |       |   |       | 6,750   | 1.95  | 5,650   | 1.70  | 4,500   | 1.50  | 3,340  | 1.40  |                  |       |
| 557    | 5250                | 1.40             |   |       |   |       |   |       | 7,700   | 2.45  | 6,650   | 2.15  | 5,540   | 1.85  | 4,430  | 1.70  |                  |       |
| 584    | 5500                | 1.54             |   |       |   |       |   |       |   |       | 7,530   | 2.6   | 6,500   | 2.30  | 5,430  | 2.10  |                  |       |
| 610    | 5750                | 1.68             |   |       |   |       |   |       |   |       | 8,440   | 3.2   | 7,440   | 2.85  | 6,410  | 2.55  |                  |       |
| 637    | 6000                | 1.83             |   |       |   |       |   |       |   |       |   |       | 8,330   | 3.45  | 7,350  | 3.10  |                  |       |
| 663    | 6250                | 1.99             |   |       |   |       |   |       |   |       |   |       | 9,240   | 4.15  | 8,330  | 3.75  |                  |       |
| 690    | 6500                | 2.15             |   |       |   |       |   |       |   |       |   |       |   |       | 9,180  | 4.45  |                  |       |
| 716    | 6750                | 2.32             |   |       |   |       |   |       |   |       |   |       |   |       | 10,100   | 5.3   |                  |       |

## 42" Sturtevant Cone Fan

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances.

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.                                     | H. P. | Volume C.F.M.                                     | H. P. | Volume C.F.M.                                     | H. P. | Volume C.F.M.                                     | H. P. | Volume C.F.M.                                     | H. P. | Volume C.F.M.                                     | H. P. | Volume C.F.M.                                   | H. P. |
|--------|------------------|------------------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|
|        |                  |                  | Static Pressure 1/4" Water .145 ozs. per sq. inch |       | Static Pressure 3/8" Water .217 ozs. per sq. inch |       | Static Pressure 1/2" Water .289 ozs. per sq. inch |       | Static Pressure 5/8" Water .361 ozs. per sq. inch |       | Static Pressure 3/4" Water .434 ozs. per sq. inch |       | Static Pressure 7/8" Water .505 ozs. per sq. inch |       | Static Pressure 1" Water .578 ozs. per sq. inch |       |
| 218    | 2,400            | 0 293            | 1,700   | 0.205 |   |       |   |       |   |       |   |       |   |       |   |       |
| 236    | 2,600            | 0 344            | 2,900   | 0 280 |   |       |   |       |   |       |   |       |   |       |   |       |
| 255    | 2,800            | 0 399            | 4,000   | 0 385 |   |       |   |       |   |       |   |       |   |       |   |       |
| 273    | 3,000            | 0 457            | 5,050   | 0.54  | 2,480   | 0 415 |   |       |   |       |   |       |   |       |   |       |
| 291    | 3,200            | 0 520            | 6,090   | 0 71  | 3,600   | 0.53  |   |       |   |       |   |       |   |       |   |       |
| 309    | 3,400            | 0 587            |   |       | 4,730   | 0.68  | 2,460   | 0 59  |   |       |   |       |   |       |   |       |
| 329    | 3,600            | 0 658            |   |       | 5,800   | 0.88  | 3,610   | 0 73  |   |       |   |       |   |       |   |       |
| 346    | 3,800            | 0 734            |   |       | 6,810   | 1 15  | 4,800   | 0 91  |   |       |   |       |   |       |   |       |
| 364    | 4,000            | 0 814            |   |       | 7,780   | 1.45  | 5,860   | 1 15  | 2,780   | 0 83  |   |       |   |       |   |       |
| 382    | 4,200            | 0 898            |   |       |   |       | 6,860   | 1.45  | 3,890   | 1 00  |   |       |   |       |   |       |
| 400    | 4,400            | 0 985            |   |       |   |       | 7,910   | 1 75  | 5,000   | 1 20  | 3,270   | 1 05  |   |       |   |       |
| 418    | 4,600            | 1 075            |   |       |   |       | 8,870   | 2 15  | 6,170   | 1 50  | 4,380   | 1 35  |   |       |   |       |
| 436    | 4,800            | 1 17             |   |       |   |       |   |       | 7,240   | 1 80  | 5,470   | 1 55  | 3,840   | 1 50  |   |       |
| 455    | 5,000            | 1 27             |   |       |   |       |   |       | 8,290   | 2 20  | 6,650   | 1 90  | 5,000   | 1 75  | 3,400   | 1 65  |
| 478    | 5,250            | 1 40             |   |       |   |       |   |       | 9,220   | 2 65  | 7,700   | 2 30  | 6,150   | 2 05  | 4,550   | 1 90  |
| 500    | 5,500            | 1 54             |   |       |   |       |   |       | 10,500  | 3 35  | 9,060   | 2 90  | 7,560   | 2 55  | 6,050   | 2 35  |
| 523    | 5,750            | 1 68             |   |       |   |       |   |       |   |       | 10,300  | 3 55  | 8,870   | 3 15  | 7,410   | 2 85  |
| 545    | 6,000            | 1 83             |   |       |   |       |   |       |   |       | 11,500  | 4 40  | 10,200  | 3 85  | 8,750   | 3 50  |
| 569    | 6,250            | 1 99             |   |       |   |       |   |       |   |       |   |       | 11,400  | 4 7   | 10,000  | 4 25  |
| 591    | 6,500            | 2 15             |   |       |   |       |   |       |   |       |   |       | 12,600  | 5 6   | 11,400  | 5 1   |
| 614    | 6,750            | 2 32             |   |       |   |       |   |       |   |       |   |       |   |       | 12,500  | 6 1   |
|        |                  |                  |   |       |   |       |   |       |   |       |   |       |   |       | 13,700  | 7 2   |

## 48" Sturtevant Cone Fan

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances.

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.                                     | H. P. | Volume C.F.M.                                     | H. P. | Volume C.F.M.                                     | H. P. | Volume C.F.M.                                     | H. P. | Volume C.F.M.                                     | H. P. | Volume C.F.M.                                     | H. P. | Volume C.F.M.                                   | H. P. |
|--------|------------------|------------------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|
|        |                  |                  | Static Pressure 1/4" Water .145 ozs. per sq. inch |       | Static Pressure 3/8" Water .217 ozs. per sq. inch |       | Static Pressure 1/2" Water .289 ozs. per sq. inch |       | Static Pressure 5/8" Water .361 ozs. per sq. inch |       | Static Pressure 3/4" Water .434 ozs. per sq. inch |       | Static Pressure 7/8" Water .505 ozs. per sq. inch |       | Static Pressure 1" Water .578 ozs. per sq. inch |       |
| 191    | 2,400            | 0 293            | 2,170   | 0.265 |   |       |   |       |   |       |   |       |   |       |   |       |
| 207    | 2,600            | 0 314            | 3,700   | 0 36  |   |       |   |       |   |       |   |       |   |       |   |       |
| 223    | 2,800            | 0 399            | 5,100   | 0 49  |   |       |   |       |   |       |   |       |   |       |   |       |
| 239    | 3,000            | 0 457            | 6,450   | 0 68  | 3,160   | 0 53  |   |       |   |       |   |       |   |       |   |       |
| 255    | 3,200            | 0 520            | 7,720   | 0 91  | 4,600   | 0 67  |   |       |   |       |   |       |   |       |   |       |
| 271    | 3,400            | 0 587            |   |       | 6,050   | 0 86  | 3,140   | 0 75  |   |       |   |       |   |       |   |       |
| 287    | 3,600            | 0 658            |   |       | 7,400   | 1 15  | 4,620   | 0 93  |   |       |   |       |   |       |   |       |
| 302    | 3,800            | 0 734            |   |       | 8,700   | 1 45  | 6,120   | 1 15  | 3,520   | 1 05  |   |       |   |       |   |       |
| 319    | 4,000            | 0 814            |   |       | 9,940   | 1 85  | 7,480   | 1 45  | 4,970   | 1 25  |   |       |   |       |   |       |
| 331    | 4,200            | 0 898            |   |       |   |       | 8,750   | 1 85  | 6,400   | 1 55  | 4,170   | 1 35  |   |       |   |       |
| 350    | 4,400            | 0 985            |   |       |   |       | 10,100  | 2 25  | 7,880   | 1 90  | 5,600   | 1 70  |   |       |   |       |
| 366    | 4,600            | 1 075            |   |       |   |       | 11,300  | 2 75  | 9,250   | 2 30  | 6,990   | 2 00  | 4,910   | 1 90  |   |       |
| 382    | 4,800            | 1 17             |   |       |   |       |   |       | 10,600  | 2 80  | 8,500   | 2 40  | 6,400   | 2 20  | 4,350   | 2 10  |
| 398    | 5,000            | 1 27             |   |       |   |       |   |       | 11,800  | 3 40  | 9,840   | 2 95  | 7,850   | 2 60  | 5,820   | 2 45  |
| 418    | 5,250            | 1 40             |   |       |   |       |   |       | 13,400  | 4 25  | 11,600  | 3 70  | 9,660   | 3 25  | 7,720   | 3 0   |
| 438    | 5,500            | 1 54             |   |       |   |       |   |       |   |       | 13,100  | 4 55  | 11,300  | 4 00  | 9,470   | 3 6   |
| 458    | 5,750            | 1 68             |   |       |   |       |   |       |   |       | 14,700  | 5 60  | 13,000  | 4 95  | 11,200  | 4 5   |
| 478    | 6,000            | 1 83             |   |       |   |       |   |       |   |       |   |       | 14,500  | 6 0   | 12,800  | 5 4   |
| 498    | 6,250            | 1 99             |   |       |   |       |   |       |   |       |   |       | 16,100  | 7 2   | 14,500  | 6 5   |
| 517    | 6,500            | 2 15             |   |       |   |       |   |       |   |       |   |       |   |       | 16,000  | 7 8   |
| 537    | 6,750            | 2 32             |   |       |   |       |   |       |   |       |   |       |   |       | 17,600  | 9 3   |

[illegible]

**When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances.**

[illegible][illegible]

**When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances.**

[illegible]

## 66" Sturtevant Cone Fan

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances.

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.                                     | H. P. | Volume C.F.M.                                     | H. P. | Volume C.F.M.                                     | H. P. | Volume C.F.M.                                     | H. P. | Volume C.F.M.                                     | H. P. | Volume C.F.M.                                     | H. P. | Volume C.F.M.                                   | H. P. |
|--------|------------------|------------------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|
|        |                  |                  | Static Pressure 1/4" Water .145 ozs. per sq. inch |       | Static Pressure 3/8" Water .217 ozs. per sq. inch |       | Static Pressure 1/2" Water .289 ozs. per sq. inch |       | Static Pressure 5/8" Water .361 ozs. per sq. inch |       | Static Pressure 3/4" Water .434 ozs. per sq. inch |       | Static Pressure 7/8" Water .506 ozs. per sq. inch |       | Static Pressure 1" Water .578 ozs. per sq. inch |       |
| 139    | 2400             | 0 293            | 4,180   | 0 51  |   |       |   |       |   |       |   |       |   |       |   |       |
| 150    | 2600             | 0 344            | 7,100   | 0 89  |   |       |   |       |   |       |   |       |   |       |   |       |
| 162    | 2800             | 0 399            | 9,800   | 0 95  |   |       |   |       |   |       |   |       |   |       |   |       |
| 174    | 3000             | 0 457            | 12,400  | 1 35  | 6,080   | 1 00  |   |       |   |       |   |       |   |       |   |       |
| 185    | 3200             | 0 520            | 14,900  | 1 75  | 8,850   | 1 30  |   |       |   |       |   |       |   |       |   |       |
| 197    | 3400             | 0 587            |   |       | 11,600  | 1 65  | 6,040   | 1 45  |   |       |   |       |   |       |   |       |
| 208    | 3600             | 0 658            |   |       | 14,200  | 2 15  | 8,850   | 1 80  |   |       |   |       |   |       |   |       |
| 220    | 3800             | 0 734            |   |       | 16,700  | 2 8   | 11,800  | 2 25  | 6,760   | 2 00  |   |       |   |       |   |       |
| 231    | 4000             | 0 814            |   |       | 19,100  | 3 5   | 14,400  | 2 80  | 9,550   | 2 45  |   |       |   |       |   |       |
| 243    | 4200             | 0 898            |   |       |   |       | 16,900  | 3 55  | 12,300  | 2 95  | 8,030   | 2 60  |   |       |   |       |
| 255    | 4400             | 0 985            |   |       |   |       | 19,400  | 4 35  | 15,100  | 3 65  | 10,800  | 3 25  |   |       |   |       |
| 266    | 4600             | 1 075            |   |       |   |       | 21,800  | 5 3   | 17,800  | 4 4   | 13,500  | 3 85  | 9,420   | 3 65  |   |       |
| 278    | 4800             | 1 17             |   |       |   |       |   |       | 20,400  | 5 4   | 16,300  | 4 70  | 12,300  | 4 3   | 8,350   | 4 05  |
| 289    | 5000             | 1 27             |   |       |   |       |   |       | 22,600  | 6 5   | 18,900  | 5 6   | 15,100  | 5 0   | 11,200  | 4 7   |
| 304    | 5250             | 1 40             |   |       |   |       |   |       | 25,800  | 8 2   | 22,300  | 7 2   | 18,600  | 6 3   | 14,800  | 5 7   |
| 318    | 5500             | 1 54             |   |       |   |       |   |       |   |       | 25,200  | 8 8   | 21,800  | 7 7   | 18,200  | 7 0   |
| 333    | 5750             | 1 68             |   |       |   |       |   |       |   |       | 28,300  | 11    | 24,900  | 9 5   | 21,500  | 8 6   |
| 347    | 6000             | 1 83             |   |       |   |       |   |       |   |       |   |       | 27,900  | 11 5  | 24,000  | 10 5  |
| 361    | 6250             | 1 99             |   |       |   |       |   |       |   |       |   |       | 30,900  | 14    | 27,000  | 12 5  |
| 375    | 6500             | 2 15             |   |       |   |       |   |       |   |       |   |       |   |       | 30,800  | 15    |
| 390    | 6750             | 2 32             |   |       |   |       |   |       |   |       |   |       |   |       | 33,900  | 18    |

## 72" Sturtevant Cone Fan

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances.

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.                                     | H. P. | Volume C.F.M.                                     | H. P. | Volume C.F.M.                                     | H. P. | Volume C.F.M.                                     | H. P. | Volume C.F.M.                                     | H. P. | Volume C.F.M.                                     | H. P. | Volume C.F.M.                                   | H. P. |
|--------|------------------|------------------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|
|        |                  |                  | Static Pressure 1/4" Water .145 ozs. per sq. inch |       | Static Pressure 3/8" Water .217 ozs. per sq. inch |       | Static Pressure 1/2" Water .289 ozs. per sq. inch |       | Static Pressure 5/8" Water .361 ozs. per sq. inch |       | Static Pressure 3/4" Water .434 ozs. per sq. inch |       | Static Pressure 7/8" Water .506 ozs. per sq. inch |       | Static Pressure 1" Water .578 ozs. per sq. inch |       |
| 127    | 2100             | 0 293            | 4,980   | 0 60  |   |       |   |       |   |       |   |       |   |       |   |       |
| 138    | 2300             | 0 344            | 8,480   | 0 83  |   |       |   |       |   |       |   |       |   |       |   |       |
| 148    | 2500             | 0 399            | 11,700  | 1 15  |   |       |   |       |   |       |   |       |   |       |   |       |
| 159    | 3000             | 0 457            | 14,800  | 1 55  | 7,250   | 1 20  |   |       |   |       |   |       |   |       |   |       |
| 170    | 3200             | 0 520            | 17,800  | 2 1   | 10,600  | 1 55  |   |       |   |       |   |       |   |       |   |       |
| 180    | 3400             | 0 587            |   |       | 13,900  | 2 00  | 7,200   | 1 75  |   |       |   |       |   |       |   |       |
| 191    | 3600             | 0 658            |   |       | 17,000  | 2 60  | 10,600  | 2 10  |   |       |   |       |   |       |   |       |
| 202    | 3800             | 0 734            |   |       | 20,000  | 3 30  | 14,100  | 2 65  | 8,070   | 2 40  |   |       |   |       |   |       |
| 212    | 4000             | 0 814            |   |       | 22,800  | 4 15  | 17,200  | 3 35  | 11,400  | 2 90  |   |       |   |       |   |       |
| 223    | 4200             | 0 898            |   |       |   |       | 20,100  | 4 2   | 14,700  | 3 50  | 9,570   | 3 10  |   |       |   |       |
| 233    | 4400             | 0 985            |   |       |   |       | 23,200  | 5 2   | 18,100  | 4 35  | 12,800  | 3 9   |   |       |   |       |
| 244    | 4600             | 1 075            |   |       |   |       | 26,000  | 6 3   | 21,200  | 5 3   | 16,000  | 4 6   | 11,200  | 4 35  |   |       |
| 254    | 4800             | 1 17             |   |       |   |       |   |       | 24,300  | 6 5   | 19,500  | 5 6   | 14,700  | 5 1   | 10,000  | 4 85  |
| 265    | 5000             | 1 27             |   |       |   |       |   |       | 27,000  | 7 8   | 22,600  | 6 7   | 18,000  | 6 0   | 13,300  | 5 6   |
| 278    | 5250             | 1 40             |   |       |   |       |   |       | 30,800  | 9 8   | 26,600  | 8 5   | 22,200  | 7 5   | 17,700  | 6 8   |
| 292    | 5500             | 1 54             |   |       |   |       |   |       |   |       | 30,100  | 10 5  | 26,000  | 9 2   | 21,700  | 8 3   |
| 305    | 5750             | 1 68             |   |       |   |       |   |       |   |       | 33,800  | 13    | 29,800  | 11 5  | 25,600  | 10 5  |
| 318    | 6000             | 1 83             |   |       |   |       |   |       |   |       |   |       | 33,300  | 14 0  | 29,400  | 12 5  |
| 331    | 6250             | 1 99             |   |       |   |       |   |       |   |       |   |       | 37,000  | 16 5  | 33,300  | 15    |
| 345    | 6500             | 2 15             |   |       |   |       |   |       |   |       |   |       |   |       | 36,700  | 18    |
| 358    | 6750             | 2 32             |   |       |   |       |   |       |   |       |   |       |   |       | 40,500  | 21    |



## 108" Sturtevant Cone Fan

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances.

| R.P.M. | Tip Speed<br>F.P.M. | S.N.D.<br>in<br>inches | Volume<br>C.F.M.   | H. P. | Volume<br>C.F.M.   | H. P. | Volume<br>C.F.M.   | H. P. | Volume<br>C.F.M.   | H. P. | Volume<br>C.F.M.   | H. P. | Volume<br>C.F.M.   | H. P. | Volume<br>C.F.M.   | H. P. |
|--------|---------------------|------------------------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|
|        |                     |                        | Static Pressure<br>1/4" Water<br>.145 ozs. per<br>sq. inch |       | Static Pressure<br>3/8" Water<br>.217 ozs. per<br>sq. inch |       | Static Pressure<br>1/2" Water<br>.289 ozs. per<br>sq. inch |       | Static Pressure<br>5/8" Water<br>.361 ozs. per<br>sq. inch |       | Static Pressure<br>3/4" Water<br>.434 ozs. per<br>sq. inch |       | Static Pressure<br>7/8" Water<br>.506 ozs. per<br>sq. inch |       | Static Pressure<br>1" Water<br>.578 ozs. per<br>sq. inch |       |
| 85     | 2,400               | 0 293                  | 11,200   | 1.35  |  |       |  |       |  |       |  |       |  |       |  |       |
| 92     | 2,600               | 0 344                  | 19,000   | 1.85  |  |       |  |       |  |       |  |       |  |       |  |       |
| 99     | 2,800               | 0 399                  | 26,200   | 2.55  |  |       |  |       |  |       |  |       |  |       |  |       |
| 106    | 3,000               | 0 457                  | 33,100   | 3.5   | 16,300   | 2.70  |  |       |  |       |  |       |  |       |  |       |
| 113    | 3,200               | 0 520                  | 39,300   | 4.7   | 23,700   | 3.45  |  |       |  |       |  |       |  |       |  |       |
| 120    | 3,400               | 0 587                  |  |       | 31,100   | 4.45  | 16,200   | 3.90  |  |       |  |       |  |       |  |       |
| 128    | 3,600               | 0 658                  |  |       | 38,100   | 5.8   | 23,700   | 4.75  |  |       |  |       |  |       |  |       |
| 135    | 3,800               | 0 734                  |  |       | 44,800   | 7.4   | 31,500   | 6.0   | 18,100   | 5.4   |  |       |  |       |  |       |
| 142    | 4,000               | 0 814                  |  |       | 51,100   | 9.4   | 38,500   | 7.5   | 25,600   | 6.6   |  |       |  |       |  |       |
| 149    | 4,200               | 0 898                  |  |       |  |       | 45,100   | 9.5   | 32,900   | 7.9   | 21,500   | 7.0   |  |       |  |       |
| 156    | 4,400               | 0 985                  |  |       |  |       | 52,000   | 11.5  | 40,500   | 9.7   | 28,800   | 8.7   |  |       |  |       |
| 163    | 4,600               | 1 075                  |  |       |  |       | 58,300   | 14    | 47,600   | 12.0  | 35,900   | 10.5  | 25,200   | 9.8   |  |       |
| 170    | 4,800               | 1 17                   |  |       |  |       |  |       | 54,500   | 11.5  | 43,700   | 12.5  | 32,900   | 11.5  | 22,400   | 11.0  |
| 177    | 5,000               | 1 27                   |  |       |  |       |  |       | 60,600   | 17.5  | 50,600   | 15.0  | 40,400   | 13.5  | 29,900   | 12.5  |
| 186    | 5,250               | 1 40                   |  |       |  |       |  |       | 69,000   | 22    | 59,500   | 19.0  | 49,600   | 17.0  | 39,700   | 15.5  |
| 195    | 5,500               | 1 54                   |  |       |  |       |  |       |  |       | 67,500   | 23.5  | 58,300   | 20.5  | 48,700   | 18.5  |
| 204    | 5,750               | 1 68                   |  |       |  |       |  |       |  |       | 75,600   | 29    | 68,700   | 25    | 57,500   | 23    |
| 213    | 6,000               | 1 83                   |  |       |  |       |  |       |  |       |  |       | 74,000   | 31    | 66,000   | 28    |
| 222    | 6,250               | 1 99                   |  |       |  |       |  |       |  |       |  |       | 82,900   | 37    | 74,700   | 34    |
| 230    | 6,500               | 2 15                   |  |       |  |       |  |       |  |       |  |       |  |       | 82,400   | 40    |
| 239    | 6,750               | 2 32                   |  |       |  |       |  |       |  |       |  |       |  |       | 90,800   | 48    |

## 120" Sturtevant Cone Fan

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances.

| R.P.M. | Tip Speed<br>F.P.M. | S.N.D.<br>in<br>inches | Volume<br>C.F.M.   | H. P. | Volume<br>C.F.M.   | H. P. | Volume<br>C.F.M.   | H. P. | Volume<br>C.F.M.   | H. P. | Volume<br>C.F.M.   | H. P. | Volume<br>C.F.M.   | H. P. | Volume<br>C.F.M.   | H. P. |
|--------|---------------------|------------------------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|
|        |                     |                        | Static Pressure<br>1/4" Water<br>.145 ozs. per<br>sq. inch |       | Static Pressure<br>3/8" Water<br>.217 ozs. per<br>sq. inch |       | Static Pressure<br>1/2" Water<br>.289 ozs. per<br>sq. inch |       | Static Pressure<br>5/8" Water<br>.361 ozs. per<br>sq. inch |       | Static Pressure<br>3/4" Water<br>.434 ozs. per<br>sq. inch |       | Static Pressure<br>7/8" Water<br>.506 ozs. per<br>sq. inch |       | Static Pressure<br>1" Water<br>.578 ozs. per<br>sq. inch |       |
| 76     | 2,400               | 0 293                  | 13,900   | 1.70  |  |       |  |       |  |       |  |       |  |       |  |       |
| 83     | 2,600               | 0 344                  | 23,600   | 2.30  |  |       |  |       |  |       |  |       |  |       |  |       |
| 89     | 2,800               | 0 399                  | 32,600   | 3.15  |  |       |  |       |  |       |  |       |  |       |  |       |
| 96     | 3,000               | 0 457                  | 41,200   | 4.35  | 20,200   | 3.4   |  |       |  |       |  |       |  |       |  |       |
| 102    | 3,200               | 0 520                  | 49,400   | 5.8   | 29,400   | 4.3   |  |       |  |       |  |       |  |       |  |       |
| 108    | 3,400               | 0 587                  |  |       | 38,600   | 5.5   | 20,100   | 4.8   |  |       |  |       |  |       |  |       |
| 115    | 3,600               | 0 658                  |  |       | 47,300   | 7.2   | 29,400   | 5.9   |  |       |  |       |  |       |  |       |
| 121    | 3,800               | 0 734                  |  |       | 55,500   | 9.2   | 39,200   | 7.4   | 22,500   | 6.7   |  |       |  |       |  |       |
| 127    | 4,000               | 0 814                  |  |       | 63,500   | 11.5  | 47,800   | 9.3   | 31,800   | 8.1   |  |       |  |       |  |       |
| 134    | 4,200               | 0 898                  |  |       |  |       | 56,000   | 11.5  | 40,800   | 9.8   | 26,700   | 8.7   |  |       |  |       |
| 140    | 4,400               | 0 985                  |  |       |  |       | 64,600   | 14.5  | 50,300   | 12.0  | 35,700   | 11.0  |  |       |  |       |
| 146    | 4,600               | 1 075                  |  |       |  |       | 72,400   | 17.5  | 59,000   | 14.5  | 44,600   | 13.0  | 31,300   | 12    |  |       |
| 153    | 4,800               | 1 17                   |  |       |  |       |  |       | 67,600   | 18.0  | 54,300   | 15.5  | 40,800   | 14    | 27,800   | 13.5  |
| 159    | 5,000               | 1 27                   |  |       |  |       |  |       | 75,300   | 21.5  | 62,900   | 18.5  | 50,200   | 17    | 37,200   | 15.5  |
| 167    | 5,250               | 1 40                   |  |       |  |       |  |       | 85,800   | 27    | 74,000   | 21    | 61,700   | 21    | 49,400   | 19    |
| 175    | 5,500               | 1 54                   |  |       |  |       |  |       |  |       | 83,900   | 29    | 72,400   | 26    | 60,500   | 23    |
| 183    | 5,750               | 1 68                   |  |       |  |       |  |       |  |       | 94,000   | 36    | 82,900   | 32    | 71,500   | 29    |
| 191    | 6,000               | 1 83                   |  |       |  |       |  |       |  |       |  |       | 92,800   | 38    | 81,000   | 35    |
| 199    | 6,250               | 1 99                   |  |       |  |       |  |       |  |       |  |       | 103,000  | 46    | 92,700   | 42    |
| 207    | 6,500               | 2 15                   |  |       |  |       |  |       |  |       |  |       |  |       | 102,000  | 50    |
| 215    | 6,750               | 2 32                   |  |       |  |       |  |       |  |       |  |       |  |       | 113,000  | 60    |



## 144" Sturtevant Cone Fan

**When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances.**

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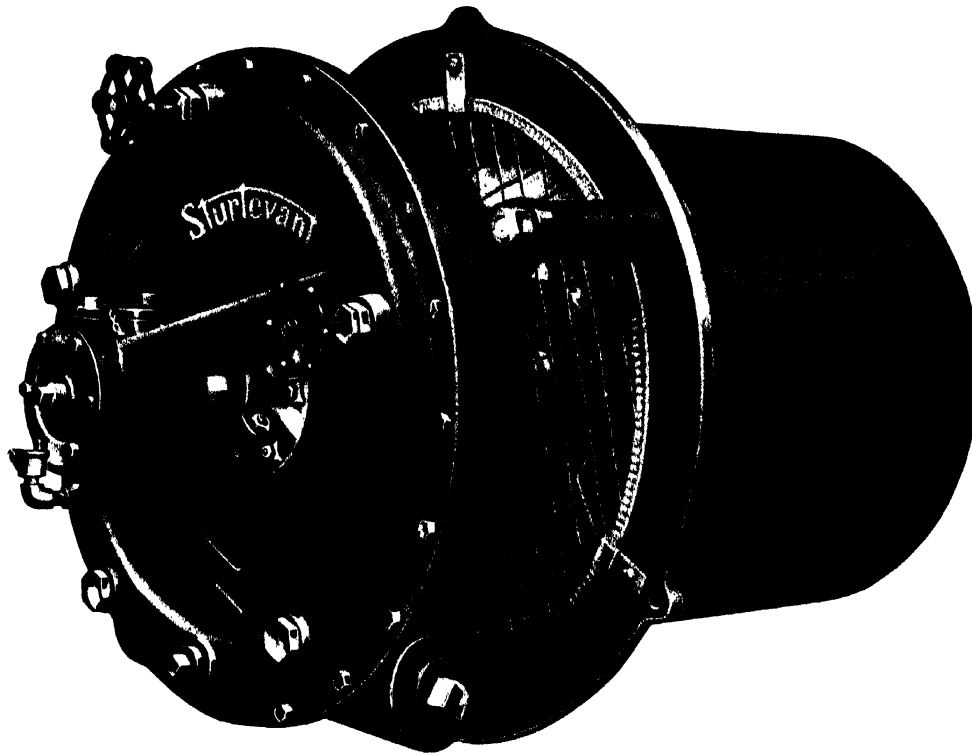
# **TURBO-UNDERGRATE BLOWERS**

## **Design 3**

**Dimensions, Capacities, Horse Powers**



## Turbo Undergrate Blower—Design 3



Sturtevant Turbo Undergrate Blower — Design No. 3  
This machine may be equipped with more hand controlled nozzles if desired

# **TURBO-UNDERGRATE BLOWER**

## **Design 3**

### **SPECIFICATIONS**

**General.** There shall be furnished a No.....Design 3 Sturtevant Turbo-Undergrate Blower. The fan wheel shall be not less than.....inches diameter, and the inside diameter of the thimble shall be.....inches. Blower shall have a capacity of ..... cubic feet per minute against a resistance..... inch water gauge and shall operate at approximately..... R. P. M., and require approximately..... B. H. P.

**Thimble.** The thimble shall be of cast iron and shall have the end at which the air enters curved so as to offer no sharp angle to the entering air.

**Fan Wheel.** The fan wheel shall be of the disc type of sheet aluminum blades, riveted to a bronze hub with hard-drawn copper rivets. The hub shall be accurately machined, and the wheel shall be overhung on the extended turbine shaft.

**Turbine.** The turbine shall be of the single pressure multi-velocity type, and the casing shall be provided with inspection holes fitted with removable plugs. The wheel shall be one solid forging with the buckets milled in the rim. Three reversing buckets shall be cast in one piece with the nozzle. Individual hand-operated nozzle control valves shall be provided. The set shall be furnished with a floating stuffing box, and on the shaft outside the stuffing box there shall be a water deflector.

**Bearings.** The bearings shall be oil-ring lubricated with journal bushings of bronze, and wrought-iron overflows. Oil gauges shall be provided.

## **Turbo-Undergrate Blower**

### **EXPLANATION OF TABLES**

These blowers are primarily intended to create a pressure in the ash pit of boilers or other furnaces.

The capacities are, therefore, measured with blower discharging into a closed plenum space, the maintained resistance being the static pressure in that space.

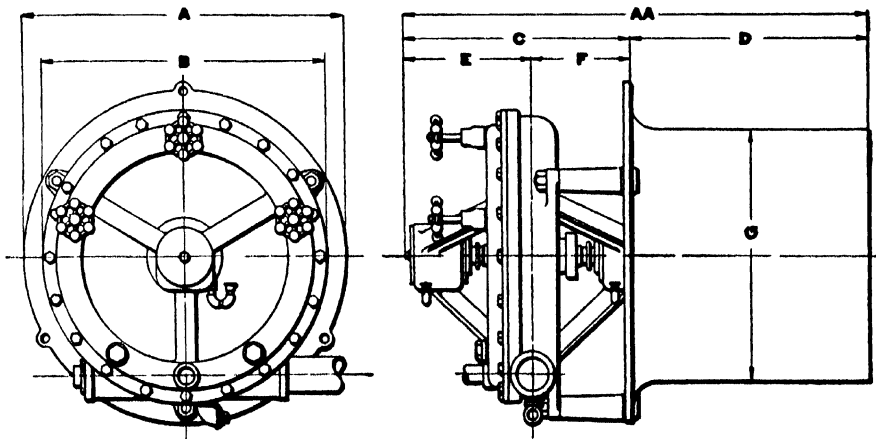
For further information as to the basis of the following tables see the general explanation of tables at the front of this book.

## **Turbo-Undergrate Blower Design 3**

### **APPROXIMATE WEIGHTS**

| <b>Size</b> | <b>Net Weight</b> |
|-------------|-------------------|
| 14          | 400               |
| 18          | 420               |
| 22          | 455               |
| 26          | 515               |

## Turbo-Undergrate Blower—Design 3



| Size | A   | B   | C   | D   | E | F  | G   | AA  |
|------|-----|-----|-----|-----|---|----|-----|-----|
| 14   | 24  | 21½ | 16½ | 17½ | 9 | 7½ | 15½ | 33½ |
| 18   | 24  | 21½ | 16½ | 17½ | 9 | 7½ | 18½ | 33½ |
| 22   | 24  | 21½ | 16½ | 17½ | 9 | 7½ | 21½ | 33½ |
| 26   | 31½ | 21½ | 16½ | 17½ | 9 | 7½ | 27½ | 33½ |





**When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances**

801

**When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances**

**When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances**

802

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

803



# **STURTEVANT PROPELLER FANS**

**Pulley and Electric Drive**

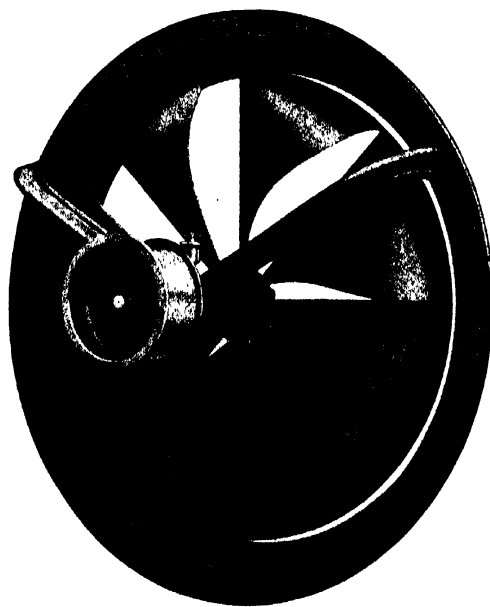
**Dimensions, Capacities, Horse Powers**

## Sturtevant Electric Propeller Fan



Sturtevant Electric Propeller Fan

## Sturtevant Pulley Propeller Fan



Sturtevant Pulley Propeller Fan



# **STURTEVANT PROPELLER FAN**

## **SPECIFICATIONS**

There shall be furnished a Sturtevant.....  
inch Propeller Fan. The total length of the fan in  
the direction of the shaft shall be.....inches  
and the total overall diameter.....inches. The  
fan shall have a capacity of.....cubic feet  
per minute and shall operate at approximately  
..... R. P. M., requiring approximately.....  
B. H. P.

The thimble shall be made of cast iron in sizes  
up to and including 42-inch and of steel plate in  
larger sizes. There shall be bolted to the flange  
of the thimble three arms to support the motor  
and the fan wheel, which latter shall be overhung  
on the extended motor shaft.

Motor shall be built to operate on .....cur-  
rent, .....volts, .....cycles, .....  
phase.

## **Sturtevant Propeller Fan**

### **EXPLANATION OF TABLES**

These fans are not usually applied in connection with piping systems because they are not efficient where a large component of the pressure is static.

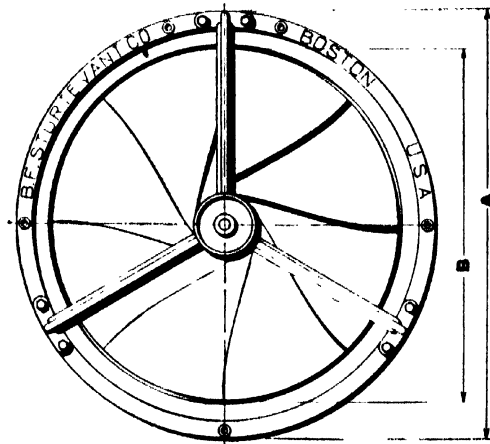
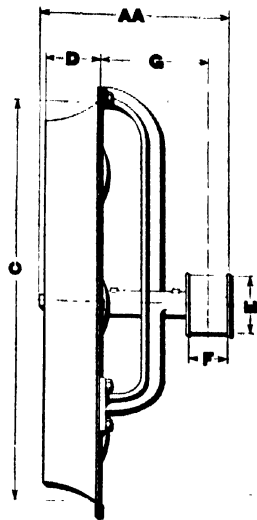
Capacities are therefore measured with fan discharging into a plenum space, the maintained resistance being the static pressure in that space.

## Sturtevant Propeller Fan

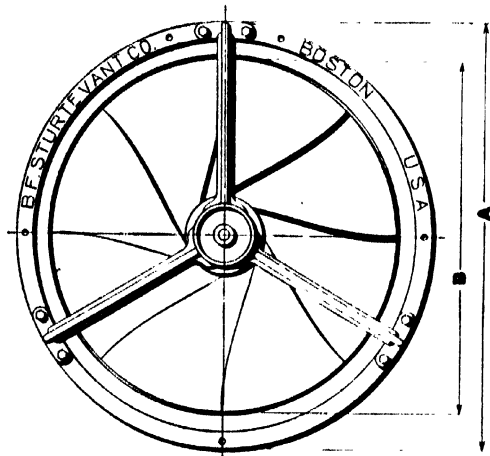
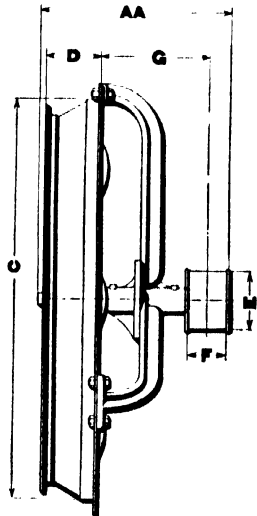
### APPROXIMATE WEIGHTS

| Size | Pulley | Direct Current | Alternating Current |
|------|--------|----------------|---------------------|
| 18   | 60     | 115            | 175                 |
| 24   | 125    | 230            | 250                 |
| 30   | 160    | 330            | 400                 |
| 36   | 226    | 440            | 500                 |
| 42   | 400    | 760            |                     |
| 48   | 465    | 925            |                     |
| 54   | 600    | 900            |                     |
| 60   | 675    | 1000           |                     |
| 66   | 720    |                |                     |
| 72   | 950    |                |                     |
| 78   | 1050   |                |                     |
| 84   | 1125   |                |                     |
| 96   | 1375   |                |                     |
| 108  | 1700   |                |                     |
| 120  | 2000   |                |                     |

# Sturtevant Pulley Propeller Fan



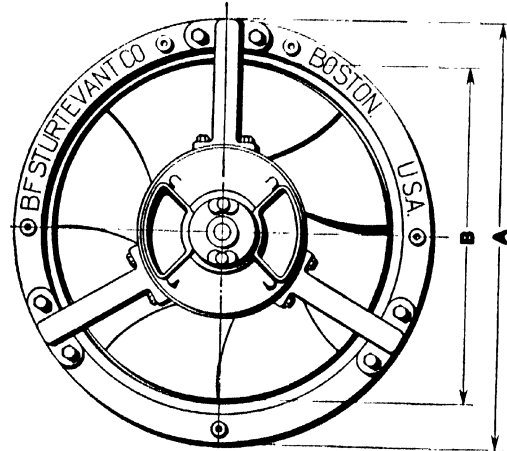
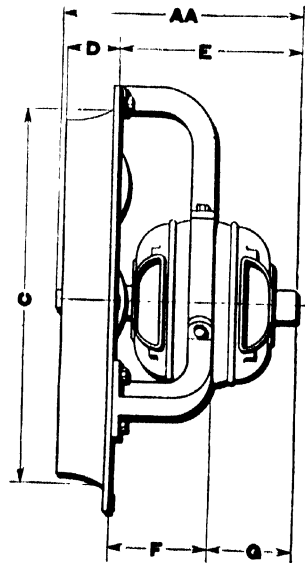
| Size | A                | B                | C                | D               | E | F               | G                | AA               | Shaft Diameter | Anchor Bolts    |
|------|------------------|------------------|------------------|-----------------|---|-----------------|------------------|------------------|----------------|-----------------|
| 18   | 23 $\frac{1}{2}$ | 18               | 19 $\frac{1}{2}$ | 3 $\frac{1}{2}$ | 4 | 2 $\frac{1}{2}$ | 6 $\frac{1}{2}$  | 11 $\frac{1}{2}$ | $\frac{3}{4}$  | 7 $\frac{1}{2}$ |
| 21   | 31               | 23 $\frac{1}{2}$ | 27               | 4 $\frac{1}{2}$ | 5 | 2 $\frac{1}{2}$ | 6 $\frac{1}{2}$  | 12 $\frac{1}{2}$ | $\frac{7}{8}$  | 7 $\frac{1}{2}$ |
| 30   | 38               | 30               | 33               | 4 $\frac{1}{2}$ | 6 | 3 $\frac{1}{2}$ | 8 $\frac{1}{2}$  | 15 $\frac{1}{2}$ | $\frac{1}{2}$  | 9 $\frac{1}{2}$ |
| 36   | 41               | 36               | 39               | 5 $\frac{1}{2}$ | 7 | 4 $\frac{1}{2}$ | 11 $\frac{1}{2}$ | 19 $\frac{1}{2}$ | $\frac{1}{2}$  | 9 $\frac{1}{2}$ |
| 42   | 52 $\frac{1}{2}$ | 42               | 45 $\frac{1}{2}$ | 6 $\frac{1}{2}$ | 8 | 5 $\frac{1}{2}$ | 12 $\frac{1}{2}$ | 21 $\frac{1}{2}$ | $\frac{1}{2}$  | 8 $\frac{1}{2}$ |



| Size | A                 | B   | C                 | D               | E  | F               | G                | AA               | Shaft Diameter  | Anchor Bolts    |
|------|-------------------|-----|-------------------|-----------------|----|-----------------|------------------|------------------|-----------------|-----------------|
| 48   | 58                | 48  | 53 $\frac{1}{2}$  | 7 $\frac{1}{2}$ | 8  | 5 $\frac{1}{2}$ | 13 $\frac{1}{2}$ | 24 $\frac{1}{2}$ | 1 $\frac{1}{2}$ | 8 $\frac{1}{2}$ |
| 54   | 64 $\frac{1}{2}$  | 54  | 60                | 8 $\frac{1}{2}$ | 9  | 5 $\frac{1}{2}$ | 15 $\frac{1}{2}$ | 27               | 1 $\frac{1}{2}$ | 8 $\frac{1}{2}$ |
| 60   | 71                | 60  | 64 $\frac{1}{2}$  | 9 $\frac{1}{2}$ | 10 | 6 $\frac{1}{2}$ | 16               | 29 $\frac{1}{2}$ | 1 $\frac{1}{2}$ | 8 $\frac{1}{2}$ |
| 66   | 77 $\frac{1}{2}$  | 66  | 71 $\frac{1}{2}$  | 10              | 10 | 6 $\frac{1}{2}$ | 18               | 31 $\frac{1}{2}$ | 1 $\frac{1}{2}$ | 8 $\frac{1}{2}$ |
| 72   | 84                | 72  | 77 $\frac{1}{2}$  | 11              | 12 | 7 $\frac{1}{2}$ | 18 $\frac{1}{2}$ | 33 $\frac{1}{2}$ | 1 $\frac{1}{2}$ | 8 $\frac{1}{2}$ |
| 78   | 90 $\frac{1}{2}$  | 78  | 84 $\frac{1}{2}$  | 12              | 14 | 8 $\frac{1}{2}$ | 19 $\frac{1}{2}$ | 35 $\frac{1}{2}$ | 1 $\frac{1}{2}$ | 8 $\frac{1}{2}$ |
| 84   | 98 $\frac{1}{2}$  | 84  | 90 $\frac{1}{2}$  | 13              | 14 | 8 $\frac{1}{2}$ | 21 $\frac{1}{2}$ | 38 $\frac{1}{2}$ | 2 $\frac{1}{2}$ | 1 $\frac{1}{2}$ |
| 96   | 111 $\frac{1}{2}$ | 96  | 103 $\frac{1}{2}$ | 15              | 16 | 8 $\frac{1}{2}$ | 21 $\frac{1}{2}$ | 40 $\frac{1}{2}$ | 2 $\frac{1}{2}$ | 1 $\frac{1}{2}$ |
| 108  | 125               | 108 | 115 $\frac{1}{2}$ | 17              | 18 | 8 $\frac{1}{2}$ | 23 $\frac{1}{2}$ | 44 $\frac{1}{2}$ | 2 $\frac{1}{2}$ | 1 $\frac{1}{2}$ |
| 120  | 138               | 120 | 128 $\frac{1}{2}$ | 19              | 20 | 8 $\frac{1}{2}$ | 23 $\frac{1}{2}$ | 47 $\frac{1}{2}$ | 2 $\frac{1}{2}$ | 1 $\frac{1}{2}$ |

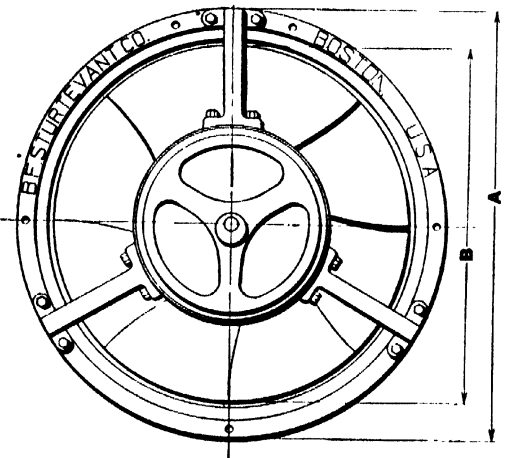
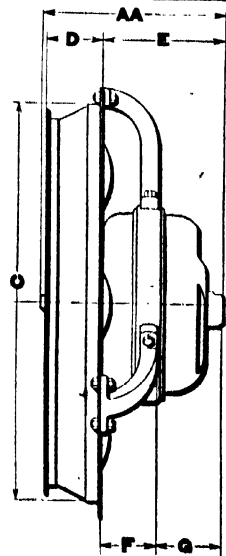
# Sturtevant Electric Propeller Fan—Medium Speed

Sturtevant Direct Current Motor



Cast-Iron Thimble

| Size | Motor   | A                | B                | C                | D               | E                 | F                 | G                 | AA                | Shaft Diameter  | Anchor Bolts |
|------|---------|------------------|------------------|------------------|-----------------|-------------------|-------------------|-------------------|-------------------|-----------------|--------------|
| 18   | 1 E. B. | 23 $\frac{1}{4}$ | 18               | 19 $\frac{1}{4}$ | 3 $\frac{1}{4}$ | 10 $\frac{7}{8}$  | 5 $\frac{1}{4}$   | 5                 | 11 $\frac{3}{16}$ | 1               | 1            |
| 21   | 1 E. B. | 31               | 23 $\frac{3}{4}$ | 27               | 4 $\frac{1}{4}$ | 9 $\frac{7}{8}$   | 4 $\frac{1}{4}$   | 5                 | 11 $\frac{3}{16}$ | 1               | 1            |
| 30   | 1 E. B. | 38               | 30               | 33               | 4 $\frac{1}{4}$ | 11 $\frac{1}{16}$ | 8                 | 6 $\frac{5}{16}$  | 19 $\frac{1}{8}$  | 1               | 1            |
| 36   | 1 E. B. | 44               | 36               | 39               | 5 $\frac{1}{2}$ | 17                | 9 $\frac{9}{16}$  | 7 $\frac{7}{16}$  | 22 $\frac{9}{16}$ | 1               | 1            |
| 42   | 2 E. B. | 52 $\frac{1}{2}$ | 42               | 45 $\frac{1}{2}$ | 6 $\frac{1}{2}$ | 19 $\frac{1}{2}$  | 10 $\frac{7}{16}$ | 9 $\frac{1}{16}$  | 26 $\frac{1}{16}$ | 1 $\frac{1}{8}$ | 1            |
| 48   | 3 E. B. | 59               | 48               | 52               | 7 $\frac{1}{2}$ | 21 $\frac{1}{2}$  | 11 $\frac{1}{16}$ | 10 $\frac{1}{16}$ | 29 $\frac{1}{2}$  | 1 $\frac{1}{4}$ | 1            |
| 54   | 5 E. B. | 65 $\frac{1}{2}$ | 54               | 58 $\frac{1}{2}$ | 8 $\frac{1}{2}$ | 25 $\frac{1}{2}$  | 13 $\frac{1}{4}$  | 11 $\frac{1}{2}$  | 33 $\frac{3}{8}$  | 1 $\frac{1}{2}$ | 1            |

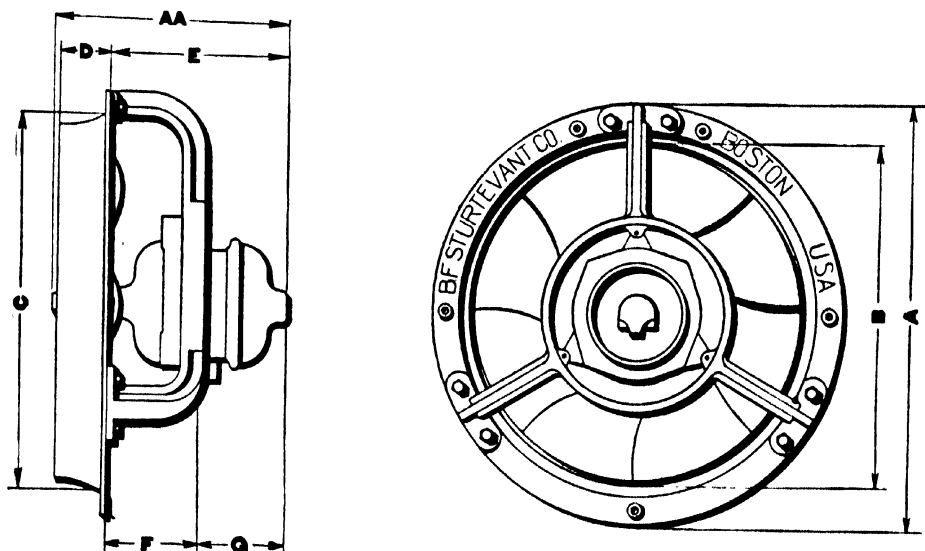


Steel-Plate Thimble

| Size | Motor              | A                | B  | C                | D               | E                | F               | G               | AA               | Shaft Diameter  | Anchor Bolts |
|------|--------------------|------------------|----|------------------|-----------------|------------------|-----------------|-----------------|------------------|-----------------|--------------|
| 60   | 1 C.               | 71               | 60 | 64 $\frac{1}{2}$ | 9 $\frac{1}{4}$ | 16 $\frac{1}{4}$ | 7 $\frac{3}{4}$ | 8 $\frac{1}{4}$ | 26 $\frac{1}{4}$ | 1 $\frac{1}{8}$ | 1            |
| 66   | 1 C.               | 77 $\frac{1}{2}$ | 66 | 71 $\frac{1}{4}$ | 10              | 16 $\frac{1}{2}$ | 7 $\frac{3}{4}$ | 8 $\frac{1}{2}$ | 26 $\frac{1}{2}$ | 1 $\frac{1}{8}$ | 1            |
| 72   | 1 C.               | 84               | 72 | 77 $\frac{1}{2}$ | 11              | 15 $\frac{1}{2}$ | 7 $\frac{3}{4}$ | 8 $\frac{1}{2}$ | 27               | 1 $\frac{1}{8}$ | 1            |
| 78   | 1 C.               | 90 $\frac{1}{4}$ | 78 | 84 $\frac{1}{4}$ | 12              | 14 $\frac{1}{2}$ | 5 $\frac{1}{2}$ | 8 $\frac{1}{2}$ | 26 $\frac{1}{2}$ | 1 $\frac{1}{8}$ | 1            |
| 84   | 1 $\frac{1}{2}$ C. | 98 $\frac{1}{2}$ | 84 | 90 $\frac{1}{2}$ | 13              | 15 $\frac{1}{2}$ | 6 $\frac{1}{2}$ | 8 $\frac{1}{2}$ | 28 $\frac{1}{2}$ | 2 $\frac{1}{8}$ | 1            |

# Sturtevant Electric Propeller Fan

Alternating Current Motor



## Single Phase

| Fan Size | A   | B   | C   | D  | E   | F      | G      | AA  | Shaft Dia. | Anchor Bolts |
|----------|-----|-----|-----|----|-----|--------|--------|-----|------------|--------------|
| 18       | 23½ | 18  | 19½ | 3½ | 8½  | 4 1/16 | 4 1/16 | 11½ | 1          | 1            |
| 24       | 31  | 23½ | 27  | 4½ | 10½ | 4 1/16 | 6 1/16 | 15  | 1          | 1            |
| 30       | 38  | 30  | 33  | 4½ | 13½ | 5½     | 7½     | 18½ | 1          | 1            |
| 36       | 44  | 36  | 39  | 5½ | 15½ | 6 1/16 | 9½     | 21½ | 1½         | 1            |
| 42       | 52½ | 42  | 45½ | 6½ | 16½ | 7½     | 9½     | 23½ | 1½         | 1            |
| 48       | 59  | 52  | 52  | 7½ | 17½ | 7½     | 10½    | 25½ | 1½         | 1            |
| 54       | 65½ | 54  | 58½ | 8½ | 18½ | 7½     | 10½    | 27½ | 1½         | 1            |

## Two and Three Phase

| Fan Size | A   | B   | C   | E  | F   | F      | G      | AA  | Shaft Dia. | Anchor Bolts |
|----------|-----|-----|-----|----|-----|--------|--------|-----|------------|--------------|
| 18       | 23½ | 18  | 19½ | 3½ | 8½  | 4 1/16 | 4 1/16 | 11½ | 1          | 1            |
| 24       | 31  | 23½ | 27  | 4½ | 10½ | 4 1/16 | 5 1/16 | 14½ | 1          | 1            |
| 30       | 38  | 30  | 33  | 4½ | 11½ | 4½     | 6 1/16 | 16½ | 1          | 1            |
| 36       | 44  | 36  | 39  | 5½ | 13½ | 5½     | 8½     | 19½ | 1½         | 1            |
| 42       | 52½ | 42  | 45½ | 6½ | 16½ | 7½     | 9½     | 25½ | 1½         | 1            |
| 48       | 59  | 48  | 52  | 7½ | 15½ | 6½     | 9½     | 23½ | 1½         | 1            |
| 54       | 65½ | 54  | 58½ | 8½ | 16½ | 7½     | 10     | 25½ | 1½         | 1            |
| 60       | 71  | 60  | 64½ | 9½ | 15½ | 5½     | 9½     | 25½ | 1½         | 1            |

## 18" Sturtevant Propeller Fan

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Room Resistances.  
Volumes Measured by Anemometer Through Rectangular Opening in Wall. Co-efficient .82

| R.P.M. | Tip Speed F.P.M. | S.N.D. in Inches | Volume C.F.M. H. P.            | Volume C.F.M. H. P.                                | Volume C.F.M. H. P.                               | Volume C.F.M. H. P.                               | Volume C.F.M. H. P.                             | Volume C.F.M. H. P.                                 | Volume C.F.M. H. P.                                 | Volume C.F.M. H. P.                                 |
|--------|------------------|------------------|--------------------------------|--|---|---|---|---|---|---|
|        |                  |                  | Static Pressure Free Discharge | Static Pressure 1/4" Water .0722 ozs. per sq. inch | Static Pressure 1/2" Water .145 ozs. per sq. inch | Static Pressure 3/4" Water .217 ozs. per sq. inch | Static Pressure 1" Water .289 ozs. per sq. inch | Static Pressure 1 1/4" Water .364 ozs. per sq. inch | Static Pressure 1 1/2" Water .434 ozs. per sq. inch | Static Pressure 1 3/4" Water .578 ozs. per sq. inch |
| 467    | 2200             | 0 168            | 1,030 0 0075                   | 256 0 030  |   |   |   |   |   |   |
| 508    | 2400             | 0 200            | 1,130 0 0095                   | 301 0 033  |   |   |   |   |   |   |
| 552    | 2600             | 0 234            | 1,220 0 012                    | 505 0 038  |   |   |   |   |   |   |
| 595    | 2800             | 0 272            | 1,310 0 015                    | 619 0 042  |   |   |   |   |   |   |
| 637    | 3000             | 0 313            | 1,400 0 019                    | 717 0 047  | 276 0 080   |   |   |   |   |   |
| 680    | 3200             | 0 355            | 1,500 0 025                    | 819 0 052  | 425 0 089   |   |   |   |   |   |
| 722    | 3400             | 0 400            | 1,590 0 027                    | 920 0 058  | 552 0 095   |   |   |   |   |   |
| 765    | 3600             | 0 450            | 1,680 0 032                    | 1,020 0 064  | 669 0 105   |   |   |   |   |   |
| 807    | 3800             | 0 500            | 1,780 0 038                    | 1,110 0 070  | 779 0 110   | 437 0 155   |   |   |   |   |
| 850    | 4000             | 0 555            | 1,880 0 044                    | 1,220 0 079  | 883 0 115   | 573 0 165   |   |   |   |   |
| 892    | 4200             | 0 612            | 1,970 0 051                    | 1,320 0 088  | 987 0 130   | 705 0 180   | 357 0 225                                       |   |   |   |
| 935    | 4400             | 0 671            | 2,060 0 059                    | 1,400 0 095  | 1,090 0 140                                       | 815 0 190   | 514 0 240                                       |   |   |   |
| 974    | 4600             | 0 735            | 2,160 0 067                    |  | 1,190 0 150                                       | 928 0 200   | 650 0 255                                       |   |   |   |
| 1020   | 4800             | 0 798            | 2,260 0 076                    |  | 1,300 0 160                                       | 1,040 0 215                                       | 781 0 270                                       |   |   |   |
| 1060   | 5000             | 0 868            | 2,340 0 086                    |  | 1,400 0 175                                       | 1,150 0 230                                       | 890 0 285                                       |   |   |   |
| 1114   | 5250             | 0 957            | 2,470 0 099                    |  | 1,530 0 195                                       | 1,270 0 250                                       | 1,010 0 300                                     | 520 0 420   |   |   |
| 1169   | 5500             | 1 05             | 2,580 0 115                    |  | 1,650 0 21  | 1,390 0 265                                       | 1,165 0 330                                     | 700 0 450   |   |   |
| 1220   | 5750             | 1 15             | 2,700 0 130                    |  | 1,770 0 23  | 1,520 0 285                                       | 1,300 0 350                                     | 865 0 475   |   |   |
| 1273   | 6000             | 1 25             | 2,820 0 150                    |  | 1,890 0 25  | 2,650 0 310                                       | 1,430 0 370                                     | 1,025 0 51  | 550 0 61  |   |
| 1328   | 6250             | 1 36             | 2,930 0 165                    |  | 1,999 0 27  | 1,770 0 335                                       | 1,550 0 400                                     | 1,160 0 54  | 710 0 68  |   |
| 1380   | 6500             | 1 46             | 3,050 0 190                    |  |   | 1,890 0 355                                       | 1,690 0 430                                     | 1,310 0 57  | 920 0 72  |   |
| 1433   | 6750             | 1 58             | 3,160 0 210                    |  |   | 2,020 0 39  | 1,810 0 455                                     | 1,430 0 60  | 1,070 0 75  |   |
| 1485   | 7000             | 1 7              | 3,280 0 235                    |  |   | 2,130 0 42  | 1,930 0 485                                     | 1,570 0 64  | 1,240 0 8   |   |

## 24" Sturtevant Propeller Fan

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Room Resistances.  
Volumes Measured by Anemometer Through Rectangular Opening in Wall. Co-efficient .82

| R.P.M. | Tip Speed F.P.M. | S.N.D. in Inches | Static Pressure Free Discharge | Static Pressure 1/4" Water .0722 ozs. per sq. inch | Static Pressure 1/2" Water .145 ozs. per sq. inch | Static Pressure 3/4" Water .217 ozs. per sq. inch | Static Pressure 1" Water .289 ozs. per sq. inch | Static Pressure 1 1/4" Water .364 ozs. per sq. inch | Static Pressure 1 1/2" Water .434 ozs. per sq. inch | Static Pressure 1 3/4" Water .578 ozs. per sq. inch |
|--------|------------------|------------------|--------------------------------|--|---|---|---|---|---|---|
| 351    | 2200             | 0 168            | 1,840 0 013                    | 456 0 053  |   |   |   |   |   |   |
| 382    | 2400             | 0 200            | 2,000 0 017                    | 695 0 059  |   |   |   |   |   |   |
| 415    | 2600             | 0 234            | 2,170 0 021                    | 809 0 067  |   |   |   |   |   |   |
| 446    | 2800             | 0 272            | 2,340 0 027                    | 1,100 0 075  |   |   |   |   |   |   |
| 478    | 3000             | 0 313            | 2,500 0 033                    | 1,270 0 083  | 490 0 140   |   |   |   |   |   |
| 508    | 3200             | 0 355            | 2,670 0 040                    | 1,460 0 092  | 755 0 155   |   |   |   |   |   |
| 541    | 3400             | 0 400            | 2,830 0 048                    | 1,630 0 100  | 900 0 170   |   |   |   |   |   |
| 575    | 3600             | 0 450            | 3,000 0 057                    | 1,810 0 115  | 1,190 0 185                                       |   |   |   |   |   |
| 605    | 3800             | 0 500            | 3,170 0 067                    | 1,970 0 125  | 1,380 0 195                                       | 776 0 275   |   |   |   |   |
| 637    | 4000             | 0 555            | 3,340 0 078                    | 2,160 0 140  | 1,570 0 205                                       | 1,020 0 295                                       |   |   |   |   |
| 670    | 4200             | 0 612            | 3,500 0 090                    | 2,350 0 155  | 1,750 0 230                                       | 1,250 0 320                                       | 635 0 400                                       |   |   |   |
| 700    | 4400             | 0 674            | 3,670 0 105                    | 2,490 0 17   | 1,940 0 250                                       | 1,450 0 335                                       | 913 0 425                                       |   |   |   |
| 734    | 4600             | 0 735            | 3,840 0 120                    |  | 2,120 0 270                                       | 1,650 0 355                                       | 1,100 0 455                                     |   |   |   |
| 765    | 4800             | 0 798            | 4,010 0 135                    |  | 2,310 0 290                                       | 1,840 0 38  | 1,390 0 475                                     |   |   |   |
| 796    | 5000             | 0 868            | 4,170 0 150                    |  | 2,480 0 310                                       | 2,040 0 41  | 1,580 0 50                                      |   |   |   |
| 836    | 5250             | 0 957            | 4,390 0 175                    |  | 2,720 0 345                                       | 2,260 0 44  | 1,850 0 54                                      | 924 0 74  |   |   |
| 876    | 5500             | 1 05             | 4,590 0 200                    |  | 2,920 0 370                                       | 2,470 0 47  | 2,080 0 58                                      | 1,240 0 80  |   |   |
| 916    | 5750             | 1 15             | 4,800 0 230                    |  | 3,140 0 410                                       | 2,710 0 51  | 2,320 0 62                                      | 1,540 0 84  |   |   |
| 956    | 6000             | 1 25             | 5,020 0 265                    |  | 3,360 0 445                                       | 2,940 0 55  | 2,540 0 66                                      | 1,830 0 90  | 980 1 15  |   |
| 996    | 6250             | 1 36             | 5,220 0 300                    |  | 3,540 0 485                                       | 3,140 0 59  | 2,750 0 71                                      | 2,060 0 96  | 1,320 1 20  |   |
| 1035   | 6500             | 1 46             | 5,430 0 335                    |  |   | 3,370 0 63  | 3,000 0 76                                      | 2,330 1 00  | 1,630 1 30  |   |
| 1074   | 6750             | 1 58             | 5,630 0 375                    |  |   | 3,580 0 69  | 3,220 0 81                                      | 2,540 1 05  | 1,910 1 35  |   |
| 1114   | 7000             | 1 7              | 5,840 0 42                     |  |   | 3,790 0 74  | 3,430 0 88                                      | 2,900 1 15  | 2,200 1 4   |   |

## 30" Sturtevant Propeller Fan

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Room Resistances.  
Volumes Measured by Anemometer Through Rectangular Opening in Wall. Co-efficient .82

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.                  | H. P. | Volume C.F.M.                                      | H. P. | Volume C.F.M.                                     | H. P. | Volume C.F.M.                                     | H. P. | Volume C.F.M.                                     | H. P. | Volume C.F.M.                                     | H. P. | Volume C.F.M.                                   | H. P. |
|--------|------------------|------------------|--------------------------------|-------|--|-------|---|-------|---|-------|---|-------|---|-------|---|-------|
|        |                  |                  | Static Pressure Free Discharge |       | Static Pressure 1/4" Water .0722 ozs. per sq. inch |       | Static Pressure 1/4" Water .145 ozs. per sq. inch |       | Static Pressure 3/8" Water .217 ozs. per sq. inch |       | Static Pressure 1/2" Water .289 ozs. per sq. inch |       | Static Pressure 3/4" Water .434 ozs. per sq. inch |       | Static Pressure 1" Water .578 ozs. per sq. inch |       |
| 280    | 2200             | 0 168            | 2,860                          | 0 020 | 710  | 0 083 |   |       |   |       |   |       |   |       |   |       |
| 306    | 2400             | 0 200            | 3,130                          | 0 026 | 1,090  | 0 093 |   |       |   |       |   |       |   |       |   |       |
| 330    | 2600             | 0 234            | 3,380                          | 0 033 | 1,400  | 0 105 |   |       |   |       |   |       |   |       |   |       |
| 356    | 2800             | 0 272            | 3,640                          | 0 042 | 1,700  | 0 115 |   |       |   |       |   |       |   |       |   |       |
| 382    | 3000             | 0 313            | 3,900                          | 0 051 | 1,970  | 0 130 | 965   | 0 220 |   |       |   |       |   |       |   |       |
| 408    | 3200             | 0 355            | 4,170                          | 0 062 | 2,270  | 0 145 | 1,180   | 0 245 |   |       |   |       |   |       |   |       |
| 433    | 3400             | 0 400            | 4,430                          | 0 075 | 2,550  | 0 160 | 1,530   | 0 260 |   |       |   |       |   |       |   |       |
| 459    | 3600             | 0 450            | 4,680                          | 0 089 | 2,830  | 0 180 | 1,850   | 0 285 |   |       |   |       |   |       |   |       |
| 485    | 3800             | 0 500            | 4,950                          | 0 105 | 3,080  | 0 195 | 2,160   | 0 305 | 1,230   | 0 435 |   |       |   |       |   |       |
| 510    | 4000             | 0 555            | 5,210                          | 0 120 | 3,370  | 0 220 | 2,460   | 0 325 | 1,590   | 0 461 |   |       |   |       |   |       |
| 535    | 4200             | 0 612            | 5,470                          | 0 140 | 3,680  | 0 245 | 2,740   | 0 360 | 2,060   | 0 495 | 993   | 0 63  |   |       |   |       |
| 560    | 4400             | 0 671            | 5,720                          | 0 160 | 3,900  | 0 265 | 3,030   | 0 390 | 2,270   | 0 52  | 1,430   | 0 66  |   |       |   |       |
| 585    | 4600             | 0 735            | 6,000                          | 0 185 |  |       | 3,320   | 0 420 | 2,580   | 0 56  | 1,810   | 0 71  |   |       |   |       |
| 611    | 4800             | 0 798            | 6,250                          | 0 210 |  |       | 3,610   | 0 450 | 2,880   | 0 60  | 2,170   | 0 74  |   |       |   |       |
| 636    | 5000             | 0 868            | 6,500                          | 0 240 |  |       | 3,880   | 0 485 | 3,200   | 0 64  | 2,470   | 0 79  |   |       |   |       |
| 669    | 5250             | 0 957            | 6,840                          | 0 275 |  |       | 4,260   | 0 54  | 3,540   | 0 69  | 2,890   | 0 84  | 1,440   | 1 15  |   |       |
| 700    | 5500             | 1 05             | 7,160                          | 0 32  |  |       | 4,570   | 0 58  | 3,870   | 0 74  | 3,240   | 0 91  | 1,950   | 1 25  |   |       |
| 732    | 5750             | 1 15             | 7,490                          | 0 36  |  |       | 4,910   | 0 64  | 4,240   | 0 80  | 3,610   | 0 96  | 2,400   | 1 30  |   |       |
| 765    | 6000             | 1 25             | 7,830                          | 0 41  |  |       | 5,270   | 0 70  | 4,600   | 0 86  | 3,980   | 1 05  | 2,860   | 1 40  | 1,530   | 1 75  |
| 796    | 6250             | 1 36             | 8,140                          | 0 47  |  |       | 5,530   | 0 76  | 4,910   | 0 93  | 4,300   | 1 10  | 3,220   | 1 50  | 2,000   | 1 9   |
| 828    | 6500             | 1 46             | 8,460                          | 0 52  |  |       |   |       | 5,270   | 0 99  | 4,700   | 1 20  | 3,640   | 1 55  | 2,560   | 2 0   |
| 860    | 6750             | 1 58             | 8,790                          | 0 59  |  |       |   |       | 5,600   | 1 10  | 5,050   | 1 25  | 3,980   | 1 65  | 2,940   | 2 1   |
| 891    | 7000             | 1 7              | 9,120                          | 0 65  |  |       |   |       | 5,930   | 1 15  | 5,360   | 1 35  | 4,380   | 1 75  | 3,440   | 2 2   |

## 36" Sturtevant Propeller Fan

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Room Resistances.  
Volumes Measured by Anemometer Through Rectangular Opening in Wall. Co-efficient .82

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure Free Discharge | Static Pressure 1/4" Water .0722 ozs. per sq. inch | Static Pressure 1/4" Water .145 ozs. per sq. inch | Static Pressure 3/8" Water .217 ozs. per sq. inch | Static Pressure 1/2" Water .289 ozs. per sq. inch | Static Pressure 3/4" Water .434 ozs. per sq. inch | Static Pressure 1" Water .578 ozs. per sq. inch |
|--------|------------------|------------------|--------------------------------|--|---|---|---|---|---|
| 233    | 2200             | 0 168            | 4,130                          | 0 029  | 1,025   | 0 120   |   |   |   |
| 255    | 2400             | 0 200            | 4,510                          | 0 038  | 1,560   | 0 135   |   |   |   |
| 276    | 2600             | 0 234            | 4,880                          | 0 048  | 2,020   | 0 150   |   |   |   |
| 297    | 2800             | 0 272            | 5,250                          | 0 060  | 2,480   | 0 170   |   |   |   |
| 318    | 3000             | 0 313            | 5,620                          | 0 074  | 2,870   | 0 185   | 1,100   | 0 320   |   |
| 340    | 3200             | 0 355            | 6,000                          | 0 090  | 3,280   | 0 205   | 1,700   | 0 355   |   |
| 361    | 3400             | 0 400            | 6,360                          | 0 110  | 3,680   | 0 230   | 2,200   | 0 380   |   |
| 382    | 3600             | 0 450            | 6,750                          | 0 130  | 4,070   | 0 255   | 2,670   | 0 410   |   |
| 403    | 3800             | 0 500            | 7,130                          | 0 150  | 4,440   | 0 280   | 3,110   | 0 440   | 1,750 0 63                                      |
| 425    | 4000             | 0 555            | 7,510                          | 0 175  | 4,890   | 0 320   | 3,540   | 0 465   | 2,290 0 66                                      |
| 445    | 4200             | 0 612            | 7,880                          | 0 200  | 5,290   | 0 355   | 3,950   | 0 51  | 2,820 0 72                                      |
| 467    | 4400             | 0 671            | 8,250                          | 0 235  | 5,600   | 0 38  | 4,360   | 0 56  | 3,260 0 75                                      |
| 488    | 4600             | 0 735            | 8,620                          | 0 265  |   |   | 4,770   | 0 61  | 3,710 0 80                                      |
| 510    | 4800             | 0 798            | 9,020                          | 0 305  |   |   | 5,210   | 0 65  | 4,150 0 86                                      |
| 531    | 5000             | 0 868            | 9,380                          | 0 345  |   |   | 5,580   | 0 70  | 4,600 0 92                                      |
| 557    | 5250             | 0 957            | 9,850                          | 0 395  |   |   | 6,140   | 0 77  | 5,100 0 99                                      |
| 584    | 5500             | 1 05             | 10,300                         | 0 455  |   |   | 6,570   | 0 84  | 5,570 1 05                                      |
| 610    | 5750             | 1 15             | 10,800                         | 0 52   |   |   | 7,070   | 0 92  | 6,100 1 15                                      |
| 637    | 6000             | 1 25             | 11,300                         | 0 59   |   |   | 7,560   | 1 0   | 6,610 1 25                                      |
| 663    | 6250             | 1 36             | 11,700                         | 0 67   |   |   | 7,960   | 1 1   | 7,070 1 35                                      |
| 690    | 6500             | 1 46             | 12,200                         | 0 75   |   |   |   |   | 7,590 1 40                                      |
| 716    | 6750             | 1 58             | 12,700                         | 0 85   |   |   |   |   | 8,060 1 55                                      |
| 743    | 7000             | 1 7              | 13,100                         | 0 94   |   |   |   |   | 8,540 1 7                                       |



## 42" Sturtevant Propeller Fan

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Room Resistances.  
Volumes Measured by Anemometer Through Rectangular Opening in Wall. Co-efficient .82

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M. H. P.            | Volume C.F.M. H. P.                                | Volume C.F.M. H. P.                               | Volume C.F.M. H. P.                             | Volume C.F.M. H. P.                                 | Volume C.F.M. H. P.                                 | Volume C.F.M. H. P.                                 | Volume C.F.M. H. P.                             |
|--------|------------------|------------------|--------------------------------|--|---|---|---|---|---|---|
|        |                  |                  | Static Pressure Free Discharge | Static Pressure 1/2" Water .0722 ozs. per sq. inch | Static Pressure 3/4" Water .145 ozs. per sq. inch | Static Pressure 1" Water .217 ozs. per sq. inch | Static Pressure 1 1/4" Water .289 ozs. per sq. inch | Static Pressure 1 1/2" Water .334 ozs. per sq. inch | Static Pressure 1 3/4" Water .378 ozs. per sq. inch | Static Pressure 2" Water .578 ozs. per sq. inch |
| 200    | 2200             | 0.168            | 5,610 0.040                    | 1,390 0.165  |   |   |   |   |   |   |
| 218    | 2400             | 0.200            | 6,120 0.052                    | 2,120 0.180  |   |   |   |   |   |   |
| 236    | 2600             | 0.234            | 6,650 0.065                    | 2,750 0.205  |   |   |   |   |   |   |
| 255    | 2800             | 0.272            | 7,150 0.082                    | 3,360 0.230  |   |   |   |   |   |   |
| 273    | 3000             | 0.313            | 7,640 0.100                    | 3,900 0.255  | 1,500 0.435                                       |   |   |   |   |   |
| 291    | 3200             | 0.355            | 8,160 0.120                    | 4,460 0.280  | 2,300 0.48  |   |   |   |   |   |
| 309    | 3400             | 0.400            | 8,660 0.145                    | 5,000 0.315  | 3,000 0.52  |   |   |   |   |   |
| 329    | 3600             | 0.450            | 9,190 0.175                    | 5,550 0.350  | 3,640 0.56  |   |   |   |   |   |
| 346    | 3800             | 0.500            | 9,710 0.205                    | 6,030 0.385  | 4,230 0.60  | 2,380 0.85                                      |   |   |   |   |
| 364    | 4000             | 0.555            | 10,200 0.240                   | 6,620 0.43   | 4,800 0.63  | 3,120 0.90                                      |   |   |   |   |
| 382    | 4200             | 0.612            | 10,700 0.275                   | 7,200 0.48   | 5,380 0.70  | 3,840 0.97                                      | 1,940 1.25  |   |   |   |
| 400    | 4400             | 0.671            | 11,200 0.320                   | 7,620 0.52   | 5,930 0.76  | 4,450 1.05                                      | 2,800 1.30  |   |   |   |
| 418    | 4600             | 0.735            | 11,800 0.360                   |  | 6,500 0.83  | 5,050 1.10                                      | 3,540 1.40  |   |   |   |
| 436    | 4800             | 0.798            | 12,300 0.410                   |  | 7,070 0.88  | 5,640 1.15                                      | 4,250 1.45  |   |   |   |
| 455    | 5000             | 0.868            | 12,800 0.465                   |  | 7,600 0.96  | 6,250 1.25                                      | 4,850 1.55  |   |   |   |
| 478    | 5250             | 0.957            | 13,400 0.54                    |  | 8,340 1.05  | 6,920 1.30                                      | 5,650 1.65  | 2,830 2.30  |   |   |
| 500    | 5500             | 1.05             | 14,000 0.62                    |  | 8,950 1.15  | 7,560 1.45                                      | 6,350 1.80  | 3,810 2.45  |   |   |
| 523    | 5750             | 1.15             | 14,700 0.71                    |  | 9,620 1.25  | 8,300 1.55                                      | 7,090 1.90  | 4,710 2.60  |   |   |
| 545    | 6000             | 1.25             | 15,300 0.81                    |  | 10,300 1.35                                       | 9,000 1.70                                      | 7,800 2.05  | 5,600 2.80  | 3,000 3.45  |   |
| 569    | 6250             | 1.36             | 16,000 0.91                    |  | 10,800 1.5  | 9,620 1.80                                      | 8,410 2.20  | 6,310 2.90  | 4,030 3.70  |   |
| 591    | 6500             | 1.46             | 16,600 1.05                    |  |   | 10,300 1.95                                     | 9,200 2.35  | 7,130 3.10  | 5,000 3.90  |   |
| 614    | 6750             | 1.58             | 17,200 1.15                    |  |   | 11,000 2.1                                      | 9,870 2.50  | 7,800 3.25  | 5,850 4.10  |   |
| 636    | 7000             | 1.70             | 17,900 1.3                     |  |   | 11,600 2.3                                      | 10,190 2.65   | 8,550 3.45  | 6,730 4.35  |   |

## 48" Sturtevant Propeller Fan

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Room Resistances.  
Volumes Measured by Anemometer Through Rectangular Opening in Wall. Co-efficient .82

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure Free Discharge | Static Pressure 1/2" Water .0722 ozs. per sq. inch | Static Pressure 3/4" Water .145 ozs. per sq. inch | Static Pressure 1" Water .217 ozs. per sq. inch | Static Pressure 1 1/4" Water .289 ozs. per sq. inch | Static Pressure 1 1/2" Water .334 ozs. per sq. inch | Static Pressure 1 3/4" Water .378 ozs. per sq. inch | Static Pressure 2" Water .578 ozs. per sq. inch |
|--------|------------------|------------------|--------------------------------|--|---|---|---|---|---|---|
| 175    | 2200             | 0.168            | 7,320 0.052                    | 1,820 0.210  |   |   |   |   |   |   |
| 191    | 2400             | 0.200            | 8,000 0.068                    | 2,780 0.240  |   |   |   |   |   |   |
| 207    | 2600             | 0.234            | 8,660 0.085                    | 3,600 0.270  |   |   |   |   |   |   |
| 223    | 2800             | 0.272            | 9,320 0.105                    | 4,400 0.300  |   |   |   |   |   |   |
| 239    | 3000             | 0.313            | 9,970 0.130                    | 5,100 0.330  | 1,960 0.57  |   |   |   |   |   |
| 255    | 3200             | 0.355            | 10,600 0.160                   | 5,830 0.365  | 3,000 0.63  |   |   |   |   |   |
| 271    | 3400             | 0.400            | 11,300 0.190                   | 6,530 0.410  | 3,920 0.68  |   |   |   |   |   |
| 287    | 3600             | 0.450            | 12,000 0.230                   | 7,250 0.455  | 4,750 0.73  |   |   |   |   |   |
| 302    | 3800             | 0.500            | 12,700 0.270                   | 7,870 0.50   | 5,530 0.78  | 3,100 1.10                                      |   |   |   |   |
| 319    | 4000             | 0.555            | 13,300 0.310                   | 8,650 0.56   | 6,300 0.83  | 4,070 1.20                                      |   |   |   |   |
| 334    | 4200             | 0.612            | 14,000 0.360                   | 9,400 0.63   | 7,030 0.91  | 5,020 1.25                                      | 2,540 1.60  |   |   |   |
| 350    | 4400             | 0.671            | 14,800 0.415                   | 9,950 0.68   | 7,750 0.99  | 5,800 1.35                                      | 3,060 1.70  |   |   |   |
| 366    | 4600             | 0.735            | 15,300 0.475                   |  | 8,480 1.10  | 6,600 1.40                                      | 4,630 1.80  |   |   |   |
| 382    | 4800             | 0.798            | 16,000 0.54                    |  | 9,250 1.15  | 7,370 1.55                                      | 5,550 1.90  |   |   |   |
| 398    | 5000             | 0.868            | 16,600 0.61                    |  | 9,940 1.25  | 8,170 1.65                                      | 6,330 2.00  |   |   |   |
| 418    | 5250             | 0.957            | 17,500 0.70                    |  | 10,900 1.35                                       | 9,050 1.75                                      | 7,400 2.15  | 3,700 3.00  |   |   |
| 438    | 5500             | 1.05             | 18,300 0.81                    |  | 11,700 1.50                                       | 9,890 1.90                                      | 8,300 2.35  | 4,980 3.20  |   |   |
| 458    | 5750             | 1.15             | 19,200 0.93                    |  | 12,570 1.65                                       | 10,820 2.05                                     | 9,250 2.45  | 6,170 3.40  |   |   |
| 478    | 6000             | 1.25             | 20,000 1.05                    |  | 13,500 1.80                                       | 11,750 2.20                                     | 10,200 2.65   | 7,340 3.60  | 3,920 4.50  |   |
| 498    | 6250             | 1.36             | 20,800 1.20                    |  | 14,100 1.95                                       | 12,600 2.40                                     | 11,000 2.85   | 8,250 3.80  | 5,270 4.85  |   |
| 517    | 6500             | 1.46             | 21,600 1.35                    |  |   | 13,500 2.55                                     | 12,000 3.05   | 9,320 4.00  | 6,540 5.1   |   |
| 537    | 6750             | 1.58             | 22,400 1.50                    |  |   | 14,350 2.75                                     | 12,900 3.25   | 10,200 4.25   | 7,650 5.3   |   |
| 557    | 7000             | 1.70             | 23,300 1.65                    |  |   | 15,150 3  | 13,700 3.45   | 11,200 4.5  | 8,790 5.7   |   |

## 54" Sturtevant Propeller Fan

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Room Resistances.  
Volumes Measured by Anemometer Through Rectangular Opening in Wall. Co-efficient .82

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M. H. P.            |       | Volume C.F.M. H. P.                                |       | Volume C.F.M. H. P.                               |      | Volume C.F.M. H. P.                               |      | Volume C.F.M. H. P.                             |      | Volume C.F.M. H. P.                                 |      | Volume C.F.M. H. P.                                 |     |
|--------|------------------|------------------|--------------------------------|-------|--|-------|---|------|---|------|---|------|---|------|---|-----|
|        |                  |                  | Static Pressure Free Discharge |       | Static Pressure 1/4" Water .0722 ozs. per sq. inch |       | Static Pressure 1/2" Water .145 ozs. per sq. inch |      | Static Pressure 3/4" Water .217 ozs. per sq. inch |      | Static Pressure 1" Water .289 ozs. per sq. inch |      | Static Pressure 1 1/4" Water .434 ozs. per sq. inch |      | Static Pressure 1 1/2" Water .578 ozs. per sq. inch |     |
| 156    | 2200             | 0.168            | 9,280                          | 0.060 | 2,300  | 0.270 |   |      |   |      |   |      |   |      |   |     |
| 170    | 2400             | 0.200            | 10,100                         | 0.085 | 3,520  | 0.300 |   |      |   |      |   |      |   |      |   |     |
| 184    | 2600             | 0.234            | 11,000                         | 0.110 | 4,550  | 0.340 |   |      |   |      |   |      |   |      |   |     |
| 198    | 2800             | 0.272            | 11,800                         | 0.135 | 5,570  | 0.375 |   |      |   |      |   |      |   |      |   |     |
| 212    | 3000             | 0.313            | 12,600                         | 0.165 | 6,450  | 0.420 | 2,480   | 0.72 |   |      |   |      |   |      |   |     |
| 228    | 3200             | 0.355            | 13,500                         | 0.200 | 7,380  | 0.465 | 3,800   | 0.80 |   |      |   |      |   |      |   |     |
| 240    | 3400             | 0.400            | 14,300                         | 0.240 | 8,280  | 0.52  | 4,960   | 0.85 |   |      |   |      |   |      |   |     |
| 255    | 3600             | 0.450            | 15,200                         | 0.290 | 9,200  | 0.58  | 6,000   | 0.93 |   |      |   |      |   |      |   |     |
| 269    | 3800             | 0.500            | 16,000                         | 0.340 | 10,000   | 0.64  | 7,000   | 1.00 | 3,930   | 1.40 |   |      |   |      |   |     |
| 283    | 4000             | 0.555            | 16,900                         | 0.395 | 10,950   | 0.71  | 7,980   | 1.05 | 5,150   | 1.50 |   |      |   |      |   |     |
| 297    | 4200             | 0.612            | 17,700                         | 0.458 | 11,900   | 0.80  | 8,900   | 1.15 | 6,350   | 1.60 | 3,220   | 2.05 |   |      |   |     |
| 311    | 4400             | 0.671            | 18,500                         | 0.53  | 12,600   | 0.86  | 9,800   | 1.25 | 7,350   | 1.70 | 4,640   | 2.15 |   |      |   |     |
| 325    | 4600             | 0.735            | 19,400                         | 0.60  |  |       | 10,750  | 1.35 | 8,360   | 1.80 | 5,850   | 2.30 |   |      |   |     |
| 340    | 4800             | 0.798            | 20,300                         | 0.68  |  |       | 11,700  | 1.45 | 9,350   | 1.95 | 7,030   | 2.40 |   |      |   |     |
| 354    | 5000             | 0.868            | 21,100                         | 0.77  |  |       | 12,600  | 1.60 | 10,300  | 2.10 | 8,000   | 2.55 |   |      |   |     |
| 372    | 5250             | 0.957            | 22,000                         | 0.89  |  |       | 13,800  | 1.75 | 11,500  | 2.25 | 9,380   | 2.70 | 4,670   | 3.75 |   |     |
| 389    | 5500             | 1.05             | 23,200                         | 1.05  |  |       | 14,800  | 1.90 | 12,500  | 2.4  | 10,500  | 2.95 | 6,300   | 4.05 |   |     |
| 407    | 5750             | 1.15             | 24,300                         | 1.15  |  |       | 15,900  | 2.05 | 13,700  | 2.6  | 11,700  | 3.15 | 7,800   | 4.25 |   |     |
| 425    | 6000             | 1.25             | 25,400                         | 1.35  |  |       | 17,000  | 2.25 | 14,900  | 2.8  | 12,900  | 3.35 | 9,280   | 4.60 | 4,970   | 5.7 |
| 442    | 6250             | 1.36             | 26,400                         | 1.5   |  |       | 17,900  | 2.45 | 15,900  | 3.0  | 13,900  | 3.60 | 10,400  | 4.85 | 6,650   | 6.1 |
| 460    | 6500             | 1.46             | 27,400                         | 1.7   |  |       |   |      | 17,100  | 3.2  | 15,200  | 3.85 | 11,800  | 5.1  | 8,280   | 6.5 |
| 478    | 6750             | 1.58             | 28,500                         | 1.9   |  |       |   |      | 18,100  | 3.5  | 16,300  | 4.10 | 12,900  | 5.4  | 9,680   | 6.8 |
| 495    | 7000             | 1.7              | 29,500                         | 2.1   |  |       |   |      | 19,200  | 3.8  | 17,300  | 4.35 | 14,200  | 5.7  | 11,100  | 7.2 |

## 60" Sturtevant Propeller Fan

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Room Resistances.  
Volumes Measured by Anemometer Through Rectangular Opening in Wall. Co-efficient .82

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure Free Discharge |       | Static Pressure 1/4" Water .0722 ozs. per sq. inch |       | Static Pressure 1/2" Water .145 ozs. per sq. inch |      | Static Pressure 3/4" Water .217 ozs. per sq. inch |      | Static Pressure 1" Water .289 ozs. per sq. inch |      | Static Pressure 1 1/4" Water .434 ozs. per sq. inch |      | Static Pressure 1 1/2" Water .578 ozs. per sq. inch |     |
|--------|------------------|------------------|--------------------------------|-------|--|-------|---|------|---|------|---|------|---|------|---|-----|
|        |                  |                  |                                |       |  |       |   |      |   |      |   |      |   |      |   |     |
| 140    | 2200             | 0.168            | 11,400                         | 0.081 | 2,850  | 0.330 |   |      |   |      |   |      |   |      |   |     |
| 153    | 2400             | 0.200            | 12,500                         | 0.105 | 4,350  | 0.370 |   |      |   |      |   |      |   |      |   |     |
| 166    | 2600             | 0.234            | 13,600                         | 0.135 | 5,640  | 0.420 |   |      |   |      |   |      |   |      |   |     |
| 178    | 2800             | 0.272            | 14,600                         | 0.165 | 6,880  | 0.475 |   |      |   |      |   |      |   |      |   |     |
| 191    | 3000             | 0.313            | 15,600                         | 0.205 | 7,980  | 0.52  | 3,060   | 0.89 |   |      |   |      |   |      |   |     |
| 204    | 3200             | 0.355            | 16,700                         | 0.25  | 9,110  | 0.57  | 4,730   | 0.98 |   |      |   |      |   |      |   |     |
| 216    | 3400             | 0.400            | 17,700                         | 0.30  | 10,200   | 0.64  | 6,130   | 1.05 |   |      |   |      |   |      |   |     |
| 229    | 3600             | 0.450            | 18,700                         | 0.36  | 11,300   | 0.71  | 7,430   | 1.15 |   |      |   |      |   |      |   |     |
| 242    | 3800             | 0.500            | 19,800                         | 0.42  | 12,300   | 0.78  | 8,680   | 1.25 | 4,850   | 1.75 |   |      |   |      |   |     |
| 255    | 4000             | 0.555            | 20,900                         | 0.49  | 13,500   | 0.88  | 9,840   | 1.30 | 6,350   | 1.85 |   |      |   |      |   |     |
| 268    | 4200             | 0.612            | 21,800                         | 0.56  | 14,700   | 0.98  | 11,000  | 1.45 | 7,850   | 2.00 | 3,970   | 2.50 |   |      |   |     |
| 280    | 4400             | 0.671            | 22,900                         | 0.65  | 15,500   | 1.05  | 12,100  | 1.55 | 9,080   | 2.10 | 5,720   | 2.65 |   |      |   |     |
| 293    | 4600             | 0.735            | 24,000                         | 0.74  |  |       | 13,300  | 1.70 | 10,300  | 2.25 | 7,250   | 2.85 |   |      |   |     |
| 306    | 4800             | 0.798            | 25,000                         | 0.84  |  |       | 14,400  | 1.80 | 11,500  | 2.40 | 8,700   | 2.95 |   |      |   |     |
| 319    | 5000             | 0.868            | 26,000                         | 0.95  |  |       | 15,500  | 1.95 | 12,600  | 2.55 | 9,900   | 3.15 |   |      |   |     |
| 334    | 5250             | 0.957            | 27,400                         | 1.10  |  |       | 17,000  | 2.15 | 14,200  | 2.75 | 11,500  | 3.40 | 5,780   | 4.65 |   |     |
| 350    | 5500             | 1.05             | 28,600                         | 1.25  |  |       | 18,300  | 2.35 | 15,400  | 2.95 | 13,000  | 3.65 | 7,780   | 5.0  |   |     |
| 366    | 5750             | 1.15             | 30,000                         | 1.45  |  |       | 19,600  | 2.55 | 16,900  | 3.20 | 14,500  | 3.85 | 9,640   | 5.3  |   |     |
| 382    | 6000             | 1.25             | 31,300                         | 1.65  |  |       | 21,000  | 2.8  | 18,400  | 3.45 | 16,000  | 4.15 | 11,500  | 5.7  | 6,140   | 7.1 |
| 398    | 6250             | 1.36             | 32,600                         | 1.85  |  |       | 22,100  | 3    | 19,600  | 3.70 | 17,200  | 4.45 | 12,900  | 6.0  | 8,200   | 7.6 |
| 414    | 6500             | 1.46             | 33,900                         | 2.10  |  |       |   |      | 21,100  | 4.00 | 18,800  | 4.8  | 14,600  | 6.3  | 10,200  | 8.0 |
| 430    | 6750             | 1.58             | 35,200                         | 2.35  |  |       |   |      | 22,500  | 4.35 | 20,100  | 5.1  | 15,900  | 6.7  | 12,000  | 8.4 |
| 446    | 7000             | 1.7              | 36,500                         | 2.6   |  |       |   |      | 23,700  | 4.65 | 21,400  | 5.4  | 17,500  | 7.1  | 13,800  | 8.9 |

## 66" Sturtevant Propeller Fan

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Room Resistances.  
Volumes Measured by Anemometer Through Rectangular Opening in Wall. Co-efficient .82

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M. H. P. Static Pressure Free Discharge | Volume C.F.M. H. P. Static Pressure 1/4" Water .0722 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1/2" Water .145 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 3/4" Water .217 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1" Water .289 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1 1/4" Water .434 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1 1/2" Water .578 ozs. per sq. inch |
|--------|------------------|------------------|--|--|---|---|---|---|---|
| 127    | 2200             | 0 168            | 13,900 0 098                                       | 3,440 0 40   |   |   |   |   |   |
| 139    | 2400             | 0 200            | 15,200 0 130                                       | 5,230 0 45   |   |   |   |   |   |
| 150    | 2600             | 0 234            | 16,400 0 160                                       | 6,790 0 50   |   |   |   |   |   |
| 162    | 2800             | 0 272            | 17,700 0 200                                       | 8,310 0 57   |   |   |   |   |   |
| 174    | 3000             | 0 313            | 18,900 0 250                                       | 9,600 0 63   | 3,700 1 05  |   |   |   |   |
| 185    | 3200             | 0 355            | 20,200 0 300                                       | 11,000 0 69  | 5,700 1 20  |   |   |   |   |
| 197    | 3400             | 0 400            | 21,500 0 365                                       | 12,300 0 77  | 7,400 1 30  |   |   |   |   |
| 208    | 3600             | 0 450            | 22,700 0 43  | 13,700 0 86  | 8,980 1 40  |   |   |   |   |
| 220    | 3800             | 0 500            | 24,000 0 50  | 14,900 0 95  | 10,400 1 50   | 5,870 2 10  |   |   |   |
| 231    | 4000             | 0 555            | 25,300 0 59  | 16,300 1 05  | 11,900 1 55   | 7,700 2 20  |   |   |   |
| 243    | 4200             | 0 612            | 26,500 0 68  | 17,800 1 2   | 13,200 1 75   | 9,470 2 40  | 4,800 3 05  |   |   |
| 255    | 4400             | 0 671            | 27,800 0 79  | 18,800 1 3   | 14,600 1 90   | 10,900 2 55   | 6,900 3 20  |   |   |
| 266    | 4600             | 0 735            | 29,000 0 90  |  | 16,000 2 05   | 12,500 2 70   | 8,710 3 45  |   |   |
| 278    | 4800             | 0 798            | 30,300 1 05  |  | 17,400 2 20   | 13,900 2 90   | 10,500 3 6  |   |   |
| 289    | 5000             | 0 868            | 31,500 1 15  |  | 18,800 2 35   | 15,400 3 10   | 12,000 3 8  |   |   |
| 304    | 5250             | 0 957            | 33,200 1 35  |  | 20,600 2 60   | 17,100 3 35   | 14,000 4 1  | 7,000 5 6   |   |
| 318    | 5500             | 1 05             | 34,600 1 55  |  | 22,000 2 80   | 18,700 3 55   | 15,700 4 4  | 9,400 6 0   |   |
| 333    | 5750             | 1 15             | 36,400 1 75  |  | 23,800 3 10   | 20,500 3 85   | 17,500 4 7  | 11,600 6 4  |   |
| 347    | 6000             | 1 25             | 37,900 2 00  |  | 25,400 3 40   | 22,000 4 15   | 19,300 5 0  | 13,800 6 8  | 7,400 8.5   |
| 361    | 6250             | 1 36             | 39,500 2 25  |  | 26,700 3 65   | 23,800 4 5  | 20,800 5 4  | 15,600 7 2  | 9,920 9.2   |
| 375    | 6500             | 1 46             | 41,000 2 55  |  |   | 25,500 4 8  | 22,800 5 8  | 17,600 7 6  | 12,300 9.6  |
| 390    | 6750             | 1 58             | 42,700 2 85  |  |   | 27,100 5 2  | 24,400 6 1  | 19,200 8 1  | 14,500 10 0   |
| 405    | 7000             | 1 7              | 44,200 3 15  |  |   | 28,600 5 6  | 25,900 6 5  | 21,100 8 5  | 16,600 10 5   |

## 72" Sturtevant Propeller Fan

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Room Resistances.  
Volumes Measured by Anemometer Through Rectangular Opening in Wall. Co-efficient .82

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure Free Discharge | Static Pressure 1/4" Water .0722 ozs. per sq. inch | Static Pressure 1/2" Water .145 ozs. per sq. inch | Static Pressure 3/4" Water .217 ozs. per sq. inch | Static Pressure 1" Water .289 ozs. per sq. inch | Static Pressure 1 1/4" Water .434 ozs. per sq. inch | Static Pressure 1 1/2" Water .578 ozs. per sq. inch |
|--------|------------------|------------------|--------------------------------|--|---|---|---|---|---|
| 117    | 2200             | 0 168            | 16,500 0 115                   | 4,100 0 48   |   |   |   |   |   |
| 127    | 2400             | 0 200            | 18,000 0 15                    | 6,250 0 54   |   |   |   |   |   |
| 138    | 2600             | 0 234            | 19,500 0 20                    | 8,100 0 60   |   |   |   |   |   |
| 148    | 2800             | 0 272            | 21,000 0 21                    | 9,900 0 68   |   |   |   |   |   |
| 159    | 3000             | 0 313            | 22,500 0 30                    | 11,500 0 75  | 4,420 1 25  |   |   |   |   |
| 170    | 3200             | 0 355            | 24,000 0 36                    | 13,100 0 83  | 6,800 1 40  |   |   |   |   |
| 180    | 3400             | 0 400            | 25,500 0 43                    | 14,700 0 92  | 8,830 1 50  |   |   |   |   |
| 191    | 3600             | 0 450            | 27,000 0 51                    | 16,300 1 05  | 10,700 1 65                                       |   |   |   |   |
| 202    | 3800             | 0 500            | 28,600 0 60                    | 17,800 1 15  | 12,500 1 75                                       | 7,000 2 50  |   |   |   |
| 212    | 4000             | 0 555            | 30,100 0 70                    | 19,500 1 25  | 14,200 1 85                                       | 9,180 2 65  |   |   |   |
| 223    | 4200             | 0 612            | 31,500 0 81                    | 21,200 1 4   | 15,800 2 05                                       | 11,300 2 85                                       | 5,730 3 60                                      |   |   |
| 233    | 4400             | 0 671            | 33,000 0 94                    | 22,500 1 5   | 17,500 2 25                                       | 13,100 3 00                                       | 8,250 3 85                                      |   |   |
| 244    | 4600             | 0 735            | 34,600 1 05                    |  | 19,100 2 45                                       | 14,900 3 20                                       | 10,400 4 10                                     |   |   |
| 254    | 4800             | 0 798            | 36,200 1 20                    |  | 20,800 2 60                                       | 16,600 3 45                                       | 12,500 4 30                                     |   |   |
| 265    | 5000             | 0 868            | 37,500 1 35                    |  | 22,400 2 80                                       | 18,400 3 70                                       | 14,300 4 55                                     |   |   |
| 278    | 5250             | 0 957            | 39,400 1 60                    |  | 24,500 3 10                                       | 20,400 4 00                                       | 16,600 4 85                                     | 8,340 6 7   |   |
| 292    | 5500             | 1 05             | 41,300 1 85                    |  | 26,400 3 35                                       | 22,300 4 25                                       | 18,700 5 3                                      | 11,200 7 2  |   |
| 305    | 5750             | 1 15             | 43,200 2 1                     |  | 28,300 3 70                                       | 24,400 4 60                                       | 20,800 5 6                                      | 13,900 7 6  |   |
| 318    | 6000             | 1 25             | 45,100 2 4                     |  | 30,400 4 00                                       | 26,500 4 95                                       | 23,000 6 0                                      | 16,500 8 2  | 8,840 10 0  |
| 331    | 6250             | 1 36             | 47,000 2 7                     |  | 31,900 4 35                                       | 28,300 5 3  | 24,800 6 4                                      | 18,600 8 6  | 11,900 11 0   |
| 345    | 6500             | 1 46             | 48,800 3 0                     |  |   | 30,300 5 7  | 27,100 6 9                                      | 21,000 9 0  | 14,700 11 5   |
| 358    | 6750             | 1 58             | 50,700 3 4                     |  |   | 32,300 6 2  | 29,000 7 3                                      | 23,000 9 6  | 17,200 12   |
| 371    | 7000             | 1 7              | 52,500 3 8                     |  |   | 34,200 6 7  | 30,900 7 8                                      | 25,300 10   | 19,800 13   |



## 96" Sturtevant Propeller Fan

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Room Resistances.  
Volumes Measured by Anemometer Through Rectangular Opening in Wall. Co-efficient .82

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M. H. P. Static Pressure Free Discharge | Volume C.F.M. H. P. Static Pressure 1/2" Water .0722 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 3/4" Water .145 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1" Water .217 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1 1/4" Water .289 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1 1/2" Water .344 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1 3/4" Water .378 ozs. per sq. inch |
|--------|------------------|------------------|--|--|---|---|---|---|---|
| 88     | 2200             | 0.168            | 29,300 0.21  | 7,300 0.85   |   |   |   |   |   |
| 96     | 2400             | 0.200            | 32,100 0.27  | 11,100 0.95  |   |   |   |   |   |
| 103    | 2600             | 0.234            | 34,700 0.34  | 14,400 1.05  |   |   |   |   |   |
| 111    | 2800             | 0.272            | 37,400 0.43  | 17,600 1.20  |   |   |   |   |   |
| 119    | 3000             | 0.313            | 40,000 0.53  | 20,400 1.30  | 7,850 2.25  |   |   |   |   |
| 127    | 3200             | 0.355            | 42,700 0.64  | 23,400 1.45  | 12,100 2.50   |   |   |   |   |
| 135    | 3400             | 0.400            | 45,300 0.77  | 26,100 1.64  | 15,700 2.70   |   |   |   |   |
| 143    | 3600             | 0.450            | 48,000 0.91  | 29,000 1.80  | 19,100 2.95   |   |   |   |   |
| 151    | 3800             | 0.500            | 50,700 1.05  | 31,600 2.00  | 22,200 3.15   | 12,500 4.50   |   |   |   |
| 159    | 4000             | 0.555            | 53,500 1.25  | 34,600 2.25  | 25,200 3.30   | 16,900 4.75   |   |   |   |
| 167    | 4200             | 0.612            | 56,000 1.45  | 37,700 2.5   | 28,100 3.65   | 20,100 5.1  | 10,150 6.4  |   |   |
| 175    | 4400             | 0.671            | 58,700 1.65  | 39,900 2.7   | 31,000 4.00   | 23,200 5.4  | 14,700 6.8  |   |   |
| 183    | 4600             | 0.735            | 61,500 1.90  |  | 34,000 4.35   | 26,500 5.7  | 18,500 7.3  |   |   |
| 191    | 4800             | 0.798            | 64,100 2.15  |  | 37,000 4.6  | 29,500 6.1  | 22,200 7.6  |   |   |
| 198    | 5000             | 0.868            | 66,800 2.45  |  | 39,800 5.0  | 32,700 6.6  | 25,400 8.1  |   |   |
| 209    | 5250             | 0.957            | 70,000 2.80  |  | 43,600 5.5  | 36,200 7.1  | 29,600 8.6  | 14,800 12.0   |   |
| 218    | 5500             | 1.05             | 73,400 3.25  |  | 46,800 6.0  | 39,600 7.6  | 33,200 9.3  | 19,900 13.0   |   |
| 228    | 5750             | 1.15             | 76,800 3.70  |  | 50,300 6.5  | 43,500 8.2  | 37,100 9.9  | 24,700 13.5   |   |
| 239    | 6000             | 1.25             | 80,300 4.20  |  | 53,900 7.1  | 47,100 8.8  | 40,800 10.5   | 29,300 14.5   | 15,700 18.0   |
| 248    | 6250             | 1.36             | 83,500 4.75  |  | 56,600 7.8  | 50,300 9.5  | 44,000 11.5   | 33,000 15.5   | 21,100 19.5   |
| 259    | 6500             | 1.46             | 86,600 5.4   |  |   | 54,000 10   | 48,200 12   | 37,300 16   | 25,200 20.5   |
| 268    | 6750             | 1.58             | 90,000 6.0   |  |   | 57,400 11   | 51,700 13   | 40,800 17   | 30,600 21.5   |
| 278    | 7000             | 1.70             | 93,400 6.7   |  |   | 60,700 12   | 54,800 14   | 44,800 18   | 35,300 22.5   |

## 108" Sturtevant Propeller Fan

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Room Resistances.  
Volumes Measured by Anemometer Through Rectangular Opening in Wall. Co-efficient .82

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure Free Discharge | Static Pressure 1/2" Water .0722 ozs. per sq. inch | Static Pressure 3/4" Water .145 ozs. per sq. inch | Static Pressure 1" Water .217 ozs. per sq. inch | Static Pressure 1 1/4" Water .289 ozs. per sq. inch | Static Pressure 1 1/2" Water .344 ozs. per sq. inch | Static Pressure 1 3/4" Water .378 ozs. per sq. inch |
|--------|------------------|------------------|--------------------------------|--|---|---|---|---|---|
| 78     | 2200             | 0.168            | 37,200 0.265                   | 9,230 1.10   |   |   |   |   |   |
| 85     | 2400             | 0.200            | 40,600 0.340                   | 11,100 1.20  |   |   |   |   |   |
| 92     | 2600             | 0.234            | 44,000 0.435                   | 13,200 1.35  |   |   |   |   |   |
| 99     | 2800             | 0.272            | 47,200 0.54                    | 22,300 1.50  |   |   |   |   |   |
| 106    | 3000             | 0.313            | 50,500 0.67                    | 25,800 1.70  | 9,950 2.85  |   |   |   |   |
| 113    | 3200             | 0.355            | 54,000 0.81                    | 29,500 1.85  | 15,300 3.2  |   |   |   |   |
| 120    | 3400             | 0.400            | 57,300 0.97                    | 33,200 2.10  | 19,800 3.4  |   |   |   |   |
| 128    | 3600             | 0.450            | 60,700 1.15                    | 36,700 2.30  | 24,000 3.7  |   |   |   |   |
| 135    | 3800             | 0.500            | 64,300 1.35                    | 40,000 2.55  | 28,000 4.0  | 15,800 5.7                                      |   |   |   |
| 142    | 4000             | 0.555            | 67,400 1.60                    | 43,800 2.85  | 31,800 4.2  | 20,600 6.0                                      |   |   |   |
| 149    | 4200             | 0.612            | 70,800 1.80                    | 47,800 3.20  | 35,500 4.6  | 25,400 6.5                                      | 12,900 8.1  |   |   |
| 156    | 4400             | 0.671            | 74,200 2.10                    | 50,500 3.45  | 39,300 5.0  | 29,400 6.8                                      | 18,500 8.6  |   |   |
| 163    | 4600             | 0.735            | 77,700 2.40                    |  | 43,000 5.5  | 33,500 7.3                                      | 23,400 9.2  |   |   |
| 170    | 4800             | 0.798            | 81,000 2.75                    |  | 46,800 5.8  | 37,400 7.8                                      | 28,200 9.6  |   |   |
| 177    | 5000             | 0.868            | 84,300 3.10                    |  | 50,400 6.3  | 41,460 8.3                                      | 32,100 10.0   |   |   |
| 186    | 5250             | 0.957            | 88,500 3.55                    |  | 55,200 7.0  | 45,800 9.0                                      | 37,500 11.0   | 18,700 15.0   |   |
| 195    | 5500             | 1.05             | 92,800 4.1                     |  | 59,200 7.6  | 50,200 9.6                                      | 42,000 12.0   | 25,200 16.0   |   |
| 204    | 5750             | 1.15             | 97,100 4.7                     |  | 63,600 8.3  | 55,000 10.5                                     | 46,900 12.5   | 31,200 17.0   |   |
| 213    | 6000             | 1.25             | 101,000 5.3                    |  | 68,700 9.1  | 59,500 11                                       | 51,600 13.5   | 37,100 18.5   | 19,900 23.0   |
| 222    | 6250             | 1.36             | 106,000 6.0                    |  | 71,600 9.8  | 63,600 12                                       | 55,700 14.5   | 41,800 19.5   | 26,700 24.5   |
| 230    | 6500             | 1.46             | 110,000 6.8                    |  |   | 68,300 13                                       | 61,000 15.5   | 47,300 20.5   | 33,100 26   |
| 239    | 6750             | 1.58             | 114,000 7.6                    |  |   | 78,600 14                                       | 65,200 16.5   | 51,500 21.5   | 38,760 27   |
| 248    | 7000             | 1.70             | 117,000 8.5                    |  |   | 76,900 15                                       | 69,500 17.5   | 56,600 23   | 44,600 29   |

# 120" Sturtevant Propeller Fan

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Room Resistances.  
 Volumes Measured by Anemometer Through Rectangular Opening in Wall. Co-efficient .82

| R.P.M. | Tip Speed<br>F.P.M. | S.N.D.<br>in<br>inches | Volume<br>C.F.M.                  | H. P. | Volume<br>C.F.M.  | H. P. | Volume<br>C.F.M.   | H. P. | Volume<br>C.F.M.   | H. P. | Volume<br>C.F.M.   | H. P. | Volume<br>C.F.M.   | H. P. | Volume<br>C.F.M.   | H. P. |
|--------|---------------------|------------------------|-----------------------------------|-------|---|-------|--|-------|--|-------|--|-------|--|-------|--|-------|
|        |                     |                        | Static Pressure<br>Free Discharge |       | Static Pressure<br>1" Water<br>.0722 ozs. per<br>sq. inch |       | Static Pressure<br>1 1/4" Water<br>.145 ozs. per<br>sq. inch |       | Static Pressure<br>1 1/2" Water<br>.217 ozs. per<br>sq. inch |       | Static Pressure<br>1 3/4" Water<br>.289 ozs. per<br>sq. inch |       | Static Pressure<br>2" Water<br>.434 ozs. per<br>sq. inch |       | Static Pressure<br>2 1/4" Water<br>.578 ozs. per<br>sq. inch |       |
| 70     | 2200                | 0 168                  | 46,000                            | 0 325 | 11,100  | 1 35  |  |       |  |       |  |       |  |       |  |       |
| 76     | 2400                | 0 200                  | 50,100                            | 0 420 | 17,400  | 1 50  |  |       |  |       |  |       |  |       |  |       |
| 83     | 2600                | 0 234                  | 54,300                            | 0 535 | 22,500  | 1 65  |  |       |  |       |  |       |  |       |  |       |
| 89     | 2800                | 0 272                  | 58,300                            | 0 67  | 27,600  | 1 90  |  |       |  |       |  |       |  |       |  |       |
| 96     | 3000                | 0 313                  | 62,400                            | 0 82  | 31,900  | 2 05  | 12,300   | 3 55  |  |       |  |       |  |       |  |       |
| 102    | 3200                | 0 355                  | 66,800                            | 1 00  | 36,500  | 2 30  | 18,900   | 3 95  |  |       |  |       |  |       |  |       |
| 108    | 3400                | 0 400                  | 70,800                            | 1 20  | 40,800  | 2 55  | 24,600   | 4 25  |  |       |  |       |  |       |  |       |
| 115    | 3600                | 0 450                  | 75,000                            | 1 45  | 45,300  | 2 85  | 29,800   | 4 6   |  |       |  |       |  |       |  |       |
| 121    | 3800                | 0 500                  | 79,300                            | 1 65  | 49,300  | 3 15  | 34,600   | 4 9   | 14,460   | 7 0   |  |       |  |       |  |       |
| 127    | 4000                | 0 555                  | 83,600                            | 1 95  | 54,000  | 3 50  | 39,400   | 5 2   | 25,500   | 7 4   |  |       |  |       |  |       |
| 134    | 4200                | 0 612                  | 87,500                            | 2 25  | 58,800  | 3 90  | 43,800   | 5 7   | 31,400   | 8 0   | 15,900   | 10 0  |  |       |  |       |
| 140    | 4400                | 0 671                  | 91,800                            | 2 60  | 62,300  | 4 25  | 48,500   | 6 2   | 36,300   | 8 4   | 22,900   | 10 5  |  |       |  |       |
| 146    | 4600                | 0 735                  | 96,000                            | 2 95  |   |       | 53,100   | 6 8   | 41,400   | 8 9   | 29,000   | 11 5  |  |       |  |       |
| 153    | 4800                | 0 798                  | 100,000                           | 3 4   |   |       | 57,800   | 7 2   | 46,160   | 9 6   | 34,800   | 12 0  |  |       |  |       |
| 159    | 5000                | 0 868                  | 104,000                           | 3 8   |   |       | 62,100   | 7 8   | 51,100   | 10 0  | 39,600   | 12 5  |  |       |  |       |
| 167    | 5250                | 0 957                  | 110,000                           | 4 4   |   |       | 68,100   | 8 6   | 56,600   | 11 0  | 46,200   | 13 5  | 23,100   | 18 5  |  |       |
| 175    | 5500                | 1 05                   | 115,000                           | 5 1   |   |       | 73,000   | 9 3   | 61,800   | 12 0  | 52,000   | 14 5  | 31,200   | 20 0  |  |       |
| 183    | 5750                | 1 15                   | 120,000                           | 5 8   |   |       | 78,500   | 10    | 68,800   | 13 0  | 57,900   | 15 5  | 38,600   | 21 0  |  |       |
| 191    | 6000                | 1 25                   | 125,000                           | 6 6   |   |       | 84,000   | 11    | 73,500   | 14 0  | 63,800   | 16 5  | 45,800   | 22 5  | 21,600   | 28    |
| 199    | 6250                | 1 36                   | 131,000                           | 7 5   |   |       | 88,500   | 12    | 78,500   | 15 0  | 69,000   | 18 0  | 51,700   | 24    | 32,900   | 30    |
| 202    | 6500                | 1 46                   | 136,000                           | 8 4   |   |       |  |       | 84,500   | 16 0  | 75,000   | 19 0  | 58,400   | 25    | 41,000   | 32    |
| 215    | 6750                | 1 58                   | 141,000                           | 9 4   |   |       |  |       | 89,700   | 17 5  | 80,700   | 20 0  | 63,700   | 27    | 47,800   | 33    |
| 223    | 7000                | 1 7                    | 146,000                           | 10 5  |   |       |  |       | 95,000   | 18 5  | 85,600   | 21 5  | 70,000   | 28    | 55,000   | 35    |



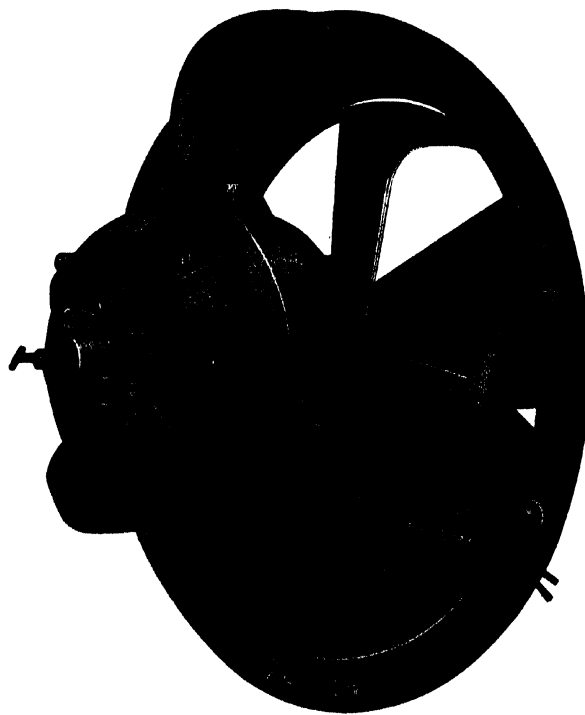
**STURTEVANT - BLACKMAN**  
**PROPELLER FANS**  
**Pulley and Electric Drive**

**Dimensions, Capacities, Horse Powers**





## Sturtevant-Blackman Propeller Fan



Sturtevant-Blackman Propeller Fan

## **STURTEVANT-BLACKMAN PROPELLER FAN**

### **SPECIFICATIONS**

We recommend the use of the specifications on Sturtevant Propeller Fans given on page 808. Propeller Fans of the Blackman type are built by this company only when ordered or to meet specifications. The demand for them, however, is decreasing since they are less efficient, of smaller volumetric capacity, and make more noise than Sturtevant Propeller Fans. For these reasons we strongly advise the use of the latter type.

## **Sturtevant-Blackman Propeller Fan**

### **EXPLANATION OF TABLES**

These fans are not usually applied in connection with piping systems because they are not efficient where a large component of the pressure is static.

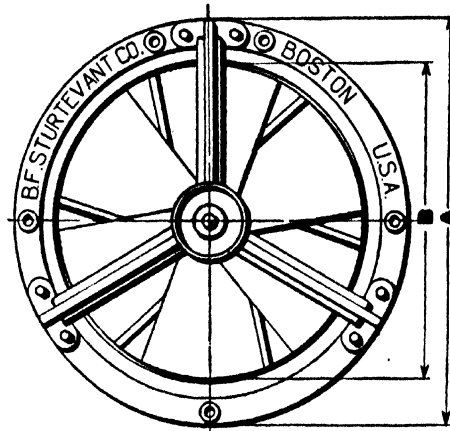
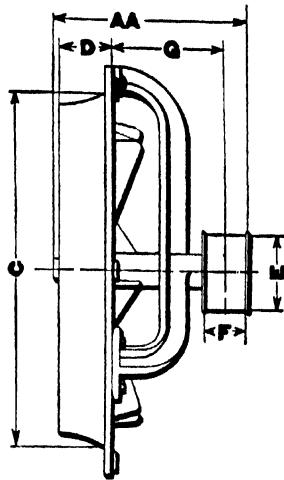
Capacities are therefore measured with fan discharging into a plenum space, the maintained resistance being the static pressure in that space.

## **Sturtevant-Blackman Propeller Fan**

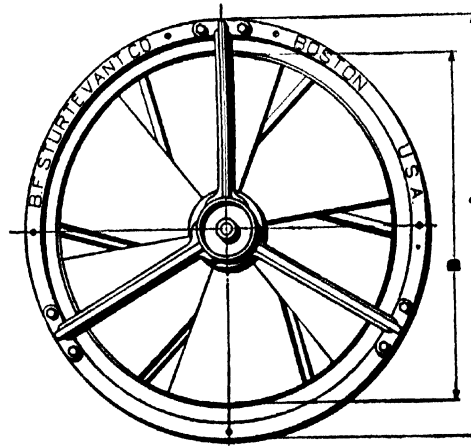
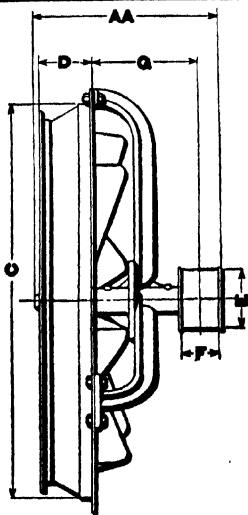
### **APPROXIMATE WEIGHTS**

| <b>Size</b> | <b>Direct Current</b> | <b>Alternating Current</b> |
|-------------|-----------------------|----------------------------|
| 18          | 180                   | 150                        |
| 24          | 225                   | 300                        |
| 30          | 438                   | 440                        |
| 36          | 550                   | 560                        |
| 42          | 950                   |                            |
| 48          | 1156                  |                            |
| 54          | 1200                  |                            |
| 60          | 1400                  |                            |

## Sturtevant-Blackman Pulley Propeller Fan



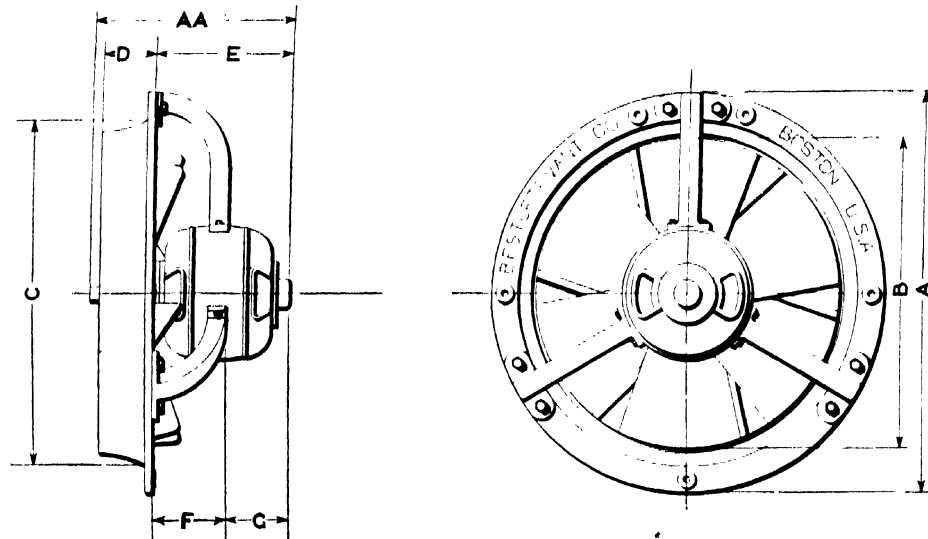
| Size | A   | B   | C   | D  | E | F  | G  | AA  | Shaft Diameter | Anchor Bolts |
|------|-----|-----|-----|----|---|----|----|-----|----------------|--------------|
| 12   | 16½ | 12  | 13½ | 2½ | 3 | 2  | 5½ | 9½  | 1              | 1            |
| 18   | 23½ | 18  | 19½ | 3½ | 4 | 2½ | 6½ | 11½ | 1½             | 1½           |
| 24   | 31  | 23½ | 27  | 4½ | 5 | 2½ | 6½ | 12½ | 1½             | 1½           |
| 30   | 38  | 30  | 33  | 4½ | 6 | 3½ | 8  | 15½ | 1½             | 1½           |
| 36   | 44  | 36  | 39  | 5½ | 7 | 4½ | 11 | 19½ | 1½             | 1½           |
| 42   | 52½ | 42  | 45½ | 6½ | 8 | 5½ | 12 | 21½ | 1½             | 1½           |



| Size | A    | B   | C    | D  | E  | F  | G   | AA  | Shaft Diameter | Anchor Bolts |
|------|------|-----|------|----|----|----|-----|-----|----------------|--------------|
| 48   | 58   | 48  | 53½  | 7½ | 8  | 5½ | 15½ | 25½ | 1½             | 1½           |
| 54   | 64½  | 54  | 60   | 8½ | 9  | 5½ | 17½ | 29½ | 1½             | 1½           |
| 60   | 71   | 60  | 64½  | 9½ | 10 | 6½ | 18½ | 31½ | 1½             | 1½           |
| 66   | 77½  | 66  | 71   | 10 | 10 | 6½ | 21  | 34½ | 1½             | 1½           |
| 72   | 84   | 72  | 77½  | 11 | 12 | 7½ | 22½ | 37½ | 1½             | 1½           |
| 78   | 90½  | 78  | 84½  | 12 | 14 | 8½ | 23½ | 39½ | 1½             | 1½           |
| 84   | 98½  | 84  | 90½  | 13 | 14 | 8½ | 25½ | 43  | 2              | 1            |
| 96   | 111½ | 96  | 103½ | 15 | 16 | 8½ | 26½ | 46½ | 2              | 1            |
| 108  | 125  | 108 | 115½ | 17 | 18 | 8½ | 29½ | 50½ | 2              | 1            |
| 120  | 138  | 120 | 128½ | 19 | 20 | 8½ | 30½ | 54½ | 2              | 1            |

# Sturtevant-Blackman Electric Propeller Fan

Sturtevant Direct Current Motors



## Medium Speed

| Size | Motor   | A                | B                | C                | D               | E                | F                | G                | AA               | Shaft Diameter  | Anchor Bolts  |
|------|---------|------------------|------------------|------------------|-----------------|------------------|------------------|------------------|------------------|-----------------|---------------|
| 18   | 1 E. B. | 23 $\frac{1}{2}$ | 18               | 19 $\frac{1}{2}$ | 3 $\frac{1}{2}$ | 10 $\frac{1}{2}$ | 5 $\frac{1}{2}$  | 5                | 11 $\frac{1}{2}$ | $\frac{3}{8}$   | $\frac{1}{8}$ |
| 24   | 1 E. B. | 31               | 23 $\frac{1}{2}$ | 27               | 4 $\frac{1}{2}$ | 14 $\frac{1}{2}$ | 7 $\frac{1}{2}$  | 6 $\frac{1}{8}$  | 18 $\frac{3}{8}$ | $\frac{1}{2}$   | $\frac{1}{8}$ |
| 30   | 1 E. B. | 38               | 30               | 33               | 4 $\frac{1}{2}$ | 16 $\frac{1}{2}$ | 9 $\frac{1}{2}$  | 7 $\frac{1}{4}$  | 21 $\frac{1}{2}$ | $\frac{3}{4}$   | $\frac{1}{2}$ |
| 36   | 2 E. B. | 44               | 36               | 39               | 5 $\frac{1}{2}$ | 20 $\frac{1}{2}$ | 11 $\frac{1}{2}$ | 9 $\frac{3}{8}$  | 26 $\frac{1}{2}$ | 1 $\frac{1}{8}$ | $\frac{1}{2}$ |
| 42   | 3 E. B. | 52 $\frac{1}{2}$ | 42               | 45 $\frac{1}{2}$ | 6 $\frac{1}{2}$ | 23 $\frac{1}{2}$ | 13 $\frac{1}{2}$ | 10 $\frac{1}{2}$ | 30 $\frac{1}{8}$ | 1 $\frac{1}{2}$ | $\frac{3}{4}$ |
| 48   | 5 E. B. | 59               | 48               | 52               | 7 $\frac{1}{2}$ | 26 $\frac{1}{2}$ | 15 $\frac{1}{2}$ | 11 $\frac{1}{2}$ | 31 $\frac{1}{8}$ | 1 $\frac{3}{4}$ | $\frac{3}{4}$ |
| 54   | 1 C     | 62 $\frac{1}{2}$ | 54               | 58 $\frac{1}{2}$ | 8 $\frac{1}{2}$ | 19 $\frac{1}{2}$ | 10 $\frac{1}{2}$ | 8 $\frac{1}{2}$  | 28               | 1 $\frac{1}{2}$ | $\frac{3}{4}$ |
| 60   | 1 C     | 71               | 60               | 64 $\frac{1}{2}$ | 9 $\frac{1}{2}$ | 19 $\frac{1}{2}$ | 10 $\frac{1}{2}$ | 8 $\frac{1}{2}$  | 29               | 1 $\frac{1}{2}$ | $\frac{3}{4}$ |

Size 60 has a steel plate thimble.

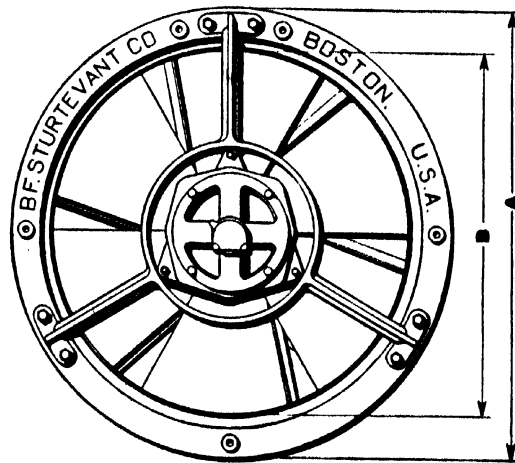
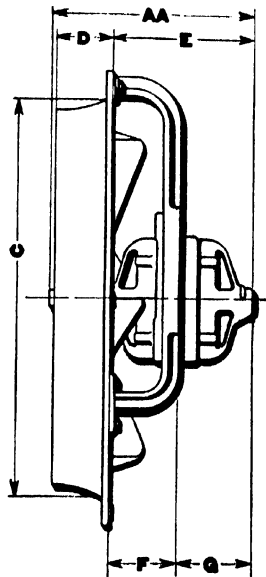
## Maximum Speed

| Size | Motor   | A                | B                | C                | D               | E                | F                | G                | AA               | Shaft Diameter  | Anchor Bolts  |
|------|---------|------------------|------------------|------------------|-----------------|------------------|------------------|------------------|------------------|-----------------|---------------|
| 18   | 1 E. B. | 23 $\frac{1}{2}$ | 18               | 19 $\frac{1}{2}$ | 3 $\frac{1}{2}$ | 14 $\frac{1}{8}$ | 7 $\frac{1}{2}$  | 6 $\frac{1}{8}$  | 17 $\frac{3}{8}$ | $\frac{3}{8}$   | $\frac{1}{8}$ |
| 24   | 1 E. B. | 31               | 23 $\frac{1}{2}$ | 27               | 4 $\frac{1}{2}$ | 16 $\frac{1}{8}$ | 9 $\frac{1}{2}$  | 7 $\frac{1}{8}$  | 21 $\frac{1}{8}$ | $\frac{1}{2}$   | $\frac{1}{8}$ |
| 30   | 2 E. B. | 38               | 30               | 33               | 4 $\frac{1}{2}$ | 20 $\frac{1}{8}$ | 11 $\frac{1}{2}$ | 9 $\frac{3}{8}$  | 25 $\frac{1}{8}$ | 1 $\frac{1}{8}$ | $\frac{1}{2}$ |
| 36   | 3 E. B. | 44               | 36               | 39               | 5 $\frac{1}{2}$ | 23 $\frac{1}{8}$ | 13 $\frac{1}{4}$ | 10 $\frac{1}{2}$ | 29 $\frac{1}{8}$ | 1 $\frac{1}{2}$ | $\frac{1}{2}$ |
| 42   | 5 E. B. | 52 $\frac{1}{2}$ | 42               | 45 $\frac{1}{2}$ | 6 $\frac{1}{2}$ | 26 $\frac{1}{2}$ | 15               | 11 $\frac{1}{2}$ | 33 $\frac{1}{8}$ | 1 $\frac{3}{4}$ | $\frac{3}{4}$ |
| 48   | 1 C     | 59               | 48               | 52               | 7 $\frac{1}{2}$ | 19 $\frac{1}{2}$ | 10 $\frac{1}{2}$ | 8 $\frac{1}{2}$  | 26 $\frac{1}{2}$ | 1 $\frac{1}{2}$ | $\frac{3}{4}$ |
| 54   | 1 C     | 65 $\frac{1}{2}$ | 54               | 58 $\frac{1}{2}$ | 8 $\frac{1}{2}$ | 19 $\frac{1}{2}$ | 10 $\frac{1}{2}$ | 8 $\frac{1}{2}$  | 28               | 1 $\frac{1}{2}$ | $\frac{3}{4}$ |
| 60   | 1 C     | 71               | 60               | 64 $\frac{1}{2}$ | 9 $\frac{1}{2}$ | 19 $\frac{1}{2}$ | 10 $\frac{1}{2}$ | 8 $\frac{1}{2}$  | 29 $\frac{1}{2}$ | 1 $\frac{1}{2}$ | $\frac{3}{4}$ |

Size 60 has a steel plate thimble.

# Sturtevant - Blackman Electric Propeller Fan

Alternating Current Motors—1, 2 and 3 Phase



| Fan Size | A                | B                | C                | D               | E                | F                | G                | AA               | Shaft Diameter  | Anchor Bolts  |
|----------|------------------|------------------|------------------|-----------------|------------------|------------------|------------------|------------------|-----------------|---------------|
| 18       | 23 $\frac{1}{2}$ | 18               | 19 $\frac{1}{2}$ | 3 $\frac{1}{2}$ | 9 $\frac{3}{8}$  | 4 $\frac{1}{2}$  | 4 $\frac{1}{2}$  | 13 $\frac{1}{2}$ | $\frac{1}{2}$   | $\frac{1}{2}$ |
| 24       | 31               | 23 $\frac{1}{2}$ | 27               | 4 $\frac{1}{2}$ | 12 $\frac{1}{8}$ | 6                | 6 $\frac{1}{2}$  | 16 $\frac{1}{2}$ | 1               | $\frac{1}{2}$ |
| 30       | 38               | 30               | 33               | 4 $\frac{1}{2}$ | 15 $\frac{1}{2}$ | 7 $\frac{1}{2}$  | 8 $\frac{1}{2}$  | 20 $\frac{1}{2}$ | 1 $\frac{1}{2}$ | $\frac{1}{2}$ |
| 36       | 44               | 36               | 39               | 5 $\frac{1}{2}$ | 15 $\frac{1}{2}$ | 8 $\frac{1}{2}$  | 10 $\frac{1}{2}$ | 24 $\frac{1}{2}$ | 1 $\frac{1}{2}$ | $\frac{1}{2}$ |
| 42       | 52 $\frac{1}{2}$ | 42               | 45 $\frac{1}{2}$ | 6 $\frac{1}{2}$ | 18 $\frac{1}{2}$ | 9 $\frac{1}{2}$  | 9 $\frac{1}{2}$  | 25 $\frac{1}{2}$ | 1 $\frac{1}{2}$ | $\frac{1}{2}$ |
| 48       | 59               | 48               | 52               | 7 $\frac{1}{2}$ | 21 $\frac{1}{2}$ | 10               | 11 $\frac{1}{2}$ | 28 $\frac{1}{2}$ | 1 $\frac{1}{2}$ | $\frac{1}{2}$ |
| 54       | 65 $\frac{1}{2}$ | 54               | 58 $\frac{1}{2}$ | 8 $\frac{1}{2}$ | 21 $\frac{1}{2}$ | 10 $\frac{1}{2}$ | 11               | 30               | 1 $\frac{1}{2}$ | $\frac{1}{2}$ |



## 18" Sturtevant-Blackman Propeller Fan

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Room Resistances.  
 Volumes Measured by Anemometer Through Rectangular Opening in Wall. Co-efficient .82

| R.P.M. | Tip Speed F.P.M. | S.N.D. in Inches | Volume C.F.M. H. P.            | Volume C.F.M. H. P.                                | Volume C.F.M. H. P.                               | Volume C.F.M. H. P.                               | Volume C.F.M. H. P.                             | Volume C.F.M. H. P.                                 | Volume C.F.M. H. P.                                 | Volume C.F.M. H. P. |
|--------|------------------|------------------|--------------------------------|--|---|---|---|---|---|---------------------|
|        |                  |                  | Static Pressure Free Discharge | Static Pressure 1/4" Water .0722 ozs. per sq. inch | Static Pressure 1/4" Water .145 ozs. per sq. inch | Static Pressure 3/4" Water .217 ozs. per sq. inch | Static Pressure 1" Water .289 ozs. per sq. inch | Static Pressure 1 1/4" Water .434 ozs. per sq. inch | Static Pressure 1 1/2" Water .578 ozs. per sq. inch |                     |
| 467    | 2200             | 0.175            | 1,030 0.013                    | 337 0.045  |   |   |   |   |   |                     |
| 508    | 2400             | 0.209            | 1,120 0.017                    | 437 0.053  |   |   |   |   |   |                     |
| 552    | 2600             | 0.245            | 1,220 0.022                    | 619 0.061  |   |   |   |   |   |                     |
| 595    | 2800             | 0.285            | 1,310 0.027                    | 746 0.069  |   |   |   |   |   |                     |
| 637    | 3000             | 0.327            | 1,400 0.034                    | 882 0.077  | 381 0.125   |   |   |   |   |                     |
| 680    | 3200             | 0.372            | 1,500 0.041                    | 976 0.085  | 549 0.135   |   |   |   |   |                     |
| 722    | 3400             | 0.418            | 1,590 0.049                    | 1,080 0.096  | 690 0.150   |   |   |   |   |                     |
| 765    | 3600             | 0.470            | 1,680 0.058                    | 1,190 0.105  | 826 0.165   |   |   |   |   |                     |
| 807    | 3800             | 0.523            | 1,780 0.068                    | 1,290 0.120  | 966 0.185   | 570 0.240   |   |   |   |                     |
| 850    | 4000             | 0.580            | 1,880 0.080                    | 1,380 0.130  | 1,080 0.200                                       | 728 0.260   |   |   |   |                     |
| 892    | 4200             | 0.640            | 1,970 0.092                    | 1,500 0.145  | 1,200 0.215                                       | 876 0.285   | 489 0.350                                       |   |   |                     |
| 935    | 4400             | 0.703            | 2,060 0.105                    | 1,590 0.16   | 1,300 0.230                                       | 1,010 0.305                                       | 607 0.370                                       |   |   |                     |
| 974    | 4600             | 0.767            | 2,160 0.120                    |  | 1,420 0.250                                       | 1,130 0.330                                       | 830 0.400                                       |   |   |                     |
| 1020   | 4800             | 0.835            | 2,250 0.140                    |  | 1,530 0.270                                       | 1,260 0.355                                       | 966 0.425                                       |   |   |                     |
| 1060   | 5000             | 0.908            | 2,340 0.155                    |  | 1,630 0.290                                       | 1,380 0.380                                       | 1,100 0.455                                     |   |   |                     |
| 1114   | 5250             | 1.00             | 2,470 0.180                    |  | 1,760 0.320                                       | 1,530 0.415                                       | 1,260 0.495                                     | 705 0.65  |   |                     |
| 1109   | 5500             | 1.10             | 2,580 0.205                    |  | 1,890 0.350                                       | 1,680 0.455                                       | 1,430 0.54                                      | 912 0.71  |   |                     |
| 1220   | 5750             | 1.20             | 2,700 0.235                    |  | 2,020 0.385                                       | 1,810 0.475                                       | 1,580 0.58                                      | 1,110 0.75  |   |                     |
| 1273   | 6000             | 1.31             | 2,820 0.270                    |  | 2,140 0.420                                       | 1,940 0.52  | 1,740 0.61                                      | 1,270 0.81  | 753 1.00  |                     |
| 1328   | 6250             | 1.43             | 2,930 0.305                    |  | 2,260 0.455                                       | 2,060 0.55  | 1,870 0.66                                      | 1,450 0.87  | 983 1.05  |                     |
| 1380   | 6500             | 1.53             | 3,040 0.340                    |  |   | 2,190 0.60  | 2,010 0.71                                      | 1,590 0.93  | 1,160 1.15  |                     |
| 1433   | 6750             | 1.65             | 3,160 0.380                    |  |   | 2,330 0.64  | 2,140 0.75                                      | 1,770 0.99  | 1,360 1.2   |                     |
| 1485   | 7000             | 1.77             | 3,280 0.425                    |  |   | 2,450 0.69  | 2,270 0.81                                      | 1,910 1.05  | 1,520 1.3   |                     |

## 24" Sturtevant-Blackman Propeller Fan

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Room Resistances.  
 Volumes Measured by Anemometer Through Rectangular Opening in Wall. Co-efficient .82

| R.P.M. | Tip Speed F.P.M. | S.N.D. in Inches | Static Pressure Free Discharge | Static Pressure 1/4" Water .0722 ozs. per sq. inch | Static Pressure 1/4" Water .145 ozs. per sq. inch | Static Pressure 3/4" Water .217 ozs. per sq. inch | Static Pressure 1" Water .289 ozs. per sq. inch | Static Pressure 1 1/4" Water .434 ozs. per sq. inch | Static Pressure 1 1/2" Water .578 ozs. per sq. inch |  |
|--------|------------------|------------------|--------------------------------|--|---|---|---|---|---|--|
| 351    | 2200             | 0.175            | 1,830 0.024                    | 600 0.083  |   |   |   |   |   |  |
| 382    | 2400             | 0.209            | 2,000 0.031                    | 867 0.095  |   |   |   |   |   |  |
| 415    | 2600             | 0.245            | 2,170 0.039                    | 1,100 0.110  |   |   |   |   |   |  |
| 446    | 2800             | 0.285            | 2,330 0.049                    | 1,330 0.125  |   |   |   |   |   |  |
| 478    | 3000             | 0.327            | 2,490 0.060                    | 1,540 0.135  | 680 0.225   |   |   |   |   |  |
| 508    | 3200             | 0.372            | 2,670 0.073                    | 1,740 0.160  | 979 0.245   |   |   |   |   |  |
| 541    | 3400             | 0.418            | 2,830 0.087                    | 1,930 0.170  | 1,230 0.270                                       |   |   |   |   |  |
| 575    | 3600             | 0.470            | 3,000 0.105                    | 2,110 0.190  | 1,470 0.300                                       |   |   |   |   |  |
| 606    | 3800             | 0.523            | 3,170 0.120                    | 2,290 0.210  | 1,720 0.330                                       | 1,020 0.425                                       |   |   |   |  |
| 637    | 4000             | 0.580            | 3,340 0.140                    | 2,460 0.230  | 1,920 0.355                                       | 1,290 0.465                                       |   |   |   |  |
| 670    | 4200             | 0.640            | 3,500 0.165                    | 2,670 0.255  | 2,140 0.385                                       | 1,560 0.50  | 871 0.62  |   |   |  |
| 700    | 4400             | 0.703            | 3,660 0.190                    | 2,840 0.285  | 2,320 0.415                                       | 1,800 0.55  | 1,190 0.66                                      |   |   |  |
| 734    | 4600             | 0.767            | 3,830 0.215                    |  | 2,530 0.45  | 2,010 0.59  | 1,480 0.72                                      |   |   |  |
| 765    | 4800             | 0.835            | 4,000 0.245                    |  | 2,720 0.48  | 2,230 0.63  | 1,720 0.75                                      |   |   |  |
| 796    | 5000             | 0.908            | 4,160 0.28                     |  | 2,910 0.52  | 2,450 0.68  | 1,970 0.81                                      |   |   |  |
| 836    | 5250             | 1.00             | 4,390 0.32                     |  | 3,140 0.57  | 2,720 0.74  | 2,250 0.88                                      | 1,250 1.15  |   |  |
| 876    | 5500             | 1.10             | 4,590 0.37                     |  | 3,370 0.62  | 3,000 0.81  | 2,540 0.96                                      | 1,620 1.25  |   |  |
| 916    | 5750             | 1.20             | 4,790 0.42                     |  | 3,600 0.69  | 3,210 0.84  | 2,820 1.05                                      | 1,970 1.35  |   |  |
| 956    | 6000             | 1.31             | 5,020 0.48                     |  | 3,810 0.75  | 3,480 0.92  | 3,090 1.10                                      | 2,260 1.45  | 1,340 1.80  |  |
| 996    | 6250             | 1.43             | 5,220 0.54                     |  | 4,020 0.81  | 3,680 0.98  | 3,340 1.20                                      | 2,570 1.55  | 1,750 1.90  |  |
| 1035   | 6500             | 1.53             | 5,430 0.61                     |  |   | 3,900 1.05  | 3,580 1.25                                      | 2,840 1.65  | 2,060 2.00  |  |
| 1074   | 6750             | 1.65             | 5,630 0.68                     |  |   | 4,140 1.15  | 3,820 1.35                                      | 3,140 1.75  | 2,420 2.15  |  |
| 1114   | 7000             | 1.77             | 5,840 0.76                     |  |   | 4,350 1.25  | 4,050 1.45                                      | 3,410 1.85  | 2,710 2.25  |  |

## 30" Sturtevant-Blackman Propeller Fan

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Room Resistances.  
Volumes Measured by Anemometer Through Rectangular Opening in Wall. Co-efficient .82

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M. H. P. Static Pressure Free Discharge | Volume C.F.M. H. P. Static Pressure 1/4" Water .0722 oss. per sq. inch | Volume C.F.M. H. P. Static Pressure 1/2" Water .145 oss. per sq. inch | Volume C.F.M. H. P. Static Pressure 3/4" Water .217 oss. per sq. inch | Volume C.F.M. H. P. Static Pressure 1" Water .289 oss. per sq. inch | Volume C.F.M. H. P. Static Pressure 1 1/4" Water .354 oss. per sq. inch | Volume C.F.M. H. P. Static Pressure 1 1/2" Water .434 oss. per sq. inch | Volume C.F.M. H. P. Static Pressure 1 3/4" Water .518 oss. per sq. inch |
|--------|------------------|------------------|--|--|---|---|---|---|---|---|
| 280    | 2200             | 0.175            | 2,860 0.037  | 940 0.130  |   |   |   |   |   |   |
| 306    | 2400             | 0.209            | 3,130 0.048  | 1,360 0.150  |   |   |   |   |   |   |
| 330    | 2600             | 0.245            | 3,390 0.061  | 1,720 0.170  |   |   |   |   |   |   |
| 356    | 2800             | 0.285            | 3,650 0.076  | 2,080 0.190  |   |   |   |   |   |   |
| 382    | 3000             | 0.327            | 3,900 0.094  | 2,400 0.215  | 1,060 0.350   |   |   |   |   |   |
| 408    | 3200             | 0.372            | 4,170 0.115  | 2,720 0.245  | 1,530 0.380   |   |   |   |   |   |
| 433    | 3400             | 0.418            | 4,430 0.135  | 3,010 0.265  | 1,920 0.420   |   |   |   |   |   |
| 459    | 3600             | 0.470            | 4,690 0.160  | 3,300 0.295  | 2,300 0.465   |   |   |   |   |   |
| 485    | 3800             | 0.523            | 4,950 0.190  | 3,580 0.330  | 2,690 0.52  | 1,590 0.67  |   |   |   |   |
| 510    | 4000             | 0.580            | 5,220 0.220  | 3,850 0.360  | 3,000 0.55  | 2,020 0.73  |   |   |   |   |
| 535    | 4200             | 0.640            | 5,460 0.255  | 4,160 0.400  | 3,340 0.60  | 2,440 0.79  | 1,360 0.97  |   |   |   |
| 560    | 4400             | 0.703            | 5,730 0.295  | 4,430 0.445  | 3,630 0.65  | 2,810 0.85  | 1,860 1.05  |   |   |   |
| 585    | 4600             | 0.767            | 6,000 0.335  |  | 3,960 0.70  | 3,140 0.92  | 2,310 1.10  |   |   |   |
| 611    | 4800             | 0.835            | 6,260 0.385  |  | 4,250 0.75  | 3,510 0.98  | 2,690 1.20  |   |   |   |
| 636    | 5000             | 0.908            | 6,520 0.435  |  | 4,550 0.81  | 3,830 1.05  | 3,070 1.25  |   |   |   |
| 669    | 5250             | 1.00             | 6,840 0.50   |  | 4,900 0.89  | 4,260 1.15  | 3,520 1.35  | 1,960 1.80  |   |   |
| 700    | 5500             | 1.10             | 7,160 0.58   |  | 5,270 0.97  | 4,680 1.25  | 3,970 1.50  | 2,540 2.00  |   |   |
| 732    | 5750             | 1.20             | 7,500 0.66   |  | 5,620 1.10  | 5,020 1.30  | 4,400 1.60  | 3,080 2.10  |   |   |
| 765    | 6000             | 1.31             | 7,840 0.75   |  | 5,960 1.15  | 5,400 1.45  | 4,850 1.70  | 3,540 2.25  | 2,090 2.80  |   |
| 796    | 6250             | 1.43             | 8,150 0.85   |  | 6,300 1.25  | 5,740 1.55  | 5,200 1.85  | 4,020 2.40  | 2,730 3.00  |   |
| 826    | 6500             | 1.53             | 8,460 0.95   |  |   | 6,100 1.7   | 5,590 1.95  | 4,430 2.60  | 3,220 3.15  |   |
| 860    | 6750             | 1.65             | 8,800 1.05   |  |   | 6,470 1.8   | 5,960 2.10  | 4,910 2.75  | 3,770 3.35  |   |
| 891    | 7000             | 1.77             | 9,130 1.2  |  |   | 6,810 1.9   | 6,330 2.25  | 5,330 2.95  | 4,230 3.55  |   |

## 36" Sturtevant-Blackman Propeller Fan

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Room Resistances.  
Volumes Measured by Anemometer Through Rectangular Opening in Wall. Co-efficient .82

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure Free Discharge | Static Pressure 1/4" Water .0722 oss. per sq. inch | Static Pressure 1/2" Water .145 oss. per sq. inch | Static Pressure 3/4" Water .217 oss. per sq. inch | Static Pressure 1" Water .289 oss. per sq. inch | Static Pressure 1 1/4" Water .354 oss. per sq. inch | Static Pressure 1 1/2" Water .434 oss. per sq. inch | Static Pressure 1 3/4" Water .518 oss. per sq. inch |
|--------|------------------|------------------|--------------------------------|--|---|---|---|---|---|---|
| 233    | 2200             | 0.175            | 4,113 0.053                    | 1,350 0.185  |   |   |   |   |   |   |
| 255    | 2400             | 0.209            | 4,510 0.069                    | 1,950 0.215  |   |   |   |   |   |   |
| 276    | 2600             | 0.245            | 4,880 0.087                    | 2,480 0.215  |   |   |   |   |   |   |
| 297    | 2800             | 0.285            | 5,250 0.110                    | 2,990 0.275  |   |   |   |   |   |   |
| 318    | 3000             | 0.327            | 5,610 0.135                    | 3,450 0.310  | 1,530 0.50  |   |   |   |   |   |
| 340    | 3200             | 0.372            | 6,000 0.165                    | 3,910 0.355  | 2,200 0.55  |   |   |   |   |   |
| 361    | 3400             | 0.418            | 6,360 0.195                    | 4,320 0.385  | 2,766 0.60  |   |   |   |   |   |
| 382    | 3600             | 0.470            | 6,750 0.230                    | 4,750 0.42   | 3,310 0.67  |   |   |   |   |   |
| 408    | 3800             | 0.523            | 7,120 0.275                    | 5,150 0.47   | 3,870 0.74  | 2,240 0.96  |   |   |   |   |
| 425    | 4000             | 0.580            | 7,510 0.320                    | 5,540 0.52   | 4,320 0.80  | 2,910 1.05  |   |   |   |   |
| 445    | 4200             | 0.640            | 7,870 0.370                    | 6,000 0.58   | 4,800 0.86  | 3,510 1.15  | 1,960 1.40                                      |   |   |   |
| 467    | 4400             | 0.703            | 8,240 0.425                    | 6,360 0.64   | 5,220 0.93  | 4,040 1.25  | 2,670 1.50                                      |   |   |   |
| 488    | 4600             | 0.767            | 8,630 0.485                    |  | 5,690 1.00  | 4,520 1.30  | 3,320 1.60                                      |   |   |   |
| 510    | 4800             | 0.835            | 9,010 0.55                     |  | 6,110 1.10  | 5,050 1.40  | 3,870 1.70                                      |   |   |   |
| 531    | 5000             | 0.908            | 9,380 0.62                     |  | 6,540 1.15  | 5,510 1.50  | 4,420 1.80                                      |   |   |   |
| 557    | 5250             | 1.00             | 9,850 0.72                     |  | 7,060 1.25  | 6,120 1.65  | 5,050 1.95                                      | 2,820 2.60  |   |   |
| 584    | 5500             | 1.10             | 10,300 0.83                    |  | 7,580 1.40  | 6,730 1.80  | 5,710 2.15                                      | 3,650 2.85  |   |   |
| 610    | 5750             | 1.20             | 10,800 0.95                    |  | 8,090 1.55  | 7,240 1.90  | 6,340 2.35                                      | 4,430 3.00  |   |   |
| 637    | 6000             | 1.31             | 11,300 1.10                    |  | 8,560 1.65  | 7,750 2.05  | 6,960 2.45                                      | 5,090 3.20  | 3,020 4.0   |   |
| 663    | 6250             | 1.43             | 11,700 1.20                    |  | 9,050 1.8   | 8,270 2.20  | 7,470 2.65                                      | 5,790 3.50  | 3,940 4.3   |   |
| 690    | 6500             | 1.53             | 12,200 1.35                    |  |   | 8,780 2.40  | 8,040 2.85                                      | 6,380 3.70  | 4,630 4.5   |   |
| 716    | 6750             | 1.65             | 12,700 1.55                    |  |   | 9,310 2.55  | 8,610 3.00                                      | 7,070 3.95  | 5,430 4.8   |   |
| 743    | 7000             | 1.77             | 13,100 1.7                     |  |   | 9,810 2.75  | 9,100 3.25                                      | 7,670 4.2   | 6,100 5.1   |   |

## 42" Sturtevant-Blackman Propeller Fan

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Room Resistance  
Volumes Measured by Anemometer Through Rectangular Opening in Wall. Co-efficient .82

| R.P.M. | Tip Speed F.P.M. | S.N.D. in Inches | Volume C.F.M.                  | H. P. | Volume C.F.M.                                      | H. P. | Volume C.F.M.                                     | H. P. | Volume C.F.M.                                     | H. P. | Volume C.F.M.                                     | H. P. | Volume C.F.M.                                     | H. P. | Volume C.F.M.                                   | H. P. |
|--------|------------------|------------------|--------------------------------|-------|--|-------|---|-------|---|-------|---|-------|---|-------|---|-------|
|        |                  |                  | Static Pressure Free Discharge |       | Static Pressure 1/2" Water .0722 ozs. per sq. inch |       | Static Pressure 1/2" Water .145 ozs. per sq. inch |       | Static Pressure 1/2" Water .217 ozs. per sq. inch |       | Static Pressure 1/2" Water .289 ozs. per sq. inch |       | Static Pressure 1/2" Water .434 ozs. per sq. inch |       | Static Pressure 1" Water .578 ozs. per sq. inch |       |
| 200    | 2200             | 0.175            | 5,610                          | 0.072 | 1,840  | 0.255 |   |       |   |       |   |       |   |       |   |       |
| 218    | 2400             | 0.209            | 6,130                          | 0.094 | 2,650  | 0.290 |   |       |   |       |   |       |   |       |   |       |
| 236    | 2600             | 0.245            | 6,640                          | 0.120 | 3,370  | 0.330 |   |       |   |       |   |       |   |       |   |       |
| 255    | 2800             | 0.285            | 7,140                          | 0.150 | 4,070  | 0.375 |   |       |   |       |   |       |   |       |   |       |
| 273    | 3000             | 0.327            | 7,640                          | 0.185 | 4,700  | 0.42  | 2,080   | 0.68  |   |       |   |       |   |       |   |       |
| 291    | 3200             | 0.372            | 8,160                          | 0.220 | 5,330  | 0.48  | 2,990   | 0.75  |   |       |   |       |   |       |   |       |
| 309    | 3400             | 0.418            | 8,660                          | 0.265 | 5,890  | 0.52  | 3,760   | 0.82  |   |       |   |       |   |       |   |       |
| 329    | 3600             | 0.470            | 9,180                          | 0.315 | 6,470  | 0.58  | 4,500   | 0.91  |   |       |   |       |   |       |   |       |
| 346    | 3800             | 0.523            | 9,700                          | 0.370 | 7,020  | 0.64  | 5,200   | 1.00  | 3,110   | 1.30  |   |       |   |       |   |       |
| 364    | 4000             | 0.580            | 10,200                         | 0.435 | 7,540  | 0.71  | 5,800   | 1.10  | 3,970   | 1.45  |   |       |   |       |   |       |
| 382    | 4200             | 0.640            | 10,700                         | 0.50  | 8,160  | 0.79  | 6,550   | 1.15  | 4,780   | 1.55  | 2,660   | 1.90  |   |       |   |       |
| 400    | 4400             | 0.703            | 11,200                         | 0.58  | 8,690  | 0.87  | 7,100   | 1.25  | 5,500   | 1.65  | 3,640   | 2.00  |   |       |   |       |
| 418    | 4600             | 0.767            | 11,700                         | 0.66  |  |       | 7,750   | 1.35  | 6,160   | 1.80  | 4,520   | 2.20  |   |       |   |       |
| 436    | 4800             | 0.835            | 12,300                         | 0.75  |  |       | 8,330   | 1.45  | 6,880   | 1.95  | 5,260   | 2.30  |   |       |   |       |
| 455    | 5000             | 0.908            | 12,800                         | 0.85  |  |       | 8,900   | 1.60  | 7,500   | 2.05  | 6,010   | 2.50  |   |       |   |       |
| 478    | 5250             | 1.00             | 13,400                         | 0.98  |  |       | 9,600   | 1.75  | 8,310   | 2.25  | 6,880   | 2.70  | 3,840   | 3.55  |   |       |
| 500    | 5500             | 1.10             | 14,000                         | 1.15  |  |       | 10,300  | 1.9   | 9,160   | 2.50  | 7,770   | 2.95  | 4,970   | 3.85  |   |       |
| 523    | 5750             | 1.20             | 14,700                         | 1.30  |  |       | 11,000  | 2.1   | 9,830   | 2.60  | 8,630   | 3.15  | 6,030   | 4.10  |   |       |
| 545    | 6000             | 1.31             | 15,300                         | 1.45  |  |       | 11,700  | 2.3   | 10,600  | 2.80  | 9,480   | 3.35  | 6,930   | 4.40  | 4,100   | 5.    |
| 569    | 6250             | 1.43             | 15,900                         | 1.65  |  |       | 12,300  | 2.5   | 11,300  | 3.00  | 10,200  | 3.60  | 7,880   | 4.75  | 5,360   | 5     |
| 591    | 6500             | 1.53             | 16,600                         | 1.85  |  |       |   |       | 12,000  | 3.30  | 11,000  | 3.85  | 8,690   | 5.1   | 6,300   | 6.    |
| 614    | 6750             | 1.65             | 17,200                         | 2.10  |  |       |   |       | 12,700  | 3.50  | 11,700  | 4.1   | 9,620   | 5.4   | 7,400   | 6.    |
| 636    | 7000             | 1.77             | 17,900                         | 2.35  |  |       |   |       | 13,400  | 3.75  | 12,400  | 4.4   | 10,400  | 5.7   | 8,300   | 7     |

## 48" Sturtevant-Blackman Propeller Fan

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Room Resistances  
Volumes Measured by Anemometer Through Rectangular Opening in Wall. Co-efficient .82

| R.P.M. | Tip Speed<br>F.P.M. | S.N.D.<br>in<br>inches | Static Pressure<br>Free Discharge | Static Pressure<br>1/2" Water<br>.0722 ozs. per<br>sq. inch | Static Pressure<br>1/2" Water<br>.145 ozs. per<br>sq. inch | Static Pressure<br>3/4" Water<br>.217 ozs. per<br>sq. inch | Static Pressure<br>1" Water<br>.289 ozs. per<br>sq. inch | Static Pressure<br>3/4" Water<br>.434 ozs. per<br>sq. inch | Static Pressure<br>1" Water<br>.578 ozs. per<br>sq. inch |
|--------|---------------------|------------------------|-----------------------------------|---|--|--|--|--|--|
| 175    | 2200                | 0.175                  | 7,310                             | 0.094   | 2,400  | 0.33   |  |  |  |
| 191    | 2400                | 0.209                  | 8,000                             | 0.125   | 3,460  | 0.38   |  |  |  |
| 207    | 2600                | 0.245                  | 8,660                             | 0.155   | 4,400  | 0.43   |  |  |  |
| 223    | 2800                | 0.285                  | 9,320                             | 0.195   | 5,310  | 0.49   |  |  |  |
| 239    | 3000                | 0.327                  | 9,960                             | 0.240   | 6,140  | 0.55   | 2,710  | 0.89   |  |
| 255    | 3200                | 0.372                  | 10,700                            | 0.290   | 6,950  | 0.63   | 3,900  | 0.98   |  |
| 271    | 3400                | 0.418                  | 11,300                            | 0.350   | 7,690  | 0.68   | 4,000  | 1.05   |  |
| 287    | 3600                | 0.470                  | 12,000                            | 0.415   | 8,450  | 0.75   | 5,880  | 1.20   |  |
| 302    | 3800                | 0.523                  | 12,700                            | 0.485   | 9,170  | 0.84   | 6,860  | 1.30   | 4,050  |
| 319    | 4000                | 0.580                  | 13,300                            | 0.57  | 9,850  | 0.92   | 7,680  | 1.40   | 5,170  |
| 334    | 4200                | 0.640                  | 13,900                            | 0.66  | 10,700   | 1.05   | 8,540  | 1.50   | 6,230  |
| 350    | 4400                | 0.703                  | 14,600                            | 0.75  | 11,300   | 1.15   | 9,270  | 1.65   | 7,180  |
| 366    | 4600                | 0.767                  | 15,300                            | 0.86  |  |  | 10,100   | 1.80   | 8,040  |
| 382    | 4800                | 0.835                  | 16,000                            | 0.98  |  |  | 10,900   | 1.90   | 8,980  |
| 398    | 5000                | 0.908                  | 16,600                            | 1.10  |  |  | 11,600   | 2.05   | 9,800  |
| 418    | 5250                | 1.00                   | 17,400                            | 1.30  |  |  | 12,600   | 2.25   | 10,900   |
| 438    | 5500                | 1.10                   | 18,300                            | 1.45  |  |  | 13,500   | 2.50   | 12,000   |
| 458    | 5750                | 1.20                   | 19,200                            | 1.70  |  |  | 14,400   | 2.75   | 12,800   |
| 478    | 6000                | 1.31                   | 20,000                            | 1.90  |  |  | 15,200   | 3.00   | 13,800   |
| 490    | 6250                | 1.43                   | 20,800                            | 2.15  |  |  | 16,100   | 3.25   | 14,700   |
| 517    | 6500                | 1.53                   | 21,600                            | 2.45  |  |  |  |  | 15,600   |
| 537    | 6750                | 1.65                   | 22,500                            | 2.70  |  |  |  |  | 16,500   |
| 557    | 7000                | 1.77                   | 23,300                            | 3.05  |  |  |  |  | 17,400   |
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## 54" Sturtevant-Blackman Propeller Fan

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Room Resistances.  
Volumes Measured by Anemometer Through Rectangular Opening in Wall. Co-efficient .82

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M. H. P.            | Volume C.F.M. H. P.                                | Volume C.F.M. H. P.                               | Volume C.F.M. H. P.                               | Volume C.F.M. H. P.                               | Volume C.F.M. H. P.                               | Volume C.F.M. H. P.                             | Volume C.F.M. H. P. | Volume C.F.M. H. P. | Volume C.F.M. H. P. | Volume C.F.M. H. P. | Volume C.F.M. H. P. | Volume C.F.M. H. P. |
|--------|------------------|------------------|--------------------------------|--|---|---|---|---|---|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
|        |                  |                  | Static Pressure Free Discharge | Static Pressure 1/2" Water .0722 ozs. per sq. inch | Static Pressure 1/4" Water .145 ozs. per sq. inch | Static Pressure 3/8" Water .217 ozs. per sq. inch | Static Pressure 1/2" Water .289 ozs. per sq. inch | Static Pressure 3/4" Water .434 ozs. per sq. inch | Static Pressure 1" Water .578 ozs. per sq. inch |                     |                     |                     |                     |                     |                     |
| 156    | 2200             | 0 175            | 9,280                          | 0.120  | 3,040   | 0.42  |   |   |   |                     |                     |                     |                     |                     |                     |
| 170    | 2400             | 0 209            | 10,100                         | 0.155  | 4,390   | 0.48  |   |   |   |                     |                     |                     |                     |                     |                     |
| 184    | 2600             | 0 245            | 11,000                         | 0.195  | 5,590   | 0.55  |   |   |   |                     |                     |                     |                     |                     |                     |
| 198    | 2800             | 0 285            | 11,800                         | 0.245  | 6,730   | 0.62  |   |   |   |                     |                     |                     |                     |                     |                     |
| 212    | 3000             | 0 327            | 12,600                         | 0.305  | 7,780   | 0.70  | 3,440   | 1.15  |   |                     |                     |                     |                     |                     |                     |
| 226    | 3200             | 0 372            | 13,500                         | 0.365  | 8,800   | 0.80  | 4,950   | 1.25  |   |                     |                     |                     |                     |                     |                     |
| 240    | 3400             | 0 418            | 14,300                         | 0.44   | 9,750   | 0.86  | 6,220   | 1.35  |   |                     |                     |                     |                     |                     |                     |
| 255    | 3600             | 0 470            | 15,200                         | 0.52   | 10,700  | 0.95  | 7,440   | 1.50  |   |                     |                     |                     |                     |                     |                     |
| 269    | 3800             | 0 523            | 16,000                         | 0.62   | 11,600  | 1.05  | 8,700   | 1.65  | 5,140   | 2.15                |                     |                     |                     |                     |                     |
| 283    | 4000             | 0 580            | 16,900                         | 0.72   | 12,500  | 1.15  | 9,730   | 1.80  | 6,550   | 2.35                |                     |                     |                     |                     |                     |
| 297    | 4200             | 0 640            | 17,700                         | 0.83   | 13,500  | 1.3   | 10,800  | 1.95  | 7,900   | 2.55                | 4,400               | 3.15                |                     |                     |                     |
| 311    | 4400             | 0 703            | 18,600                         | 0.95   | 14,300  | 1.4   | 11,800  | 2.10  | 9,100   | 2.75                | 6,000               | 3.35                |                     |                     |                     |
| 325    | 4600             | 0 767            | 19,400                         | 1.10   |   |   | 12,800  | 2.25  | 10,200  | 3.00                | 7,470               | 3.60                |                     |                     |                     |
| 340    | 4800             | 0 835            | 20,200                         | 1.25   |   |   | 13,800  | 2.45  | 11,400  | 3.20                | 8,700               | 3.80                |                     |                     |                     |
| 354    | 5000             | 0 908            | 21,100                         | 1.40   |   |   | 14,700  | 2.60  | 12,400  | 3.40                | 9,940               | 4.10                |                     |                     |                     |
| 372    | 5250             | 1 00             | 22,100                         | 1.60   |   |   | 15,900  | 2.85  | 13,800  | 3.75                | 11,400              | 4.45                | 6,350               | 5.9                 |                     |
| 389    | 5500             | 1 10             | 23,200                         | 1.85   |   |   | 17,000  | 3.15  | 15,200  | 4.10                | 12,900              | 4.85                | 8,210               | 6.4                 |                     |
| 407    | 5750             | 1 20             | 24,200                         | 2.15   |   |   | 18,200  | 3.50  | 16,300  | 4.25                | 14,300              | 5.2                 | 9,960               | 6.8                 |                     |
| 425    | 6000             | 1 31             | 25,300                         | 2.40   |   |   | 19,300  | 3.75  | 17,500  | 4.65                | 15,700              | 5.5                 | 11,500              | 7.3                 | 6,780               |
| 442    | 6250             | 1 43             | 26,300                         | 2.75   |   |   | 20,400  | 4.1   | 18,600  | 5.0                 | 16,800              | 6.0                 | 13,000              | 7.8                 | 8,850               |
| 460    | 6500             | 1 53             | 27,400                         | 3.10   |   |   |   |   | 19,800  | 5.4                 | 18,100              | 6.4                 | 14,300              | 8.4                 | 10,400              |
| 478    | 6750             | 1 65             | 28,500                         | 3.45   |   |   |   |   | 20,900  | 5.8                 | 19,300              | 6.8                 | 15,900              | 8.9                 | 12,200              |
| 495    | 7000             | 1 77             | 29,500                         | 3.85   |   |   |   |   | 22,100  | 6.2                 | 20,500              | 7.3                 | 17,200              | 9.5                 | 13,700              |

## 60" Sturtevant-Blackman Propeller Fan

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Room Resistances.  
Volumes Measured by Anemometer Through Rectangular Opening in Wall. Co-efficient .82

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure Free Discharge | Static Pressure 1/2" Water .0722 ozs. per sq. inch | Static Pressure 1/4" Water .145 ozs. per sq. inch | Static Pressure 3/8" Water .217 ozs. per sq. inch | Static Pressure 1/2" Water .289 ozs. per sq. inch | Static Pressure 3/4" Water .434 ozs. per sq. inch | Static Pressure 1" Water .578 ozs. per sq. inch |      |        |      |        |      |        |
|--------|------------------|------------------|--------------------------------|--|---|---|---|---|---|------|--------|------|--------|------|--------|
| 140    | 2200             | 0 175            | 11,500                         | 0.150  | 3,750   | 0.52  |   |   |   |      |        |      |        |      |        |
| 153    | 2400             | 0 209            | 12,500                         | 0.190  | 5,430   | 0.60  |   |   |   |      |        |      |        |      |        |
| 166    | 2600             | 0 245            | 13,600                         | 0.240  | 6,900   | 0.68  |   |   |   |      |        |      |        |      |        |
| 178    | 2800             | 0 285            | 14,600                         | 0.305  | 8,310   | 0.77  |   |   |   |      |        |      |        |      |        |
| 198    | 3000             | 0 327            | 15,600                         | 0.375  | 9,600   | 0.86  | 4,240   | 1.40  |   |      |        |      |        |      |        |
| 204    | 3200             | 0 372            | 16,700                         | 0.455  | 10,900  | 0.99  | 6,110   | 1.55  |   |      |        |      |        |      |        |
| 216    | 3400             | 0 418            | 17,700                         | 0.55   | 12,000  | 1.05  | 7,090   | 1.70  |   |      |        |      |        |      |        |
| 229    | 3600             | 0 470            | 18,700                         | 0.65   | 13,200  | 1.20  | 9,200   | 1.85  |   |      |        |      |        |      |        |
| 242    | 3800             | 0 523            | 19,800                         | 0.76   | 14,300  | 1.30  | 10,800  | 2.05  | 6,350   | 2.65 |        |      |        |      |        |
| 255    | 4000             | 0 580            | 20,900                         | 0.89   | 15,400  | 1.45  | 12,000  | 2.20  | 8,100   | 2.90 |        |      |        |      |        |
| 268    | 4200             | 0 640            | 21,900                         | 1.05   | 16,700  | 1.60  | 13,400  | 2.40  | 9,750   | 3.15 | 5,440  | 3.90 |        |      |        |
| 280    | 4400             | 0 703            | 22,900                         | 1.20   | 17,700  | 1.75  | 14,500  | 2.60  | 11,200  | 3.40 | 7,430  | 4.10 |        |      |        |
| 293    | 4600             | 0 767            | 23,900                         | 1.35   |   |   | 15,800  | 2.80  | 12,600  | 3.65 | 9,230  | 4.45 |        |      |        |
| 306    | 4800             | 0 835            | 25,000                         | 1.55   |   |   | 17,000  | 3.00  | 14,100  | 3.95 | 10,800 | 4.7  |        |      |        |
| 319    | 5000             | 0 908            | 26,000                         | 1.75   |   |   | 18,200  | 3.25  | 15,300  | 4.25 | 12,300 | 5.1  |        |      |        |
| 334    | 5250             | 1 00             | 27,300                         | 2.00   |   |   | 19,600  | 3.55  | 17,000  | 4.65 | 14,100 | 5.5  | 7,840  | 7.2  |        |
| 350    | 5500             | 1 10             | 28,600                         | 2.30   |   |   | 21,000  | 3.90  | 18,700  | 5.1  | 15,900 | 6.0  | 10,200 | 7.9  |        |
| 366    | 5750             | 1 20             | 30,000                         | 2.65   |   |   | 22,500  | 4.30  | 20,100  | 5.3  | 17,600 | 6.5  | 12,300 | 8.4  |        |
| 382    | 6000             | 1 31             | 31,300                         | 3.00   |   |   | 23,800  | 4.65  | 21,600  | 5.8  | 19,400 | 6.8  | 14,200 | 9.0  | 8,390  |
| 398    | 6250             | 1 43             | 32,500                         | 3.40   |   |   | 25,100  | 5.7   | 23,000  | 6.2  | 20,800 | 7.4  | 16,100 | 9.7  | 10,900 |
| 414    | 6500             | 1 53             | 33,800                         | 3.80   |   |   |   |   | 24,400  | 6.7  | 22,400 | 7.9  | 17,700 | 10.5 | 12,900 |
| 430    | 6750             | 1 65             | 35,200                         | 4.25   |   |   |   |   | 25,900  | 7.1  | 23,900 | 8.4  | 19,600 | 11.0 | 15,100 |
| 446    | 7000             | 1 77             | 36,400                         | 4.75   |   |   |   |   | 27,000  | 7.7  | 25,300 | 9    | 21,300 | 11.5 | 16,900 |

## 66" Sturtevant-Blackman Propeller Fan

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Room Resistances  
Volumes Measured by Anemometer Through Rectangular Opening in Wall. Co-efficient .82

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M. H. P.            | Volume C.F.M. H. P.                                | Volume C.F.M. H. P.                               | Volume C.F.M. H. P.                             | Volume C.F.M. H. P.                                 | Volume C.F.M. H. P.                                 | Volume C.F.M. H. P.                                 | Volume C.F.M. H. P. |
|--------|------------------|------------------|--------------------------------|--|---|---|---|---|---|---------------------|
|        |                  |                  | Static Pressure Free Discharge | Static Pressure 1/2" Water .0722 ozs. per sq. inch | Static Pressure 3/4" Water .145 ozs. per sq. inch | Static Pressure 1" Water .217 ozs. per sq. inch | Static Pressure 1 1/4" Water .289 ozs. per sq. inch | Static Pressure 1 1/2" Water .434 ozs. per sq. inch | Static Pressure 1 3/4" Water .578 ozs. per sq. inch |                     |
| 127    | 2200             | 0 175            | 13,900 0 180                   | 4,550 0 63   |   |   |   |   |   |                     |
| 139    | 2400             | 0 209            | 15,200 0 230                   | 6,570 0 72   |   |   |   |   |   |                     |
| 150    | 2600             | 0 245            | 16,400 0 265                   | 8,360 0 82   |   |   |   |   |   |                     |
| 162    | 2800             | 0 285            | 17,700 0 370                   | 10,100 0 93  |   |   |   |   |   |                     |
| 174    | 3000             | 0 327            | 18,900 0 435                   | 11,600 1 05  | 5,140 1 70  |   |   |   |   |                     |
| 185    | 3200             | 0 372            | 20,200 0 55                    | 13,200 1 20  | 7,400 1 85  |   |   |   |   |                     |
| 197    | 3400             | 0 418            | 21,400 0 66                    | 14,600 1 30  | 9,300 2 05  |   |   |   |   |                     |
| 208    | 3600             | 0 470            | 22,700 0 78                    | 16,000 1 40  | 11,100 2 25                                       |   |   |   |   |                     |
| 220    | 3800             | 0 523            | 24,000 0 92                    | 17,400 1 60  | 13,000 2 50                                       | 7,690 3 20                                      |   |   |   |                     |
| 231    | 4000             | 0 580            | 25,300 1 05                    | 18,700 1 75  | 14,500 2 65                                       | 9,810 3 50                                      |   |   |   |                     |
| 243    | 4200             | 0 640            | 26,500 1 25                    | 20,200 1 95  | 16,200 2 90                                       | 11,800 3 80                                     | 6,600 4 7   |   |   |                     |
| 255    | 4400             | 0 703            | 27,700 1 45                    | 21,400 2 15  | 17,600 3 15                                       | 13,600 4 15                                     | 9,000 5 0   |   |   |                     |
| 266    | 4600             | 0 767            | 29,000 1 65                    |  | 19,200 3 40                                       | 15,200 4 45                                     | 11,200 5 4  |   |   |                     |
| 278    | 4800             | 0 835            | 30,300 1 85                    |  | 20,600 3 65                                       | 17,000 4 75                                     | 13,000 5 7  |   |   |                     |
| 289    | 5000             | 0 908            | 31,600 2 10                    |  | 22,000 3 9  | 18,600 5 1                                      | 14,800 6 1  |   |   |                     |
| 304    | 5250             | 1 00             | 33,100 2 45                    |  | 23,800 4 3  | 20,600 5 6                                      | 17,000 6 6  | 9,500 8 8   |   |                     |
| 318    | 5500             | 1 10             | 34,700 2 80                    |  | 25,500 4 7  | 22,600 6 1                                      | 19,200 7 3  | 12,300 9 6  |   |                     |
| 333    | 5750             | 1 20             | 36,300 3 20                    |  | 27,200 5 2  | 24,300 6 4                                      | 21,400 7 8  | 14,900 10 0   |   |                     |
| 347    | 6000             | 1 31             | 37,900 3 65                    |  | 28,900 5 6  | 26,200 7 0                                      | 23,400 8 3  | 17,200 11 0   | 10,200 13 5   |                     |
| 361    | 6250             | 1 43             | 39,400 4 1                     |  | 30,400 6 1  | 27,900 7 4                                      | 25,200 8 9  | 19,500 12 0   | 13,200 14 5   |                     |
| 375    | 6500             | 1 53             | 41,000 4 6                     |  |   | 29,600 8 1                                      | 27,000 9 6  | 21,400 12 5   | 15,600 15   |                     |
| 390    | 6750             | 1 65             | 42,600 5 2                     |  |   | 31,400 8 7                                      | 28,900 10   | 23,800 13 5   | 18,300 16   |                     |
| 405    | 7000             | 1 77             | 44,200 5 8                     |  |   | 33,000 9 3                                      | 30,600 11   | 25,800 14   | 20,500 17   |                     |

## 72" Sturtevant-Blackman Propeller Fan

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Room Resistances.  
Volumes Measured by Anemometer Through Rectangular Opening in Wall. Co-efficient .82

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure Free Discharge | Static Pressure 1/2" Water .0722 ozs. per sq. inch | Static Pressure 3/4" Water .145 ozs. per sq. inch | Static Pressure 1" Water .217 ozs. per sq. inch | Static Pressure 1 1/4" Water .289 ozs. per sq. inch | Static Pressure 1 1/2" Water .434 ozs. per sq. inch | Static Pressure 1 3/4" Water .578 ozs. per sq. inch |
|--------|------------------|------------------|--------------------------------|--|---|---|---|---|---|
| 117    | 2200             | 0 175            | 16,500 0 210                   | 5,400 0 74   |   |   |   |   |   |
| 127    | 2400             | 0 209            | 18,000 0 275                   | 7,800 0 86   |   |   |   |   |   |
| 138    | 2600             | 0 245            | 19,500 0 35                    | 9,940 0 98   |   |   |   |   |   |
| 148    | 2800             | 0 285            | 21,000 0 44                    | 12,000 1 10  |   |   |   |   |   |
| 150    | 3000             | 0 327            | 22,400 0 54                    | 13,800 1 25  | 6,110 2 00  |   |   |   |   |
| 170    | 3200             | 0 372            | 24,000 0 65                    | 15,700 1 40  | 8,810 2 20  |   |   |   |   |
| 180    | 3400             | 0 418            | 25,500 0 78                    | 17,300 1 55  | 11,100 2 40                                       |   |   |   |   |
| 191    | 3600             | 0 470            | 27,000 0 93                    | 19,000 1 70  | 13,200 2 70                                       |   |   |   |   |
| 202    | 3800             | 0 523            | 28,500 1 10                    | 20,600 1 90  | 15,500 3 00                                       | 9,150 3 85                                      |   |   |   |
| 212    | 4000             | 0 580            | 30,000 1 30                    | 22,200 2 10  | 17,300 3 20                                       | 11,700 4 2                                      |   |   |   |
| 223    | 4200             | 0 640            | 31,500 1 50                    | 24,000 2 30  | 19,300 3 45                                       | 14,000 4 5                                      | 7,840 5 6   |   |   |
| 233    | 4400             | 0 703            | 33,000 1 70                    | 25,500 2 55  | 20,900 3 75                                       | 16,200 4 9                                      | 10,700 5 9  |   |   |
| 244    | 4600             | 0 767            | 34,500 1 95                    |  | 22,800 4 05                                       | 18,100 5 3                                      | 13,300 6 4  |   |   |
| 254    | 4800             | 0 835            | 36,000 2 20                    |  | 24,500 4 35                                       | 20,200 5 7                                      | 15,500 6 8  |   |   |
| 265    | 5000             | 0 908            | 37,500 2 50                    |  | 26,200 4 65                                       | 22,100 6 1                                      | 17,700 7 8  |   |   |
| 278    | 5250             | 1 00             | 39,300 2 90                    |  | 28,300 5 1  | 24,500 6 7                                      | 20,200 7 9  | 11,300 10 5   |   |
| 292    | 5500             | 1 10             | 41,200 3 35                    |  | 30,400 5 6  | 26,900 7 3                                      | 22,900 8 6  | 14,600 11 5   |   |
| 305    | 5750             | 1 20             | 43,200 3 8                     |  | 32,400 6 2  | 28,900 7 8                                      | 25,400 9 3  | 17,700 12   |   |
| 318    | 6000             | 1 31             | 45,000 4 3                     |  | 34,400 6 7  | 31,000 8 3                                      | 27,800 9 8  | 20,400 13   | 12,100 16 0   |
| 331    | 6250             | 1 43             | 46,900 4 9                     |  | 36,200 7 3  | 33,100 8 9                                      | 29,900 10 5   | 23,100 14   | 15,800 17 0   |
| 345    | 6500             | 1 53             | 48,800 5 5                     |  |   | 35,100 9 7                                      | 32,200 11 5   | 25,500 15   | 18,500 18 0   |
| 358    | 6750             | 1 65             | 50,700 6 1                     |  |   | 37,300 10 5                                     | 34,400 12   | 28,300 16   | 21,700 19 5   |
| 371    | 7000             | 1 77             | 52,500 6 8                     |  |   | 39,300 11                                       | 36,400 13   | 30,700 17   | 24,400 20 5   |

## 78" Sturtevant-Blackman Propeller Fan

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Room Resistances.  
Volumes Measured by Anemometer Through Rectangular Opening in Wall. Co-efficient .82

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M. H. P. Static Pressure Free Discharge | Volume C.F.M. H. P. Static Pressure 1/4" Water .0722 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1/2" Water .145 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 3/4" Water .217 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1" Water .289 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1 1/4" Water .361 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1 1/2" Water .434 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1 3/4" Water .507 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 2" Water .578 ozs. per sq. inch |
|--------|------------------|------------------|--|--|---|---|---|---|---|---|---|
| 108    | 2200             | 0.175            | 19,400 0.250                                       | 6,340 0.87   |   |   |   |   |   |   |   |
| 117    | 2400             | 0.209            | 21,200 0.325                                       | 9,160 1.00   |   |   |   |   |   |   |   |
| 127    | 2600             | 0.245            | 22,900 0.41  | 11,700 1.15  |   |   |   |   |   |   |   |
| 137    | 2800             | 0.285            | 24,700 0.52  | 14,000 1.30  |   |   |   |   |   |   |   |
| 147    | 3000             | 0.327            | 26,400 0.63  | 16,200 1.45  | 7,170 2.35  |   |   |   |   |   |   |
| 156    | 3200             | 0.372            | 28,200 0.77  | 18,400 1.65  | 10,300 2.60   |   |   |   |   |   |   |
| 166    | 3400             | 0.418            | 29,900 0.92  | 20,300 1.80  | 13,000 2.85   |   |   |   |   |   |   |
| 176    | 3600             | 0.470            | 31,700 1.10  | 22,500 2.00  | 15,500 3.15   |   |   |   |   |   |   |
| 186    | 3800             | 0.523            | 33,500 1.30  | 24,200 2.20  | 18,200 3.50   | 10,700 4.5  |   |   |   |   |   |
| 195    | 4000             | 0.580            | 35,300 1.50  | 26,000 2.45  | 20,300 3.75   | 13,700 4.9  |   |   |   |   |   |
| 205    | 4200             | 0.640            | 36,900 1.75  | 28,200 2.7   | 22,600 4.05   | 16,500 5.3  | 9,210 6.5   |   |   |   |   |
| 215    | 4400             | 0.703            | 38,700 2.00  | 29,900 3   | 24,500 4.35   | 19,000 5.8  | 12,600 7.0  |   |   |   |   |
| 225    | 4600             | 0.767            | 40,500 2.30  |  | 26,700 4.75   | 21,300 6.2  | 15,600 7.6  |   |   |   |   |
| 234    | 4800             | 0.835            | 42,300 2.60  |  | 28,700 5.1  | 23,800 6.7  | 18,200 8.0  |   |   |   |   |
| 244    | 5000             | 0.908            | 44,000 2.90  |  | 30,700 5.5  | 25,900 7.1  | 20,800 8.6  |   |   |   |   |
| 257    | 5250             | 1.00             | 46,100 3.40  |  | 33,100 6.0  | 28,800 7.8  | 23,800 9.3  | 13,300 12.5   |   |   |   |
| 269    | 5500             | 1.10             | 48,400 3.90  |  | 35,600 6.6  | 31,600 8.6  | 26,800 10.0   | 17,200 13.5   |   |   |   |
| 281    | 5750             | 1.20             | 50,600 4.45  |  | 38,000 7.3  | 34,000 8.9  | 29,800 11.0   | 20,800 14.0   |   |   |   |
| 293    | 6000             | 1.31             | 52,900 5.1   |  | 40,200 7.9  | 36,400 9.7  | 32,700 11.5   | 23,900 15.0   |   |   |   |
| 306    | 6250             | 1.43             | 55,000 5.7   |  | 42,500 8.6  | 38,800 10.5   | 35,100 12.5   | 27,200 16.5   | 14,200 19.0   |   |   |
| 318    | 6500             | 1.53             | 57,200 6.4   |  |   | 41,300 11.5   | 37,800 13.5   | 29,900 17.5   | 21,800 21.0   |   |   |
| 330    | 6750             | 1.65             | 59,400 7.2   |  |   | 43,800 12   | 40,300 14.5   | 33,200 18.5   | 25,500 22.5   |   |   |
| 343    | 7000             | 1.77             | 61,600 8   |  |   | 46,100 13   | 42,700 15   | 36,000 20   | 28,600 24   |   |   |

## 84" Sturtevant-Blackman Propeller Fan

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Room Resistances.  
Volumes Measured by Anemometer Through Rectangular Opening in Wall. Co-e ficient .82

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure Free Discharge | Static Pressure 1/4" Water .0722 ozs. per sq. inch | Static Pressure 1/2" Water .145 ozs. per sq. inch | Static Pressure 3/4" Water .217 ozs. per sq. inch | Static Pressure 1" Water .289 ozs. per sq. inch | Static Pressure 1 1/4" Water .361 ozs. per sq. inch | Static Pressure 1 1/2" Water .434 ozs. per sq. inch | Static Pressure 1 3/4" Water .507 ozs. per sq. inch | Static Pressure 2" Water .578 ozs. per sq. inch |
|--------|------------------|------------------|--------------------------------|--|---|---|---|---|---|---|---|
| 100    | 2200             | 0.175            | 22,400 0.290                   | 7,350 1.00   |   |   |   |   |   |   |   |
| 109    | 2400             | 0.209            | 24,500 0.375                   | 10,600 1.15  |   |   |   |   |   |   |   |
| 118    | 2600             | 0.245            | 26,600 0.475                   | 13,500 1.35  |   |   |   |   |   |   |   |
| 127    | 2800             | 0.285            | 28,600 0.60                    | 16,300 1.50  |   |   |   |   |   |   |   |
| 136    | 3000             | 0.327            | 30,500 0.73                    | 18,800 1.70  | 8,310 2.75  |   |   |   |   |   |   |
| 145    | 3200             | 0.372            | 32,600 0.89                    | 21,300 1.95  | 12,000 3.00                                       |   |   |   |   |   |   |
| 155    | 3400             | 0.418            | 34,700 1.05                    | 23,600 2.10  | 15,000 3.30                                       |   |   |   |   |   |   |
| 164    | 3600             | 0.470            | 36,700 1.25                    | 25,900 2.30  | 18,000 3.65                                       |   |   |   |   |   |   |
| 173    | 3800             | 0.523            | 38,800 1.50                    | 28,100 2.60  | 21,100 4.05                                       | 12,400 5.2  |   |   |   |   |   |
| 182    | 4000             | 0.580            | 40,800 1.75                    | 30,200 2.80  | 23,500 4.35                                       | 15,800 5.7  |   |   |   |   |   |
| 191    | 4200             | 0.640            | 42,800 2.00                    | 32,600 3.15  | 26,200 4.7  | 19,100 6.2  | 10,700 7.6                                      |   |   |   |   |
| 200    | 4400             | 0.703            | 44,900 2.30                    | 34,700 3.5   | 28,400 5.1  | 22,000 6.7  | 14,600 8.1                                      |   |   |   |   |
| 209    | 4600             | 0.767            | 47,000 2.65                    |  | 31,000 5.5  | 24,600 7.2  | 18,100 8.8                                      |   |   |   |   |
| 218    | 4800             | 0.835            | 49,000 3.00                    |  | 33,300 5.9  | 27,500 7.7  | 21,100 9.3                                      |   |   |   |   |
| 228    | 5000             | 0.908            | 51,000 3.40                    |  | 35,600 6.3  | 30,000 8.3  | 24,100 9.9                                      |   |   |   |   |
| 239    | 5250             | 1.00             | 53,500 3.95                    |  | 38,400 7.0  | 33,300 9.1  | 27,500 10.5                                     | 15,400 14.0   |   |   |   |
| 250    | 5500             | 1.10             | 56,100 4.5                     |  | 41,300 7.6  | 36,600 9.9  | 31,100 11.5                                     | 19,900 15.5   |   |   |   |
| 262    | 5750             | 1.20             | 58,700 5.2                     |  | 44,100 8.4  | 39,400 10.5                                       | 34,600 12.5                                     | 24,100 16.5   |   |   |   |
| 272    | 6000             | 1.31             | 61,400 5.9                     |  | 46,600 9.1  | 42,300 11.5                                       | 37,900 13.5                                     | 27,700 17.5   | 16,400 22.0   |   |   |
| 284    | 6250             | 1.43             | 63,900 6.6                     |  | 49,200 9.9  | 45,000 12   | 40,700 14.5                                     | 31,500 19.0   | 21,400 23.5   |   |   |
| 296    | 6500             | 1.53             | 66,400 7.5                     |  |   | 47,800 13   | 43,900 15.5                                     | 34,800 20.5   | 25,200 24.5   |   |   |
| 307    | 6750             | 1.65             | 69,000 8.4                     |  |   | 50,800 14   | 46,800 16.5                                     | 38,500 21.5   | 29,600 26   |   |   |
| 318    | 7000             | 1.77             | 71,500 9.3                     |  |   | 53,400 15   | 49,600 17.5                                     | 41,800 23   | 33,200 28   |   |   |

## 96" Sturtevant-Blackman Propeller Fan

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Room Resistances  
Volumes Measured by Anemometer Through Rectangular Opening in Wall. Co-efficient .82

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M. H. P. Static Pressure Free Discharge | Volume C.F.M. H. P. Static Pressure 1/4" Water .0722 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1/2" Water .145 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 3/4" Water .217 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1" Water .289 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1 1/4" Water .424 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1 1/2" Water .578 ozs. per sq. inch |
|--------|------------------|------------------|--|--|---|---|---|---|---|
| 88     | 2200             | 0.175            | 29,300 0.38  | 9,600 1.30   |   |   |   |   |   |
| 96     | 2400             | 0.209            | 32,000 0.49  | 13,900 1.55  |   |   |   |   |   |
| 103    | 2600             | 0.215            | 34,600 0.62  | 17,700 1.75  |   |   |   |   |   |
| 111    | 2800             | 0.285            | 37,300 0.78  | 21,300 1.95  |   |   |   |   |   |
| 119    | 3000             | 0.327            | 39,900 0.96  | 21,600 2.25  | 10,900 3.55   |   |   |   |   |
| 127    | 3200             | 0.372            | 42,600 1.15  | 27,800 2.50  | 15,700 3.90   |   |   |   |   |
| 135    | 3400             | 0.418            | 45,200 1.40  | 30,800 2.75  | 19,700 4.30   |   |   |   |   |
| 143    | 3600             | 0.470            | 48,000 1.65  | 33,800 3.00  | 23,600 4.75   |   |   |   |   |
| 151    | 3800             | 0.523            | 50,600 1.95  | 36,700 3.35  | 27,500 5.3  | 16,300 6.8  |   |   |   |
| 159    | 4000             | 0.580            | 53,400 2.25  | 39,400 3.70  | 30,800 5.7  | 20,700 7.4  |   |   |   |
| 167    | 4200             | 0.640            | 56,000 2.60  | 42,600 4.10  | 34,200 6.1  | 25,000 8.1  | 13,900 9.9  |   |   |
| 175    | 4400             | 0.703            | 58,600 3.00  | 45,200 4.55  | 37,200 6.6  | 28,800 8.8  | 19,000 10.5   |   |   |
| 183    | 4600             | 0.767            | 61,300 3.45  |  | 40,500 7.2  | 32,200 9.4  | 23,700 11.5   |   |   |
| 191    | 4800             | 0.835            | 64,000 3.95  |  | 43,500 7.7  | 36,000 10.0   | 27,500 12.0   |   |   |
| 198    | 5000             | 0.908            | 66,600 4.45  |  | 46,500 8.3  | 39,200 11.0   | 31,500 13.0   |   |   |
| 209    | 5250             | 1.00             | 70,000 5.1   |  | 50,200 9.1  | 43,600 12.0   | 35,900 14.0   | 20,000 18.5   |   |
| 218    | 5500             | 1.10             | 73,300 5.9   |  | 53,900 10   | 47,900 13.0   | 40,600 15.5   | 26,000 20.0   |   |
| 228    | 5750             | 1.20             | 76,800 6.7   |  | 57,600 11   | 51,500 13.5   | 45,000 16.5   | 31,500 21.5   |   |
| 239    | 6000             | 1.31             | 80,300 7.7   |  | 61,000 12   | 55,200 15.0   | 49,500 17.5   | 36,200 23   | 21,400 28   |
| 248    | 6250             | 1.43             | 83,400 8.7   |  | 64,400 13   | 58,900 16.0   | 53,300 19.0   | 41,100 25   | 28,000 30   |
| 259    | 6500             | 1.53             | 86,900 9.7   |  |   | 62,500 17.0   | 57,300 20.0   | 45,300 26   | 33,000 32   |
| 268    | 6750             | 1.65             | 90,000 11  |  |   | 66,300 18.5   | 61,100 21.5   | 50,300 28   | 38,700 34   |
| 278    | 7000             | 1.77             | 93,400 12  |  |   | 69,900 19.5   | 64,700 23   | 54,500 30   | 43,300 36   |

## 108" Sturtevant-Blackman Propeller Fan

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Room Resistances  
Volumes Measured by Anemometer Through Rectangular Opening in Wall. Co-efficient .82

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure Free Discharge | Static Pressure 1/4" Water .0722 ozs. per sq. inch | Static Pressure 1/2" Water .145 ozs. per sq. inch | Static Pressure 3/4" Water .217 ozs. per sq. inch | Static Pressure 1" Water .289 ozs. per sq. inch | Static Pressure 1 1/4" Water .424 ozs. per sq. inch | Static Pressure 1 1/2" Water .578 ozs. per sq. inch |
|--------|------------------|------------------|--------------------------------|--|---|---|---|---|---|
| 78     | 2200             | 0.175            | 37,100 0.48                    | 12,200 1.65  |   |   |   |   |   |
| 85     | 2400             | 0.209            | 40,500 0.62                    | 17,600 1.95  |   |   |   |   |   |
| 92     | 2600             | 0.245            | 43,900 0.79                    | 22,300 2.20  |   |   |   |   |   |
| 99     | 2800             | 0.285            | 47,200 0.99                    | 26,900 2.50  |   |   |   |   |   |
| 106    | 3000             | 0.327            | 50,500 1.20                    | 31,100 2.80  | 13,700 4.50                                       |   |   |   |   |
| 113    | 3200             | 0.372            | 54,000 1.45                    | 35,200 3.20  | 19,800 4.95                                       |   |   |   |   |
| 120    | 3400             | 0.418            | 57,200 1.75                    | 39,000 3.45  | 24,900 5.4  |   |   |   |   |
| 128    | 3600             | 0.470            | 60,600 2.10                    | 42,800 3.80  | 29,800 6.0  |   |   |   |   |
| 135    | 3800             | 0.523            | 64,300 2.45                    | 46,400 4.25  | 34,800 6.7  | 20,600 8.6  |   |   |   |
| 142    | 4000             | 0.580            | 67,500 2.85                    | 49,000 4.65  | 38,900 7.2  | 26,200 9.4  |   |   |   |
| 149    | 4200             | 0.640            | 70,800 3.30                    | 54,000 5.2   | 43,200 7.8  | 31,600 10.0                                       | 17,600 12.5                                     |   |   |
| 156    | 4400             | 0.708            | 74,100 3.80                    | 57,500 5.7   | 47,000 8.4  | 36,400 11.0                                       | 24,000 13.5                                     |   |   |
| 163    | 4600             | 0.767            | 77,600 4.35                    |  | 51,100 9.1  | 40,700 12.0                                       | 29,900 14.5                                     |   |   |
| 170    | 4800             | 0.835            | 81,000 4.95                    |  | 55,000 9.8  | 45,500 13.0                                       | 34,800 15.5                                     |   |   |
| 177    | 5000             | 0.908            | 84,300 5.6                     |  | 58,900 10.5                                       | 49,600 13.5                                       | 39,800 16.5                                     |   |   |
| 186    | 5250             | 1.00             | 88,500 6.5                     |  | 63,500 11.5                                       | 55,100 15.0                                       | 45,500 18.0                                     | 25,400 23.5   |   |
| 195    | 5500             | 1.10             | 92,700 7.5                     |  | 68,200 12.5                                       | 60,500 16.5                                       | 51,500 19.5                                     | 32,900 26   |   |
| 204    | 5750             | 1.20             | 97,100 8.5                     |  | 72,900 14.0                                       | 65,000 17.0                                       | 57,000 21                                       | 39,900 27   |   |
| 213    | 6000             | 1.31             | 101,000 9.7                    |  | 77,100 15.0                                       | 70,000 18.5                                       | 62,600 22                                       | 45,800 29   | 27,100 36   |
| 222    | 6250             | 1.43             | 106,000 11.0                   |  | 81,500 16.5                                       | 74,500 20.0                                       | 67,200 24                                       | 52,100 31   | 35,400 39   |
| 230    | 6500             | 1.53             | 110,000 12.5                   |  |   | 79,000 21.5                                       | 72,500 26                                       | 57,300 34   | 41,600 41   |
| 239    | 6750             | 1.65             | 114,500 14.0                   |  |   | 83,900 23   | 77,400 27                                       | 63,600 36   | 48,900 43   |
| 248    | 7000             | 1.77             | 118,000 15.5                   |  |   | 88,200 25   | 82,000 29                                       | 69,000 38   | 54,800 46   |

# 120" Sturtevant-Blackman Propeller Fan

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Room Resistances.  
 Volumes Measured by Anemometer Through Rectangular Opening in Wall. Co-efficient .82

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M. H. P. Static Pressure Free Discharge | Volume C.F.M. H. P. Static Pressure $\frac{1}{8}$ " Water .0722 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure $\frac{1}{4}$ " Water .145 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure $\frac{3}{8}$ " Water .217 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure $\frac{1}{2}$ " Water .289 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure $\frac{3}{4}$ " Water .434 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1" Water .578 ozs. per sq. inch |
|--------|------------------|------------------|--|---|--|--|--|--|---|
| 70     | 2200             | 0.175            | 46,000 0.59  | 15,000 2.05   |  |  |  |  |   |
| 78     | 2400             | 0.209            | 50,100 0.77  | 21,700 2.40   |  |  |  |  |   |
| 83     | 2600             | 0.245            | 54,300 0.97  | 27,500 2.70   |  |  |  |  |   |
| 89     | 2800             | 0.285            | 58,300 1.20  | 33,200 3.05   |  |  |  |  |   |
| 96     | 3000             | 0.327            | 62,300 1.50  | 38,400 3.45   | 17,000 5.6   |  |  |  |   |
| 102    | 3200             | 0.372            | 66,800 1.80  | 43,500 3.90   | 24,500 6.1   |  |  |  |   |
| 108    | 3400             | 0.418            | 70,700 2.20  | 48,100 4.25   | 30,700 6.7   |  |  |  |   |
| 115    | 3600             | 0.470            | 75,000 2.60  | 52,800 4.7  | 36,800 7.4   |  |  |  |   |
| 121    | 3800             | 0.523            | 79,300 3.05  | 57,300 5.3  | 43,000 8.3   | 25,400 10.5  |  |  |   |
| 127    | 4000             | 0.580            | 83,600 3.55  | 61,500 5.8  | 48,000 8.9   | 32,400 11.5  |  |  |   |
| 134    | 4200             | 0.640            | 87,400 4.1   | 66,000 6.4  | 53,500 9.6   | 39,000 12.5  | 21,800 15.5  |  |   |
| 140    | 4400             | 0.703            | 91,800 4.7   | 70,800 7.1  | 58,000 10.5  | 45,000 13.5  | 29,700 16.5  |  |   |
| 146    | 4600             | 0.767            | 96,000 5.4   |   | 63,300 11.0  | 50,300 14.5  | 37,000 18.0  |  |   |
| 153    | 4800             | 0.835            | 100,000 6.1  |   | 68,000 12.0  | 56,300 16.0  | 43,000 19.0  |  |   |
| 159    | 5000             | 0.908            | 104,000 6.9  |   | 72,800 13.0  | 61,300 17.0  | 49,100 20.5  |  |   |
| 167    | 5250             | 1.00             | 109,000 8.0  |   | 78,500 14.0  | 68,000 18.5  | 56,200 22  | 31,400 29  |   |
| 175    | 5500             | 1.10             | 114,000 9.2  |   | 84,200 15.5  | 74,800 20.0  | 63,500 24  | 40,500 32  |   |
| 183    | 5750             | 1.20             | 120,000 10.5                                       |   | 90,100 17.5  | 80,300 21.0  | 70,500 26  | 49,200 33  |   |
| 191    | 6000             | 1.31             | 125,000 12.0                                       |   | 95,500 18.5  | 86,500 23.0  | 77,400 27  | 56,600 36  | 33,500 45   |
| 199    | 6250             | 1.43             | 130,000 13.5                                       |   | 101,000 20   | 92,000 24.5  | 83,000 30  | 64,300 39  | 43,700 48   |
| 207    | 6500             | 1.53             | 135,000 15   |   |  | 97,700 27  | 89,500 32  | 70,900 41  | 51,500 50   |
| 215    | 6750             | 1.65             | 141,000 17   |   |  | 104,000 29   | 95,500 34  | 78,500 44  | 60,400 54   |
| 223    | 7000             | 1.77             | 146,000 19   |   |  | 109,000 31   | 101,000 36   | 85,300 47  | 67,800 56   |



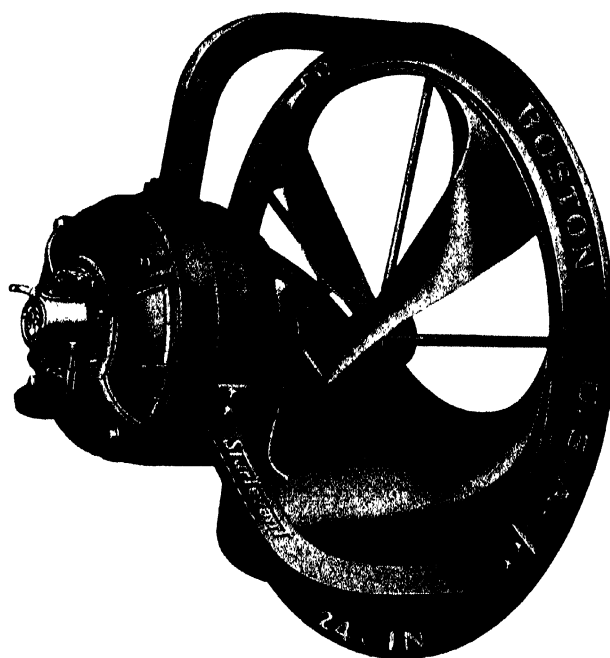


**STURTEVANT-DAVIDSON**  
**PROPELLER FANS**  
**Pulley and Electric Drive**

**Dimensions, Capacities, Horse Powers**



## Sturtevant-Davidson Propeller Fan



Sturtevant-Davidson Propeller Fan

## **STURTEVANT-DAVIDSON PROPELLER FAN**

### **SPECIFICATIONS**

See specifications on page 808. Sturtevant Propeller Fans of the Davidson type are less efficient and more noisy than the standard Sturtevant Propeller Fan described on pages 805-821, and the demand for the Davidson type has therefore decreased. On special order or to meet specifications Sturtevant-Davidson Propeller Fans will be furnished, but the other type is recommended.

## **Sturtevant-Davidson Propeller Fan**

### **EXPLANATION OF TABLES**

These fans are not usually applied in connection with piping systems because they are not efficient where a large component of the pressure is static.

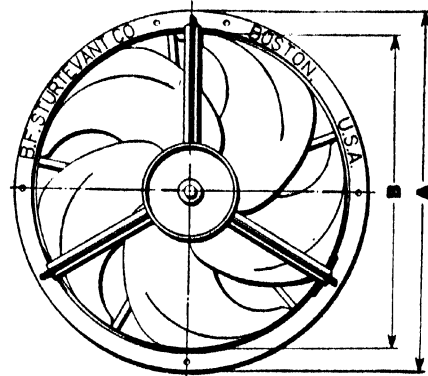
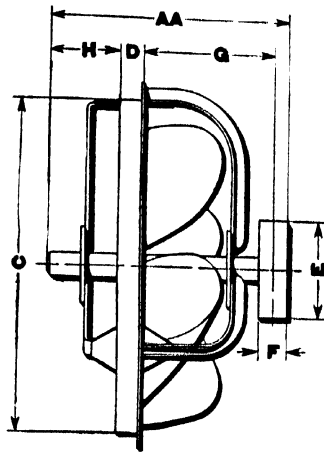
Capacities are therefore measured with fan discharging into a plenum space, the maintained resistance being the static pressure in that space.

## **Sturtevant-Davidson Propeller Fan**

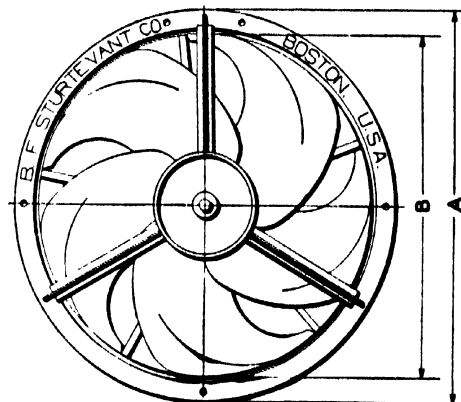
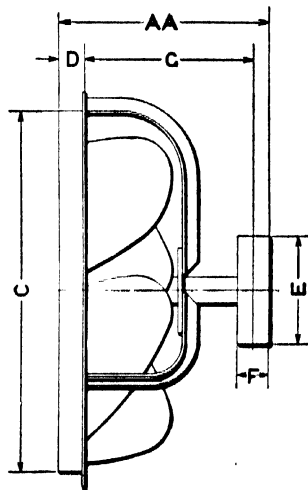
### **APPROXIMATE WEIGHTS**

| <b>Size</b> | <b>Direct Current</b> | <b>Alternating Current</b> | <b>Pulley Drive</b> |
|-------------|-----------------------|----------------------------|---------------------|
| 18          | 250                   | 180                        |                     |
| 24          | 550                   | 250                        |                     |
| 30          | 600                   | 400                        |                     |
| 36          | 800                   | 600                        |                     |
| 42          | 1300                  | 700                        |                     |
| 48          | 1600                  | 800                        |                     |
| 54          | 1750                  |                            |                     |
| 60          | 1800                  |                            |                     |

# Sturtevant - Davidson Pulley Propeller Fan



| Fan Size | A                | B  | D                | D               | E  | F               | G                | AA               | Shaft Diameter  | Anchor Bolts |
|----------|------------------|----|------------------|-----------------|----|-----------------|------------------|------------------|-----------------|--------------|
| 18       | 21 $\frac{3}{8}$ | 18 | 19 $\frac{1}{4}$ | 2               | 4  | 2 $\frac{1}{2}$ | 11 $\frac{1}{8}$ | 14 $\frac{1}{2}$ | $\frac{3}{8}$   | 4            |
| 24       | 27 $\frac{7}{8}$ | 24 | 25 $\frac{1}{2}$ | 2               | 5  | 2 $\frac{1}{2}$ | 13 $\frac{7}{8}$ | 17 $\frac{1}{2}$ | $\frac{3}{8}$   | 4            |
| 30       | 31 $\frac{1}{8}$ | 30 | 31 $\frac{1}{4}$ | 2 $\frac{1}{2}$ | 6  | 3 $\frac{1}{2}$ | 16 $\frac{1}{4}$ | 20 $\frac{1}{2}$ | 1 $\frac{1}{8}$ | 4            |
| 36       | 41               | 36 | 37 $\frac{1}{2}$ | 2 $\frac{1}{2}$ | 7  | 4 $\frac{1}{2}$ | 18 $\frac{1}{2}$ | 23 $\frac{1}{2}$ | 1 $\frac{1}{8}$ | 4            |
| 42       | 48               | 42 | 43               | 3 $\frac{1}{2}$ | 8  | 5 $\frac{1}{2}$ | 22               | 28 $\frac{1}{2}$ | 1 $\frac{1}{8}$ | 4            |
| 48       | 54 $\frac{1}{2}$ | 48 | 49 $\frac{1}{2}$ | 3 $\frac{1}{2}$ | 8  | 5 $\frac{1}{2}$ | 25 $\frac{1}{2}$ | 31 $\frac{1}{2}$ | 1 $\frac{1}{8}$ | 4            |
| 51       | 61 $\frac{1}{2}$ | 51 | 56 $\frac{1}{2}$ | 4 $\frac{1}{2}$ | 9  | 5 $\frac{1}{2}$ | 25 $\frac{3}{4}$ | 32 $\frac{1}{2}$ | 1 $\frac{1}{8}$ | 4            |
| 60       | 67 $\frac{1}{2}$ | 60 | 62 $\frac{1}{2}$ | 4 $\frac{1}{2}$ | 10 | 6 $\frac{1}{2}$ | 30 $\frac{1}{2}$ | 38 $\frac{1}{2}$ | 1 $\frac{1}{8}$ | 4            |

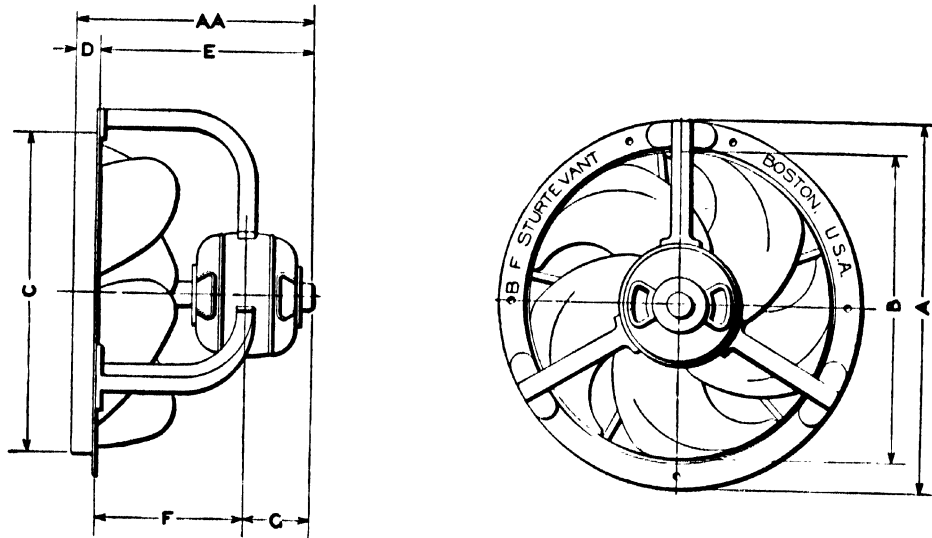


| Fan Size | A                 | B   | C                 | D               | E  | F               | G                | H                | AA               | Shaft Diameter  | Anchor Bolts  |
|----------|-------------------|-----|-------------------|-----------------|----|-----------------|------------------|------------------|------------------|-----------------|---------------|
| 66       | 73 $\frac{3}{8}$  | 66  | 68 $\frac{1}{2}$  | 4 $\frac{1}{2}$ | 10 | 6 $\frac{1}{2}$ | 25 $\frac{1}{2}$ | 9 $\frac{1}{2}$  | 42 $\frac{1}{2}$ | 1 $\frac{1}{8}$ | $\frac{1}{2}$ |
| 72       | 81 $\frac{3}{8}$  | 72  | 74 $\frac{1}{2}$  | 5               | 12 | 7 $\frac{1}{2}$ | 27 $\frac{1}{2}$ | 9 $\frac{1}{2}$  | 45 $\frac{1}{2}$ | 1 $\frac{1}{8}$ | 1             |
| 78       | 87 $\frac{3}{8}$  | 78  | 80 $\frac{1}{2}$  | 5               | 14 | 8 $\frac{1}{2}$ | 30 $\frac{1}{2}$ | 9 $\frac{1}{2}$  | 49 $\frac{1}{2}$ | 1 $\frac{1}{8}$ | 1             |
| 84       | 94                | 84  | 86 $\frac{1}{2}$  | 5               | 14 | 8 $\frac{1}{2}$ | 33 $\frac{1}{2}$ | 10 $\frac{1}{2}$ | 53 $\frac{1}{2}$ | 2 $\frac{1}{8}$ | 1             |
| 96       | 106               | 96  | 98 $\frac{1}{2}$  | 5               | 16 | 8 $\frac{1}{2}$ | 37               | 10 $\frac{1}{2}$ | 57 $\frac{1}{2}$ | 2 $\frac{1}{8}$ | 1             |
| 108      | 118               | 108 | 110 $\frac{1}{2}$ | 6               | 18 | 8 $\frac{1}{2}$ | 41 $\frac{1}{2}$ | 12 $\frac{1}{2}$ | 64 $\frac{1}{2}$ | 2 $\frac{1}{8}$ | 1             |
| 120      | 130 $\frac{1}{2}$ | 120 | 123 $\frac{1}{2}$ | 6               | 20 | 8 $\frac{1}{2}$ | 46 $\frac{1}{2}$ | 12 $\frac{1}{2}$ | 69 $\frac{1}{2}$ | 2 $\frac{1}{8}$ | 1             |



# Sturtevant - Davidson Electric Propeller Fan

Sturtevant Motors



## (Medium Speed)

| Fan Size | A                | B  | C                | D               | E                | F                | G                | AA               | Shaft Diameter | Anchor Bolts  |
|----------|------------------|----|------------------|-----------------|------------------|------------------|------------------|------------------|----------------|---------------|
| 18       | 21 $\frac{1}{2}$ | 18 | 19 $\frac{1}{2}$ | 2               | 15 $\frac{1}{2}$ | 10               | 5 $\frac{1}{2}$  | 17 $\frac{1}{2}$ | $\frac{3}{4}$  | $\frac{3}{4}$ |
| 24       | 27 $\frac{1}{2}$ | 24 | 25 $\frac{1}{2}$ | 2               | 20 $\frac{1}{2}$ | 13 $\frac{1}{2}$ | 7 $\frac{1}{2}$  | 22 $\frac{1}{2}$ | $\frac{3}{4}$  | $\frac{3}{4}$ |
| 30       | 34 $\frac{1}{2}$ | 30 | 31 $\frac{1}{2}$ | 2 $\frac{1}{2}$ | 24 $\frac{1}{2}$ | 15 $\frac{1}{2}$ | 8 $\frac{1}{2}$  | 26 $\frac{1}{2}$ | $\frac{1}{2}$  | $\frac{1}{2}$ |
| 36       | 41               | 36 | 37 $\frac{1}{2}$ | 2 $\frac{1}{2}$ | 29 $\frac{1}{2}$ | 19 $\frac{1}{2}$ | 10 $\frac{1}{2}$ | 32 $\frac{1}{2}$ | $\frac{1}{2}$  | $\frac{1}{2}$ |
| 42       | 48               | 42 | 43 $\frac{1}{2}$ | 3 $\frac{1}{2}$ | 34 $\frac{1}{2}$ | 22 $\frac{1}{2}$ | 12               | 38               | $\frac{1}{2}$  | $\frac{1}{2}$ |
| 48       | 54 $\frac{1}{2}$ | 48 | 49 $\frac{1}{2}$ | 3 $\frac{1}{2}$ | 38 $\frac{1}{2}$ | 25 $\frac{1}{2}$ | 13 $\frac{1}{2}$ | 42 $\frac{1}{2}$ | $\frac{1}{2}$  | $\frac{1}{2}$ |
| 54       | 61 $\frac{1}{2}$ | 54 | 56 $\frac{1}{2}$ | 4 $\frac{1}{2}$ | 31 $\frac{1}{2}$ | 21 $\frac{1}{2}$ | 10               | 36 $\frac{1}{2}$ | $\frac{1}{2}$  | $\frac{1}{2}$ |
| 60       | 67 $\frac{1}{2}$ | 60 | 62 $\frac{1}{2}$ | 4 $\frac{1}{2}$ | 34 $\frac{1}{2}$ | 24 $\frac{1}{2}$ | 10 $\frac{1}{2}$ | 39               | $\frac{1}{2}$  | $\frac{1}{2}$ |

## (Maximum Speed)

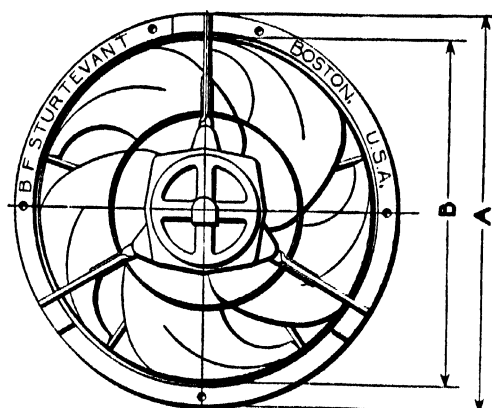
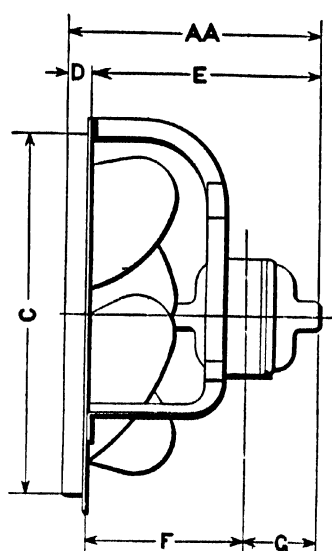
| Fan Size | A                | B  | C                | D               | E                | F                | G                | AA               | Shaft Diameter | Anchor Bolts  |
|----------|------------------|----|------------------|-----------------|------------------|------------------|------------------|------------------|----------------|---------------|
| 18       | 21 $\frac{1}{2}$ | 18 | 19 $\frac{1}{2}$ | 2               | 18 $\frac{1}{2}$ | 11 $\frac{1}{2}$ | 7 $\frac{1}{2}$  | 20 $\frac{1}{2}$ | $\frac{3}{4}$  | $\frac{3}{4}$ |
| 24       | 27 $\frac{1}{2}$ | 24 | 25 $\frac{1}{2}$ | 2               | 23 $\frac{1}{2}$ | 14 $\frac{1}{2}$ | 8 $\frac{1}{2}$  | 25 $\frac{1}{2}$ | $\frac{3}{4}$  | $\frac{3}{4}$ |
| 30       | 34 $\frac{1}{2}$ | 30 | 31 $\frac{1}{2}$ | 2 $\frac{1}{2}$ | 28 $\frac{1}{2}$ | 17 $\frac{1}{2}$ | 10 $\frac{1}{2}$ | 20 $\frac{1}{2}$ | $\frac{1}{2}$  | $\frac{1}{2}$ |
| 36       | 41               | 36 | 37 $\frac{1}{2}$ | 2 $\frac{1}{2}$ | 33               | 21               | 12               | 35 $\frac{1}{2}$ | $\frac{1}{2}$  | $\frac{1}{2}$ |
| 42       | 48               | 42 | 43 $\frac{1}{2}$ | 3 $\frac{1}{2}$ | 37 $\frac{1}{2}$ | 23 $\frac{1}{2}$ | 13 $\frac{1}{2}$ | 40 $\frac{1}{2}$ | $\frac{1}{2}$  | $\frac{1}{2}$ |
| 48       | 54 $\frac{1}{2}$ | 48 | 49 $\frac{1}{2}$ | 3 $\frac{1}{2}$ | 31 $\frac{1}{2}$ | 21 $\frac{1}{2}$ | 10               | 34 $\frac{1}{2}$ | $\frac{1}{2}$  | $\frac{1}{2}$ |
| 54       | 61 $\frac{1}{2}$ | 54 | 56 $\frac{1}{2}$ | 4 $\frac{1}{2}$ | 31 $\frac{1}{2}$ | 21 $\frac{1}{2}$ | 10               | 36 $\frac{1}{2}$ | $\frac{1}{2}$  | $\frac{1}{2}$ |
| 60       | 67 $\frac{1}{2}$ | 60 | 62 $\frac{1}{2}$ | 4 $\frac{1}{2}$ | 34 $\frac{1}{2}$ | 24 $\frac{1}{2}$ | 10 $\frac{1}{2}$ | 39               | $\frac{1}{2}$  | $\frac{1}{2}$ |

# Sturtevant - Davidson Electric Propeller Fan

Alternating Current

Motors

Single and Polyphase



## Single Phase

## Polyphase

| Fan Size | A                | B  | C                | D               | E                | F                | G                | AA               | Shaft Diameter  | Anchor Bolts  | Fan Size | A                | B  | C                | D               | E                | F                | G               | AA               | Shaft Diameter  | Anchor Bolts  |
|----------|------------------|----|------------------|-----------------|------------------|------------------|------------------|------------------|-----------------|---------------|----------|------------------|----|------------------|-----------------|------------------|------------------|-----------------|------------------|-----------------|---------------|
| 18       | 21 $\frac{1}{2}$ | 18 | 19 $\frac{1}{2}$ | 2               | 19 $\frac{1}{2}$ | 9 $\frac{1}{2}$  | 9 $\frac{1}{2}$  | 21 $\frac{1}{2}$ | $\frac{3}{4}$   | $\frac{3}{4}$ | 18       | 21 $\frac{1}{2}$ | 18 | 19 $\frac{1}{2}$ | 2               | 14 $\frac{1}{4}$ | 9 $\frac{1}{2}$  | 4 $\frac{1}{4}$ | 16 $\frac{1}{4}$ | $\frac{3}{4}$   | $\frac{1}{2}$ |
| 24       | 27 $\frac{1}{2}$ | 24 | 25 $\frac{1}{2}$ | 2               | 22 $\frac{1}{2}$ | 12 $\frac{1}{2}$ | 10 $\frac{1}{2}$ | 24 $\frac{1}{2}$ | $\frac{1}{2}$   | $\frac{3}{4}$ | 24       | 27 $\frac{1}{2}$ | 24 | 25 $\frac{1}{2}$ | 2               | 17 $\frac{1}{4}$ | 11 $\frac{1}{2}$ | 6 $\frac{1}{4}$ | 19 $\frac{1}{4}$ | $\frac{1}{2}$   | $\frac{1}{2}$ |
| 30       | 34 $\frac{1}{2}$ | 30 | 31 $\frac{1}{2}$ | 2 $\frac{1}{2}$ | 26 $\frac{1}{2}$ | 14 $\frac{1}{2}$ | 11 $\frac{1}{2}$ | 28 $\frac{1}{2}$ | 1               | $\frac{1}{2}$ | 30       | 34 $\frac{1}{2}$ | 30 | 31 $\frac{1}{2}$ | 2 $\frac{1}{2}$ | 22 $\frac{1}{4}$ | 14 $\frac{1}{2}$ | 7 $\frac{1}{4}$ | 24 $\frac{1}{4}$ | 1               | $\frac{1}{2}$ |
| 36       | 41               | 36 | 37 $\frac{1}{2}$ | 2 $\frac{1}{2}$ | 31 $\frac{1}{2}$ | 18               | 13 $\frac{1}{2}$ | 33 $\frac{1}{2}$ | 1 $\frac{1}{2}$ | $\frac{1}{2}$ | 36       | 41               | 36 | 37 $\frac{1}{2}$ | 2 $\frac{1}{2}$ | 25 $\frac{1}{4}$ | 17 $\frac{1}{2}$ | 8 $\frac{1}{4}$ | 28 $\frac{1}{4}$ | 1 $\frac{1}{2}$ | $\frac{1}{2}$ |
| 42       | 48               | 42 | 43 $\frac{1}{2}$ | 3 $\frac{1}{2}$ | 33 $\frac{1}{2}$ | 18 $\frac{1}{2}$ | 14 $\frac{1}{2}$ | 36 $\frac{1}{2}$ | 1 $\frac{1}{2}$ | $\frac{3}{4}$ | 42       | 48               | 42 | 43 $\frac{1}{2}$ | 3 $\frac{1}{2}$ | 27 $\frac{1}{4}$ | 18 $\frac{1}{2}$ | 8 $\frac{1}{2}$ | 30 $\frac{1}{4}$ | 1 $\frac{3}{4}$ | $\frac{3}{4}$ |
| 48       | 54 $\frac{1}{2}$ | 48 | 49 $\frac{1}{2}$ | 3 $\frac{1}{2}$ | 35 $\frac{1}{2}$ | 19 $\frac{1}{2}$ | 16               | 38 $\frac{1}{2}$ | 1 $\frac{1}{2}$ | $\frac{3}{4}$ | 48       | 54 $\frac{1}{2}$ | 48 | 49 $\frac{1}{2}$ | 3 $\frac{1}{2}$ | 28 $\frac{1}{4}$ | 18 $\frac{1}{2}$ | 9 $\frac{1}{4}$ | 31 $\frac{1}{4}$ | 1 $\frac{3}{4}$ | $\frac{3}{4}$ |

## 18" Sturtevant-Davidson Propeller Fan

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Room Resistances.  
Volumes Measured by Anemometer Through Rectangular Opening in Wall. Co-efficient .82

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M. H. P.            | Volume C.F.M. H. P.                                | Volume C.F.M. H. P.                               | Volume C.F.M. H. P.                               | Volume C.F.M. H. P.                             | Volume C.F.M. H. P.                                 | Volume C.F.M. H. P.                                 | Volume C.F.M. H. P. |
|--------|------------------|------------------|--------------------------------|--|---|---|---|---|---|---------------------|
|        |                  |                  | Static Pressure Free Discharge | Static Pressure 1/4" Water .0722 ozs. per sq. inch | Static Pressure 1/2" Water .145 ozs. per sq. inch | Static Pressure 3/4" Water .217 ozs. per sq. inch | Static Pressure 1" Water .289 ozs. per sq. inch | Static Pressure 1 1/4" Water .434 ozs. per sq. inch | Static Pressure 1 1/2" Water .578 ozs. per sq. inch |                     |
| 467    | 2200             | 0 152            | 1,330 0 017                    | 182 0 041  |   |   |   |   |   |                     |
| 508    | 2400             | 0 181            | 1,450 0 022                    | 302 0 051  |   |   |   |   |   |                     |
| 552    | 2600             | 0 212            | 1,570 0 028                    | 410 0 057  |   |   |   |   |   |                     |
| 595    | 2800             | 0 246            | 1,700 0 035                    | 510 0 065  |   |   |   |   |   |                     |
| 637    | 3000             | 0 283            | 1,820 0 045                    | 610 0 073  | 180 0 125   |   |   |   |   |                     |
| 680    | 3200             | 0 322            | 1,940 0 052                    | 712 0 082  | 311 0 130   |   |   |   |   |                     |
| 722    | 3400             | 0 363            | 2,050 0 062                    | 818 0 093  | 428 0 140   |   |   |   |   |                     |
| 765    | 3600             | 0 407            | 2,170 0 074                    | 929 0 105  | 536 0 155   |   |   |   |   |                     |
| 807    | 3800             | 0 453            | 2,300 0 087                    | 1,040 0 115  | 638 0 170   | 309 0 230   |   |   |   |                     |
| 850    | 4000             | 0 502            | 2,420 0 100                    | 1,150 0 130  | 742 0 185   | 431 0 245   |   |   |   |                     |
| 892    | 4200             | 0 554            | 2,550 0 115                    | 1,260 0 145  | 810 0 200   | 549 0 265   | 215 0 335                                       |   |   |                     |
| 935    | 4400             | 0 608            | 2,650 0 135                    | 1,390 0 16   | 940 0 220   | 654 0 285   | 359 0 345                                       |   |   |                     |
| 974    | 4600             | 0 665            | 2,780 0 155                    |  | 1,050 0 240                                       | 747 0 305   | 495 0 385                                       |   |   |                     |
| 1020   | 4800             | 0 724            | 2,900 0 175                    |  | 1,150 0 260                                       | 857 0 330   | 602 0 405                                       |   |   |                     |
| 1060   | 5000             | 0 785            | 3,020 0 200                    |  | 1,250 0 280                                       | 954 0 350   | 716 0 430                                       |   |   |                     |
| 1114   | 5250             | 0 865            | 3,180 0 230                    |  | 1,390 0 315                                       | 1,080 0 385                                       | 844 0 465                                       | 345 0 62  |   |                     |
| 1169   | 5500             | 0 95             | 3,320 0 265                    |  | 1,530 0 345                                       | 1,210 0 420                                       | 972 0 50  | 517 0 67  |   |                     |
| 1220   | 5750             | 1 04             | 3,480 0 300                    |  | 1,680 0 385                                       | 1,340 0 455                                       | 1,100 0 54                                      | 672 0 71  |   |                     |
| 1273   | 6000             | 1 13             | 3,620 0 340                    |  | 1,850 0 425                                       | 1,470 0 50  | 1,220 0 58                                      | 805 0 76  | 360 0 98  |                     |
| 1328   | 6250             | 1 23             | 3,800 0 390                    |  | 2,000 0 475                                       | 1,610 0 55  | 1,350 0 63                                      | 938 0 81  | 531 1 00  |                     |
| 1380   | 6500             | 1 33             | 3,920 0 435                    |  | 2,150 0 52  | 1,750 0 59  | 1,480 0 68                                      | 1,060 0 86  | 680 1 05  |                     |
| 1433   | 6750             | 1 43             | 4,080 0 49                     |  |   | 1,870 0 64  | 1,610 0 72                                      | 1,190 0 93  | 836 1 10  |                     |
| 1485   | 7000             | 1 54             | 4,230 0 54                     |  |   | 2,030 0 7   | 1,740 0 79                                      | 1,310 0 97  | 964 1 15  |                     |

## 24" Sturtevant-Davidson Propeller Fan

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Room Resistances.  
Volumes Measured by Anemometer Through Rectangular Opening in Wall. Co-efficient .82

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure Free Discharge | Static Pressure 1/4" Water .0722 ozs. per sq. inch | Static Pressure 1/2" Water .145 ozs. per sq. inch | Static Pressure 3/4" Water .217 ozs. per sq. inch | Static Pressure 1" Water .289 ozs. per sq. inch | Static Pressure 1 1/4" Water .434 ozs. per sq. inch | Static Pressure 1 1/2" Water .578 ozs. per sq. inch |  |
|--------|------------------|------------------|--------------------------------|--|---|---|---|---|---|--|
| 351    | 2200             | 0 152            | 2,370 0 030                    | 324 0 078  |   |   |   |   |   |  |
| 382    | 2400             | 0 181            | 2,580 0 039                    | 538 0 090  |   |   |   |   |   |  |
| 415    | 2600             | 0 212            | 2,800 0 049                    | 730 0 100  |   |   |   |   |   |  |
| 446    | 2800             | 0 246            | 3,010 0 062                    | 909 0 115  |   |   |   |   |   |  |
| 478    | 3000             | 0 283            | 3,240 0 081                    | 1,090 0 130  | 321 0 220   |   |   |   |   |  |
| 508    | 3200             | 0 322            | 3,450 0 093                    | 1,270 0 145  | 554 0 235   |   |   |   |   |  |
| 541    | 3400             | 0 363            | 3,650 0 100                    | 1,430 0 165  | 762 0 250   |   |   |   |   |  |
| 575    | 3600             | 0 407            | 3,870 0 130                    | 1,660 0 185  | 951 0 280   |   |   |   |   |  |
| 605    | 3800             | 0 453            | 4,080 0 155                    | 1,840 0 205  | 1,140 0 300                                       | 551 0 405   |   |   |   |  |
| 637    | 4000             | 0 502            | 4,320 0 180                    | 2,050 0 235  | 1,320 0 330                                       | 768 0 435   |   |   |   |  |
| 670    | 4200             | 0 554            | 4,530 0 210                    | 2,250 0 26   | 1,500 0 360                                       | 979 0 470   | 384 0 60  |   |   |  |
| 700    | 4400             | 0 608            | 4,720 0 240                    | 2,480 0 29   | 1,680 0 390                                       | 1,165 0 510                                       | 639 0 62  |   |   |  |
| 734    | 4600             | 0 665            | 4,960 0 275                    |  | 1,870 0 430                                       | 1,340 0 55  | 881 0 69  |   |   |  |
| 765    | 4800             | 0 724            | 5,160 0 31                     |  | 2,050 0 465                                       | 1,530 0 58  | 1,070 0 72                                      |   |   |  |
| 796    | 5000             | 0 785            | 5,380 0 35                     |  | 2,230 0 50  | 1,700 0 63  | 1,280 0 77                                      |   |   |  |
| 836    | 5250             | 0 865            | 5,670 0 41                     |  | 2,480 0 56  | 1,930 0 69  | 1,510 0 83                                      | 614 1 10  |   |  |
| 876    | 5500             | 0 95             | 5,910 0 47                     |  | 2,720 0 61  | 2,160 0 75  | 1,730 0 90                                      | 919 1 20  |   |  |
| 916    | 5750             | 1 04             | 6,200 0 54                     |  | 3,000 0 69  | 2,390 0 81  | 1,960 0 97                                      | 1,200 1 25  |   |  |
| 956    | 6000             | 1 13             | 6,450 0 61                     |  | 3,296 0 76  | 2,630 0 89  | 2,170 1 05                                      | 1,430 1 35  | 612 1 75  |  |
| 996    | 6250             | 1 23             | 6,740 0 69                     |  | 3,570 0 84  | 2,870 0 98  | 2,400 1 10                                      | 1,670 1 45  | 944 1 8   |  |
| 1035   | 6500             | 1 33             | 6,980 0 78                     |  | 3,820 0 92  | 3,110 1 05  | 2,640 1 20                                      | 1,880 1 55  | 1,230 1 9   |  |
| 1074   | 6750             | 1 43             | 7,280 0 87                     |  |   | 3,340 1 15  | 2,800 1 30                                      | 2,020 1 65  | 1,490 2 0   |  |
| 1114   | 7000             | 1 54             | 7,520 0 97                     |  |   | 3,620 1 25  | 3,110 1 41                                      | 2,340 1 75  | 1,720 2 1   |  |

## 30" Sturtevant-Davidson Propeller Fan

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Room Resistances.  
Volumes Measured by Anemometer Through Rectangular Opening in Wall. Co-efficient .82

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M. H. P.            | Volume C.F.M. H. P.                                | Volume C.F.M. H. P.                               | Volume C.F.M. H. P.                               | Volume C.F.M. H. P.                               | Volume C.F.M. H. P.                               | Volume C.F.M. H. P.                               | Volume C.F.M. H. P. |
|--------|------------------|------------------|--------------------------------|--|---|---|---|---|---|---------------------|
|        |                  |                  | Static Pressure Free Discharge | Static Pressure 1/4" Water .0722 ozs. per sq. inch | Static Pressure 1/4" Water .145 ozs. per sq. inch | Static Pressure 1/4" Water .217 ozs. per sq. inch | Static Pressure 1/4" Water .289 ozs. per sq. inch | Static Pressure 1/4" Water .434 ozs. per sq. inch | Static Pressure 1/4" Water .578 ozs. per sq. inch |                     |
| 280    | 2200             | 0.152            | 3,690 0.047                    | 508 0.120  |   |   |   |   |   |                     |
| 306    | 2400             | 0.181            | 4,030 0.061                    | 842 0.140  |   |   |   |   |   |                     |
| 330    | 2600             | 0.212            | 4,370 0.077                    | 1,140 0.160  |   |   |   |   |   |                     |
| 356    | 2800             | 0.246            | 4,710 0.097                    | 1,420 0.180  |   |   |   |   |   |                     |
| 382    | 3000             | 0.283            | 5,070 0.125                    | 1,700 0.200  | 502 0.340   |   |   |   |   |                     |
| 408    | 3200             | 0.322            | 5,380 0.145                    | 1,980 0.230  | 805 0.365   |   |   |   |   |                     |
| 433    | 3400             | 0.363            | 5,700 0.175                    | 2,280 0.260  | 1,190 0.395                                       |   |   |   |   |                     |
| 459    | 3600             | 0.407            | 6,040 0.205                    | 2,580 0.290  | 1,490 0.435                                       |   |   |   |   |                     |
| 485    | 3800             | 0.453            | 6,380 0.240                    | 2,880 0.325  | 1,780 0.47  | 800 0.63  |   |   |   |                     |
| 510    | 4000             | 0.502            | 6,730 0.280                    | 3,210 0.365  | 2,070 0.52  | 1,200 0.68  |   |   |   |                     |
| 535    | 4200             | 0.554            | 7,080 0.325                    | 3,520 0.40   | 2,330 0.56  | 1,530 0.73  | 600 0.93  |   |   |                     |
| 560    | 4400             | 0.608            | 7,370 0.375                    | 3,880 0.45   | 2,620 0.61  | 1,820 0.79  | 996 0.96  |   |   |                     |
| 585    | 4600             | 0.665            | 7,730 0.43                     |  | 2,920 0.68  | 2,080 0.85  | 1,380 1.05  |   |   |                     |
| 611    | 4800             | 0.724            | 8,060 0.49                     |  | 3,210 0.73  | 2,380 0.91  | 1,680 1.10  |   |   |                     |
| 636    | 5000             | 0.785            | 8,400 0.55                     |  | 3,490 0.78  | 2,650 0.98  | 1,990 1.20  |   |   |                     |
| 669    | 5250             | 0.865            | 8,850 0.64                     |  | 3,870 0.87  | 3,010 1.10  | 2,350 1.30  | 958 1.75  |   |                     |
| 700    | 5500             | 0.95             | 9,230 0.74                     |  | 4,240 0.96  | 3,380 1.15  | 2,710 1.40  | 1,440 1.85  |   |                     |
| 732    | 5750             | 1.04             | 9,680 0.84                     |  | 4,680 1.10  | 3,730 1.25  | 3,050 1.50  | 1,870 2.00  |   |                     |
| 765    | 6000             | 1.13             | 10,100 0.95                    |  | 5,140 1.20  | 4,120 1.40  | 3,390 1.60  | 2,240 2.10  | 1,000 2.70  |                     |
| 796    | 6250             | 1.23             | 10,500 1.10                    |  | 5,570 1.30  | 4,480 1.55  | 3,750 1.75  | 2,610 2.25  | 1,480 2.80  |                     |
| 826    | 6500             | 1.33             | 10,900 1.20                    |  | 5,980 1.45  | 4,800 1.65  | 4,120 1.9   | 2,940 2.4   | 1,920 3.00  |                     |
| 860    | 6750             | 1.43             | 11,400 1.35                    |  |   | 5,220 1.75  | 4,470 2.0   | 3,320 2.6   | 2,320 3.15  |                     |
| 891    | 7000             | 1.54             | 11,800 1.5                     |  |   | 5,650 1.95  | 4,850 2.2   | 3,650 2.7   | 2,690 3.25  |                     |

## 36" Sturtevant-Davidson Propeller Fan

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Room Resistances.  
Volumes Measured by Anemometer Through Rectangular Opening in Wall. Co-efficient .82

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure Free Discharge | Static Pressure 1/4" Water .0722 ozs. per sq. inch | Static Pressure 1/4" Water .145 ozs. per sq. inch | Static Pressure 1/4" Water .217 ozs. per sq. inch | Static Pressure 1/4" Water .289 ozs. per sq. inch | Static Pressure 1/4" Water .434 ozs. per sq. inch | Static Pressure 1/4" Water .578 ozs. per sq. inch |  |
|--------|------------------|------------------|--------------------------------|--|---|---|---|---|---|--|
| 233    | 2200             | 0.152            | 5,320 0.067                    | 729 0.175  |   |   |   |   |   |  |
| 255    | 2400             | 0.181            | 5,810 0.088                    | 1,210 0.200  |   |   |   |   |   |  |
| 276    | 2600             | 0.212            | 6,280 0.110                    | 1,640 0.225  |   |   |   |   |   |  |
| 297    | 2800             | 0.246            | 6,780 0.140                    | 2,040 0.260  |   |   |   |   |   |  |
| 318    | 3000             | 0.283            | 7,280 0.180                    | 2,440 0.290  | 722 0.49  |   |   |   |   |  |
| 340    | 3200             | 0.322            | 7,770 0.210                    | 2,850 0.330  | 1,250 0.53  |   |   |   |   |  |
| 361    | 3400             | 0.363            | 8,210 0.250                    | 3,270 0.375  | 1,720 0.57  |   |   |   |   |  |
| 382    | 3600             | 0.407            | 8,690 0.295                    | 3,720 0.415  | 2,140 0.63  |   |   |   |   |  |
| 403    | 3800             | 0.453            | 9,190 0.350                    | 4,140 0.465  | 2,550 0.68  | 1,240 0.91  |   |   |   |  |
| 425    | 4000             | 0.502            | 9,700 0.405                    | 4,610 0.52   | 2,970 0.75  | 1,730 0.98  |   |   |   |  |
| 445    | 4200             | 0.554            | 10,200 0.47                    | 5,050 0.58   | 3,360 0.81  | 2,200 1.05  | 863 1.35  |   |   |  |
| 467    | 4400             | 0.608            | 10,600 0.54                    | 5,570 0.65   | 3,770 0.87  | 2,620 1.15  | 1,440 1.40  |   |   |  |
| 488    | 4600             | 0.665            | 11,200 0.62                    |  | 4,190 0.97  | 2,990 1.20  | 1,980 1.55  |   |   |  |
| 510    | 4800             | 0.724            | 11,600 0.70                    |  | 4,620 1.05  | 3,430 1.30  | 2,410 1.60  |   |   |  |
| 531    | 5000             | 0.785            | 12,100 0.79                    |  | 5,020 1.15  | 3,820 1.40  | 2,860 1.70  |   |   |  |
| 557    | 5250             | 0.865            | 12,800 0.92                    |  | 5,570 1.25  | 4,340 1.55  | 3,380 1.85  | 1,380 2.50  |   |  |
| 584    | 5500             | 0.95             | 13,300 1.05                    |  | 6,110 1.40  | 4,870 1.70  | 3,890 2.00  | 2,070 2.70  |   |  |
| 610    | 5750             | 1.04             | 13,900 1.20                    |  | 6,740 1.55  | 5,370 1.85  | 4,390 2.15  | 2,690 2.85  |   |  |
| 637    | 6000             | 1.13             | 14,500 1.35                    |  | 7,390 1.70  | 5,900 2.00  | 4,880 2.30  | 3,230 3.05  | 1,440 3.9   |  |
| 663    | 6250             | 1.23             | 15,200 1.55                    |  | 8,010 1.90  | 6,470 2.20  | 5,400 2.50  | 3,760 3.25  | 2,120 4.0   |  |
| 690    | 6500             | 1.33             | 15,700 1.75                    |  | 8,600 2.05  | 6,980 2.35  | 5,930 2.75  | 4,230 3.45  | 2,700 4.3   |  |
| 716    | 6750             | 1.43             | 16,400 1.95                    |  |   | 7,500 2.55  | 6,430 2.90  | 4,740 3.7   | 3,350 4.5   |  |
| 743    | 7000             | 1.54             | 16,900 2.2                     |  |   | 8,140 2.8   | 6,980 3.15  | 5,250 3.9   | 3,860 4.7   |  |

## 42" Sturtevant-Davidson Propeller Fan

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Room Resistances.  
Volumes Measured by Anemometer Through Rectangular Opening in Wall. Co-efficient .82

| R.P.M. | Tip Speed<br>F.P.M. | S.N.D.<br>in<br>Inches | Volume<br>C.F.M.                  | H. P. | Volume<br>C.F.M.  | H. P. | Volume<br>C.F.M.   | H. P. | Volume<br>C.F.M.   | H. P. | Volume<br>C.F.M.   | H. P. | Volume<br>C.F.M.   | H. P. | Volume<br>C.F.M.   | H. P. |
|--------|---------------------|------------------------|-----------------------------------|-------|---|-------|--|-------|--|-------|--|-------|--|-------|--|-------|
|        |                     |                        | Static Pressure<br>Free Discharge |       | Static Pressure<br>1/4" Water<br>.0722 ozs. per<br>sq. inch |       | Static Pressure<br>1/4" Water<br>.145 ozs. per<br>sq. inch |       | Static Pressure<br>1/4" Water<br>.217 ozs. per<br>sq. inch |       | Static Pressure<br>1/4" Water<br>.289 ozs. per<br>sq. inch |       | Static Pressure<br>1/4" Water<br>.344 ozs. per<br>sq. inch |       | Static Pressure<br>1/4" Water<br>.578 ozs. per<br>sq. inch |       |
| 200    | 2200                | 0.152                  | 7,230                             | 0.091 | 992   | 0.240 |  |       |  |       |  |       |  |       |  |       |
| 218    | 2400                | 0.181                  | 7,910                             | 0.120 | 1,650   | 0.275 |  |       |  |       |  |       |  |       |  |       |
| 230    | 2600                | 0.212                  | 8,550                             | 0.150 | 2,240   | 0.310 |  |       |  |       |  |       |  |       |  |       |
| 255    | 2800                | 0.246                  | 9,220                             | 0.190 | 2,780   | 0.350 |  |       |  |       |  |       |  |       |  |       |
| 273    | 3000                | 0.283                  | 9,910                             | 0.250 | 3,320   | 0.395 | 982  | 0.67  |  |       |  |       |  |       |  |       |
| 291    | 3200                | 0.322                  | 10,600                            | 0.285 | 3,880   | 0.445 | 1,700  | 0.71  |  |       |  |       |  |       |  |       |
| 309    | 3400                | 0.363                  | 11,200                            | 0.340 | 4,460   | 0.51  | 2,330  | 0.77  |  |       |  |       |  |       |  |       |
| 329    | 3600                | 0.407                  | 11,900                            | 0.400 | 5,080   | 0.56  | 2,920  | 0.85  |  |       |  |       |  |       |  |       |
| 346    | 3800                | 0.453                  | 12,500                            | 0.475 | 5,640   | 0.63  | 3,480  | 0.92  | 1,690  | 1.25  |  |       |  |       |  |       |
| 364    | 4000                | 0.502                  | 13,200                            | 0.55  | 6,240   | 0.71  | 4,050  | 1.00  | 2,350  | 1.35  |  |       |  |       |  |       |
| 382    | 4200                | 0.554                  | 13,900                            | 0.64  | 6,870   | 0.79  | 4,570  | 1.10  | 3,000  | 1.45  | 1,180  | 1.85  |  |       |  |       |
| 400    | 4400                | 0.608                  | 14,500                            | 0.73  | 7,570   | 0.88  | 5,120  | 1.20  | 3,560  | 1.55  | 1,960  | 1.90  |  |       |  |       |
| 418    | 4600                | 0.665                  | 15,200                            | 0.84  |   |       | 5,720  | 1.30  | 4,070  | 1.65  | 2,700  | 2.10  |  |       |  |       |
| 436    | 4800                | 0.724                  | 15,800                            | 0.95  |   |       | 6,300  | 1.40  | 4,570  | 1.80  | 3,280  | 2.20  |  |       |  |       |
| 455    | 5000                | 0.785                  | 16,500                            | 1.10  |   |       | 6,850  | 1.55  | 5,200  | 1.90  | 3,900  | 2.35  |  |       |  |       |
| 478    | 5250                | 0.865                  | 17,400                            | 1.25  |   |       | 7,600  | 1.70  | 5,910  | 2.10  | 4,600  | 2.55  | 1,880  | 3.40  |  |       |
| 500    | 5500                | 0.95                   | 18,100                            | 1.45  |   |       | 8,320  | 1.85  | 6,610  | 2.30  | 5,300  | 2.75  | 2,810  | 3.65  |  |       |
| 523    | 5750                | 1.04                   | 19,000                            | 1.65  |   |       | 9,180  | 2.1   | 7,300  | 2.50  | 5,980  | 2.95  | 3,660  | 3.90  |  |       |
| 545    | 6000                | 1.13                   | 19,800                            | 1.85  |   |       | 10,100   | 2.3   | 8,030  | 2.75  | 6,640  | 3.15  | 4,380  | 4.15  | 1,970  | 5.3   |
| 569    | 6250                | 1.23                   | 20,600                            | 2.10  |   |       | 10,900   | 2.6   | 8,780  | 3.00  | 7,340  | 3.45  | 5,110  | 4.4   | 2,890  | 5.5   |
| 591    | 6500                | 1.33                   | 21,400                            | 2.35  |   |       | 11,700   | 2.8   | 9,520  | 3.20  | 8,060  | 3.70  | 5,750  | 4.7   | 3,770  | 5.8   |
| 614    | 6750                | 1.43                   | 22,200                            | 2.65  |   |       |  |       | 10,200   | 3.45  | 8,760  | 3.95  | 6,500  | 5.0   | 4,550  | 6.2   |
| 636    | 7000                | 1.54                   | 23,000                            | 2.95  |   |       |  |       | 11,100   | 3.8   | 9,490  | 4.3   | 7,150  | 5.3   | 5,260  | 6.4   |

## 48" Sturtevant-Davidson Propeller Fan

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Room Resistances.  
Volumes Measured by Anemometer Through Rectangular Opening in Wall. Co-efficient .82

| R.P.M. | Tip Speed<br>F.P.M. | S.N.D.<br>in<br>Inches | Static Pressure<br>Free Discharge | Static Pressure<br>1/4" Water<br>.0722 ozs. per<br>sq. inch | Static Pressure<br>1/4" Water<br>.145 ozs. per<br>sq. inch | Static Pressure<br>1/4" Water<br>.217 ozs. per<br>sq. inch | Static Pressure<br>1/4" Water<br>.289 ozs. per<br>sq. inch | Static Pressure<br>1/4" Water<br>.344 ozs. per<br>sq. inch | Static Pressure<br>1/4" Water<br>.578 ozs. per<br>sq. inch |
|--------|---------------------|------------------------|-----------------------------------|---|--|--|--|--|--|
|        |                     |                        |                                   |   |  |  |  |  |  |
| 175    | 2200                | 0.152                  | 9,450                             | 0.120   | 1,300  | 0.310  |  |  |  |
| 191    | 2400                | 0.181                  | 10,300                            | 0.155   | 2,150  | 0.380  |  |  |  |
| 207    | 2600                | 0.212                  | 11,200                            | 0.200   | 2,920  | 0.405  |  |  |  |
| 223    | 2800                | 0.246                  | 12,000                            | 0.250   | 3,630  | 0.46   |  |  |  |
| 239    | 3000                | 0.283                  | 13,000                            | 0.325   | 4,330  | 0.52   | 1,280  | 0.88   |  |
| 255    | 3200                | 0.322                  | 13,800                            | 0.370   | 5,070  | 0.58   | 2,210  | 0.93   |  |
| 271    | 3400                | 0.363                  | 14,600                            | 0.445   | 5,820  | 0.66   | 3,040  | 1.00   |  |
| 287    | 3600                | 0.407                  | 15,500                            | 0.53  | 6,610  | 0.74   | 3,810  | 1.10   |  |
| 302    | 3800                | 0.453                  | 16,400                            | 0.62  | 7,360  | 0.83   | 4,530  | 1.20   | 2,200  |
| 319    | 4000                | 0.502                  | 17,300                            | 0.72  | 8,190  | 0.93   | 5,280  | 1.35   | 3,070  |
| 334    | 4200                | 0.554                  | 18,100                            | 0.84  | 8,970  | 1.00   | 5,970  | 1.45   | 3,910  |
| 350    | 4400                | 0.608                  | 18,900                            | 0.96  | 9,900  | 1.15   | 6,390  | 1.55   | 4,650  |
| 366    | 4600                | 0.666                  | 19,800                            | 1.10  |  |  | 7,460  | 1.70   | 5,320  |
| 382    | 4800                | 0.724                  | 20,600                            | 1.25  |  |  | 8,200  | 1.85   | 6,100  |
| 398    | 5000                | 0.785                  | 21,500                            | 1.40  |  |  | 8,920  | 2.00   | 6,780  |
| 418    | 5250                | 0.865                  | 22,600                            | 1.65  |  |  | 9,900  | 2.20   | 7,720  |
| 438    | 5500                | 0.95                   | 23,700                            | 1.90  |  |  | 10,900   | 2.45   | 8,640  |
| 458    | 5750                | 1.04                   | 24,800                            | 2.15  |  |  | 12,000   | 2.75   | 9,540  |
| 478    | 6000                | 1.13                   | 25,800                            | 2.45  |  |  | 13,200   | 3.05   | 10,500   |
| 498    | 6250                | 1.23                   | 26,900                            | 2.75  |  |  | 14,200   | 3.35   | 11,500   |
| 517    | 6500                | 1.33                   | 27,900                            | 3.10  |  |  | 15,300   | 3.7  | 12,400   |
| 537    | 6750                | 1.43                   | 29,100                            | 3.45  |  |  |  |  | 13,300   |
| 557    | 7000                | 1.54                   | 30,000                            | 3.85  |  |  |  |  | 14,500   |

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Room Resistances.  
Volumes Measured by Anemometer Through Rectangular Opening in Wall. Co-efficient .82

## 60" Sturtevant-Davidson Propeller Fan

**When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Room Resistances.  
Volumes Measured by Anemometer Through Rectangular Opening in Wall. Co-efficient .82**

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## 66" Sturtevant-Davidson Propeller Fan

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Room Resistances.  
Volumes Measured by Anemometer Through Rectangular Opening in Wall. Co-efficient .82

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.                  | H. P. | Volume C.F.M.                                      | H. P. | Volume C.F.M.                                     | H. P. | Volume C.F.M.                                     | H. P. | Volume C.F.M.                                     | H. P. | Volume C.F.M.                                     | H. P. | Volume C.F.M.                                   | H. P. |
|--------|------------------|------------------|--------------------------------|-------|--|-------|---|-------|---|-------|---|-------|---|-------|---|-------|
|        |                  |                  | Static Pressure Free Discharge |       | Static Pressure 3/4" Water .0722 oss. per sq. inch |       | Static Pressure 1/4" Water .145 oss. per sq. inch |       | Static Pressure 3/8" Water .217 oss. per sq. inch |       | Static Pressure 1/2" Water .289 oss. per sq. inch |       | Static Pressure 5/8" Water .344 oss. per sq. inch |       | Static Pressure 1" Water .578 oss. per sq. inch |       |
| 127    | 2200             | 0 152            | 17,900                         | 0.225 | 2,460  | 0.59  |   |       |   |       |   |       |   |       |   |       |
| 139    | 2400             | 0 181            | 19,600                         | 0.295 | 4,070  | 0.68  |   |       |   |       |   |       |   |       |   |       |
| 150    | 2600             | 0 212            | 21,100                         | 0.375 | 5,530  | 0.77  |   |       |   |       |   |       |   |       |   |       |
| 162    | 2800             | 0 246            | 22,800                         | 0.47  | 6,890  | 0.87  |   |       |   |       |   |       |   |       |   |       |
| 174    | 3000             | 0 283            | 24,500                         | 0.61  | 8,220  | 0.98  | 2,430   | 1.65  |   |       |   |       |   |       |   |       |
| 185    | 3200             | 0 322            | 26,100                         | 0.70  | 9,590  | 1.10  | 4,200   | 1.75  |   |       |   |       |   |       |   |       |
| 197    | 3400             | 0 363            | 27,600                         | 0.84  | 11,000   | 1.25  | 5,760   | 1.90  |   |       |   |       |   |       |   |       |
| 208    | 3600             | 0 407            | 29,300                         | 1.00  | 12,500   | 1.40  | 7,220   | 2.10  |   |       |   |       |   |       |   |       |
| 220    | 3800             | 0 453            | 31,000                         | 1.15  | 13,000   | 1.55  | 8,600   | 2.30  | 4,170   | 3.05  |   |       |   |       |   |       |
| 231    | 4000             | 0 502            | 32,600                         | 1.35  | 15,500   | 1.75  | 10,000  | 2.50  | 5,820   | 3.30  |   |       |   |       |   |       |
| 243    | 4200             | 0 551            | 34,300                         | 1.60  | 17,000   | 1.95  | 11,300  | 2.70  | 7,410   | 3.55  | 2,910   | 4.5   |   |       |   |       |
| 255    | 4400             | 0 608            | 35,700                         | 1.80  | 18,800   | 2.2   | 12,700  | 2.95  | 8,810   | 3.85  | 4,850   | 4.7   |   |       |   |       |
| 266    | 4600             | 0 665            | 37,500                         | 2.05  |  |       | 14,200  | 3.25  | 10,100  | 4.15  | 6,680   | 5.2   |   |       |   |       |
| 278    | 4800             | 0 724            | 39,000                         | 2.35  |  |       | 15,600  | 3.50  | 11,600  | 4.40  | 8,130   | 5.5   |   |       |   |       |
| 289    | 5000             | 0 785            | 40,700                         | 2.70  |  |       | 16,900  | 3.80  | 12,900  | 4.75  | 9,650   | 5.8   |   |       |   |       |
| 304    | 5250             | 0 865            | 42,800                         | 3.10  |  |       | 18,800  | 4.20  | 14,600  | 5.2   | 11,400  | 6.3   | 4,640   | 8.4   |   |       |
| 318    | 5500             | 0 95             | 44,800                         | 3.55  |  |       | 20,600  | 4.65  | 16,400  | 5.7   | 13,100  | 6.8   | 6,960   | 9.0   |   |       |
| 333    | 5750             | 1 04             | 46,800                         | 4.05  |  |       | 22,700  | 5.2   | 18,100  | 6.2   | 14,800  | 7.3   | 9,050   | 9.6   |   |       |
| 347    | 6000             | 1 13             | 48,800                         | 4.6   |  |       | 24,900  | 5.7   | 19,900  | 6.8   | 16,400  | 7.8   | 10,900  | 10.0  | 4,860   | 13.0  |
| 361    | 6250             | 1 23             | 50,900                         | 5.2   |  |       | 27,000  | 6.4   | 21,700  | 7.4   | 18,200  | 8.5   | 12,700  | 11.0  | 7,140   | 13.5  |
| 375    | 6500             | 1 33             | 52,800                         | 5.9   |  |       | 28,900  | 7     | 23,500  | 8.0   | 20,000  | 9.2   | 14,300  | 11.5  | 9,290   | 14.5  |
| 390    | 6750             | 1 43             | 55,000                         | 6.6   |  |       |   |       | 25,300  | 8.6   | 21,700  | 9.8   | 16,100  | 12.5  | 11,300  | 15    |
| 405    | 7000             | 1 54             | 56,900                         | 7.3   |  |       |   |       | 27,400  | 9.4   | 23,500  | 10.5  | 17,700  | 13    | 13,000  | 16    |

## 72" Sturtevant-Davidson Propeller Fan

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Room Resistances.  
Volumes Measured by Anemometer Through Rectangular Opening in Wall. Co-efficient .82

| R.P.M. | Tip Speed<br>F.P.M. | S.N.D.<br>in<br>inches | Static Pressure<br>Free Discharge |       | Static Pressure<br>¾" Water<br>.0722 ozs. per<br>sq. inch | Static Pressure<br>½" Water<br>.145 ozs. per<br>sq. inch | Static Pressure<br>⅜" Water<br>.217 ozs. per<br>sq. inch | Static Pressure<br>¼" Water<br>.289 ozs. per<br>sq. inch | Static Pressure<br>⅓" Water<br>.434 ozs. per<br>sq. inch | Static Pressure<br>1" Water<br>.578 ozs. per<br>sq. inch |        |      |        |      |        |      |
|--------|---------------------|------------------------|-----------------------------------|-------|---|--|--|--|--|--|--------|------|--------|------|--------|------|
| 117    | 2200                | 0 152                  | 21,300                            | 0.270 | 2,920   | 0.70   |  |  |  |  |        |      |        |      |        |      |
| 127    | 2400                | 0 181                  | 23,300                            | 0.350 | 4,850   | 0.81   |  |  |  |  |        |      |        |      |        |      |
| 138    | 2600                | 0 212                  | 25,200                            | 0.445 | 6,580   | 0.91   |  |  |  |  |        |      |        |      |        |      |
| 148    | 2800                | 0 246                  | 27,100                            | 0.56  | 8,190   | 1.05   |  |  |  |  |        |      |        |      |        |      |
| 159    | 3000                | 0 283                  | 29,200                            | 0.73  | 9,770   | 1.15   | 2,890  | 1.95   |  |  |        |      |        |      |        |      |
| 170    | 3200                | 0 322                  | 31,100                            | 0.83  | 11,400  | 1.30   | 4,980  | 2.10   |  |  |        |      |        |      |        |      |
| 180    | 3400                | 0.363                  | 32,900                            | 1.00  | 13,100  | 1.50   | 6,850  | 2.25   |  |  |        |      |        |      |        |      |
| 191    | 3600                | 0 407                  | 34,800                            | 1.20  | 14,900  | 1.65   | 8,580  | 2.50   |  |  |        |      |        |      |        |      |
| 202    | 3800                | 0 453                  | 36,800                            | 1.40  | 16,600  | 1.85   | 10,200   | 2.7  | 4,960  | 3.65   |        |      |        |      |        |      |
| 212    | 4000                | 0 502                  | 38,800                            | 1.60  | 18,500  | 2.1  | 11,900   | 3.0  | 6,900  | 3.9  |        |      |        |      |        |      |
| 223    | 4200                | 0 554                  | 40,800                            | 1.90  | 20,200  | 2.3  | 13,450   | 3.2  | 8,800  | 4.2  | 3,460  | 5.4  |        |      |        |      |
| 233    | 4400                | 0 608                  | 42,500                            | 2.15  | 22,300  | 2.6  | 15,100   | 3.5  | 10,500   | 4.6  | 5,750  | 5.6  |        |      |        |      |
| 244    | 4600                | 0 665                  | 44,600                            | 2.45  |   |  | 16,800   | 3.9  | 12,000   | 4.9  | 7,930  | 6.2  |        |      |        |      |
| 254    | 4800                | 0 724                  | 46,500                            | 2.80  |   |  | 18,500   | 4.2  | 13,800   | 5.3  | 9,660  | 6.5  |        |      |        |      |
| 265    | 5000                | 0 785                  | 48,400                            | 3.20  |   |  | 20,100   | 4.5  | 15,300   | 5.6  | 11,500 | 6.9  |        |      |        |      |
| 278    | 5250                | 0 865                  | 51,000                            | 3.65  |   |  | 22,300   | 5.0  | 17,400   | 6.2  | 13,500 | 7.5  | 5,520  | 10.0 |        |      |
| 292    | 5500                | 0 95                   | 53,200                            | 4.25  |   |  | 24,400   | 5.5  | 19,500   | 6.8  | 15,600 | 8.0  | 8,280  | 10.5 |        |      |
| 305    | 5750                | 1 04                   | 55,800                            | 4.85  |   |  | 27,000   | 6.2  | 21,500   | 7.3  | 17,600 | 8.7  | 10,800 | 11.5 |        |      |
| 318    | 6000                | 1 13                   | 58,200                            | 5.5   |   |  | 29,600   | 6.8  | 23,600   | 8.0  | 19,500 | 9.3  | 12,900 | 12.0 | 5,780  | 15.5 |
| 331    | 6250                | 1 23                   | 60,600                            | 6.2   |   |  | 32,100   | 7.6  | 25,800   | 8.8  | 21,600 | 10.0 | 15,000 | 13.0 | 8,500  | 16   |
| 345    | 6500                | 1.33                   | 62,800                            | 7.0   |   |  | 34,400   | 8.3  | 27,900   | 9.5  | 23,700 | 11.0 | 16,900 | 14.0 | 11,000 | 17   |
| 358    | 6750                | 1.43                   | 65,500                            | 7.8   |   |  |  |  | 30,000   | 10   | 25,800 | 11.5 | 19,100 | 15.0 | 13,400 | 18   |
| 371    | 7000                | 1.54                   | 67,800                            | 8.7   |   |  |  |  | 32,600   | 11   | 27,900 | 12.5 | 21,000 | 15.5 | 15,500 | 19   |

## 78" Sturtevant-Davidson Propeller Fan

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Room Resistances  
Volumes Measured by Anemometer Through Rectangular Opening in Wall. Co-efficient .82

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.                  | H. P. | Volume C.F.M.                                      | H. P. | Volume C.F.M.                                     | H. P. | Volume C.F.M.                                   | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. |
|--------|------------------|------------------|--------------------------------|-------|--|-------|---|-------|---|-------|---|-------|---|-------|---|-------|
|        |                  |                  | Static Pressure Free Discharge |       | Static Pressure 1/2" Water .0722 ozs. per sq. inch |       | Static Pressure 3/4" Water .145 ozs. per sq. inch |       | Static Pressure 1" Water .217 ozs. per sq. inch |       | Static Pressure 1 1/4" Water .289 ozs. per sq. inch |       | Static Pressure 1 1/2" Water .434 ozs. per sq. inch |       | Static Pressure 1 3/4" Water .578 ozs. per sq. inch |       |
| 108    | 2200             | 0.152            | 25,000                         | 0.315 | 3,430  | 0.83  |   |       |   |       |   |       |   |       |   |       |
| 117    | 2400             | 0.181            | 27,300                         | 0.415 | 5,680  | 0.95  |   |       |   |       |   |       |   |       |   |       |
| 127    | 2600             | 0.212            | 29,500                         | 0.52  | 7,710  | 1.05  |   |       |   |       |   |       |   |       |   |       |
| 137    | 2800             | 0.246            | 31,800                         | 0.65  | 9,600  | 1.20  |   |       |   |       |   |       |   |       |   |       |
| 147    | 3000             | 0.283            | 34,200                         | 0.86  | 11,450   | 1.35  | 3,390   | 2.30  |   |       |   |       |   |       |   |       |
| 156    | 3200             | 0.322            | 36,400                         | 0.98  | 13,400   | 1.55  | 5,850   | 2.45  |   |       |   |       |   |       |   |       |
| 166    | 3400             | 0.363            | 38,500                         | 1.15  | 15,400   | 1.75  | 8,040   | 2.65  |   |       |   |       |   |       |   |       |
| 176    | 3600             | 0.407            | 40,800                         | 1.40  | 17,500   | 1.95  | 10,100  | 2.95  |   |       |   |       |   |       |   |       |
| 186    | 3800             | 0.453            | 43,200                         | 1.65  | 19,500   | 2.20  | 12,000  | 3.20  | 5,820   | 4.30  |   |       |   |       |   |       |
| 195    | 4000             | 0.502            | 45,500                         | 1.90  | 21,700   | 2.45  | 14,000  | 3.50  | 8,100   | 4.60  |   |       |   |       |   |       |
| 205    | 4200             | 0.554            | 47,800                         | 2.20  | 23,700   | 2.70  | 15,800  | 3.80  | 10,350  | 4.95  | 4,050   | 6.3   |   |       |   |       |
| 215    | 4400             | 0.608            | 49,800                         | 2.55  | 26,200   | 3.05  | 17,700  | 4.10  | 12,300  | 5.4   | 6,750   | 6.5   |   |       |   |       |
| 225    | 4600             | 0.665            | 52,300                         | 2.90  |  |       | 19,700  | 4.55  | 14,100  | 5.8   | 9,300   | 7.3   |   |       |   |       |
| 234    | 4800             | 0.724            | 54,500                         | 3.30  |  |       | 21,700  | 4.9   | 16,100  | 6.2   | 11,300  | 7.6   |   |       |   |       |
| 244    | 5000             | 0.785            | 56,800                         | 3.70  |  |       | 23,600  | 5.3   | 18,000  | 6.6   | 13,500  | 8.1   |   |       |   |       |
| 257    | 5250             | 0.865            | 59,800                         | 4.30  |  |       | 26,200  | 5.9   | 20,400  | 7.3   | 15,900  | 8.7   | 6,480   | 11.5  |   |       |
| 269    | 5500             | 0.95             | 62,400                         | 4.95  |  |       | 28,700  | 6.5   | 22,800  | 7.9   | 18,300  | 9.4   | 9,700   | 12.5  |   |       |
| 281    | 5750             | 1.04             | 65,500                         | 5.7   |  |       | 31,600  | 7.3   | 25,200  | 8.6   | 20,700  | 10.0  | 12,600  | 13.5  |   |       |
| 293    | 6000             | 1.13             | 68,100                         | 6.4   |  |       | 34,800  | 8.0   | 27,700  | 9.4   | 22,900  | 11.0  | 15,200  | 14.5  | 6,780   | 18.5  |
| 306    | 6250             | 1.23             | 71,000                         | 7.3   |  |       | 37,600  | 8.9   | 30,400  | 10.5  | 25,400  | 12.0  | 17,700  | 15.0  | 9,980   | 19.0  |
| 318    | 6500             | 1.33             | 73,800                         | 8.2   |  |       | 40,300  | 9.7   | 32,800  | 11    | 27,900  | 13.0  | 19,900  | 16.0  | 13,000  | 20.0  |
| 330    | 6750             | 1.43             | 76,700                         | 9.2   |  |       |   |       | 35,200  | 12    | 30,300  | 13.5  | 22,400  | 17.5  | 15,700  | 21.5  |
| 343    | 7000             | 1.54             | 79,500                         | 10    |  |       |   |       | 38,300  | 13    | 32,800  | 15    | 24,700  | 18.5  | 18,200  | 22    |

## 84" Sturtevant-Davidson Propeller Fan

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Room Resistances  
Volumes Measured by Anemometer Through Rectangular Opening in Wall. Co-efficient .82

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure Free Discharge | Static Pressure 1/2" Water .0722 ozs. per sq. inch | Static Pressure 3/4" Water .145 ozs. per sq. inch | Static Pressure 1" Water .217 ozs. per sq. inch | Static Pressure 1 1/4" Water .289 ozs. per sq. inch | Static Pressure 1 1/2" Water .434 ozs. per sq. inch | Static Pressure 1 3/4" Water .578 ozs. per sq. inch |
|--------|------------------|------------------|--------------------------------|--|---|---|---|---|---|
| 100    | 2200             | 0.152            | 28,900                         | 0.365  | 3,970   | 0.96  |   |   |   |
| 109    | 2400             | 0.181            | 31,600                         | 0.48   | 6,580   | 1.10  |   |   |   |
| 118    | 2600             | 0.212            | 34,200                         | 0.60   | 8,910   | 1.25  |   |   |   |
| 127    | 2800             | 0.246            | 36,900                         | 0.76   | 11,100  | 1.40  |   |   |   |
| 136    | 3000             | 0.283            | 39,700                         | 0.99   | 13,300  | 1.60  | 3,930   | 2.70  |   |
| 145    | 3200             | 0.322            | 42,200                         | 1.15   | 15,500  | 1.80  | 6,780   | 2.85  |   |
| 155    | 3400             | 0.363            | 44,700                         | 1.35   | 17,800  | 2.05  | 9,300   | 3.10  |   |
| 164    | 3600             | 0.407            | 47,400                         | 1.60   | 20,300  | 2.25  | 11,700  | 3.40  |   |
| 173    | 3800             | 0.453            | 50,100                         | 1.90   | 22,500  | 2.55  | 13,900  | 3.70  | 6,740 5.0   |
| 182    | 4000             | 0.502            | 52,700                         | 2.20   | 25,100  | 2.85  | 16,200  | 4.05  | 9,400 5.3   |
| 191    | 4200             | 0.554            | 55,400                         | 2.55   | 27,500  | 3.15  | 18,300  | 4.40  | 12,000 5.7  |
| 200    | 4400             | 0.608            | 57,800                         | 2.95   | 30,300  | 3.55  | 20,500  | 4.75  | 14,300 6.2  |
| 209    | 4600             | 0.665            | 60,700                         | 3.35   |   |   | 22,900  | 5.3   | 16,300 6.7  |
| 218    | 4800             | 0.724            | 63,200                         | 3.8  |   |   | 25,200  | 5.7   | 18,700 7.2  |
| 228    | 5000             | 0.785            | 65,900                         | 4.3  |   |   | 27,300  | 6.1   | 20,800 7.7  |
| 239    | 5250             | 0.865            | 69,400                         | 5.0  |   |   | 30,300  | 6.7   | 23,700 8.4  |
| 250    | 5500             | 0.95             | 72,300                         | 5.8  |   |   | 33,300  | 7.5   | 26,500 9.2  |
| 262    | 5750             | 1.04             | 75,800                         | 6.6  |   |   | 36,600  | 8.4   | 29,200 10   |
| 272    | 6000             | 1.13             | 78,900                         | 7.5  |   |   | 40,300  | 9.3   | 32,100 11   |
| 284    | 6250             | 1.23             | 82,300                         | 8.4  |   |   | 43,700  | 10.5  | 35,200 12   |
| 296    | 6500             | 1.33             | 85,500                         | 9.5  |   |   | 46,800  | 11  | 38,000 13   |
| 307    | 6750             | 1.43             | 89,000                         | 10.5   |   |   |   |   | 40,800 14   |
| 318    | 7000             | 1.54             | 92,000                         | 12   |   |   |   |   | 44,300 15   |
|        |                  |                  |                                |  |   |   |   |   | 32,300 15   |
|        |                  |                  |                                |  |   |   |   |   | 35,000 16   |
|        |                  |                  |                                |  |   |   |   |   | 38,000 17   |
|        |                  |                  |                                |  |   |   |   |   | 23,000 19   |
|        |                  |                  |                                |  |   |   |   |   | 20,000 20   |
|        |                  |                  |                                |  |   |   |   |   | 28,600 21   |
|        |                  |                  |                                |  |   |   |   |   | 15,000 23.5   |
|        |                  |                  |                                |  |   |   |   |   | 18,200 24.5   |
|        |                  |                  |                                |  |   |   |   |   | 21,000 25   |



## 96" Sturtevant-Davidson Propeller Fan

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Room Resistance  
Volumes Measured by Anemometer Through Rectangular Opening in Wall. Co-efficient .82

| R.P.M. | Tip Speed<br>F.P.M. | S.N.D.<br>in<br>inches | Volume<br>C.F.M.                  | H. P. | Volume<br>C.F.M.  | H. P. | Volume<br>C.F.M.   | H. P. | Volume<br>C.F.M.   | H. P. | Volume<br>C.F.M.   | H. P. | Volume<br>C.F.M.   | H. P. | Volume<br>C.F.M.                                       | H |
|--------|---------------------|------------------------|-----------------------------------|-------|---|-------|--|-------|--|-------|--|-------|--|-------|--|---|
|        |                     |                        | Static Pressure<br>Free Discharge |       | Static Pressure<br>1/4" Water<br>.0722 ozs. per<br>sq. inch |       | Static Pressure<br>1/4" Water<br>.145 ozs. per<br>sq. inch |       | Static Pressure<br>3/8" Water<br>.217 ozs. per<br>sq. inch |       | Static Pressure<br>1/2" Water<br>.289 ozs. per<br>sq. inch |       | Static Pressure<br>3/4" Water<br>.434 ozs. per<br>sq. inch |       | Static Pressure<br>1" Water<br>.578 ozs. p<br>sq. inch |   |
| 88     | 2200                | 0.152                  | 37,900                            | 0.48  | 5,180   | 1.25  |  |       |  |       |  |       |  |       |  |   |
| 96     | 2400                | 0.181                  | 41,300                            | 0.62  | 8,600   | 1.45  |  |       |  |       |  |       |  |       |  |   |
| 103    | 2600                | 0.212                  | 44,700                            | 0.79  | 11,700  | 1.60  |  |       |  |       |  |       |  |       |  |   |
| 111    | 2800                | 0.246                  | 48,200                            | 0.99  | 14,500  | 1.85  |  |       |  |       |  |       |  |       |  |   |
| 119    | 3000                | 0.283                  | 51,900                            | 1.30  | 17,400  | 2.05  | 5,130  | 3.50  |  |       |  |       |  |       |  |   |
| 127    | 3200                | 0.322                  | 55,200                            | 1.50  | 20,300  | 2.35  | 8,860  | 3.75  |  |       |  |       |  |       |  |   |
| 135    | 3400                | 0.363                  | 58,400                            | 1.75  | 23,300  | 2.65  | 12,200   | 4.05  |  |       |  |       |  |       |  |   |
| 143    | 3600                | 0.407                  | 62,000                            | 2.10  | 26,500  | 2.95  | 15,300   | 4.45  |  |       |  |       |  |       |  |   |
| 151    | 3800                | 0.453                  | 65,500                            | 2.50  | 29,500  | 3.3   | 18,200   | 4.8   | 8,820  | 6.5   |  |       |  |       |  |   |
| 159    | 4000                | 0.502                  | 69,000                            | 2.90  | 32,800  | 3.7   | 21,100   | 5.3   | 12,300   | 7.0   |  |       |  |       |  |   |
| 167    | 4200                | 0.554                  | 72,500                            | 3.35  | 35,900  | 4.1   | 23,900   | 5.7   | 15,700   | 7.5   | 6,140  | 9.5   |  |       |  |   |
| 175    | 4400                | 0.608                  | 75,500                            | 3.85  | 39,600  | 4.6   | 26,800   | 6.2   | 18,600   | 8.1   | 10,200   | 9.9   |  |       |  |   |
| 183    | 4600                | 0.665                  | 79,200                            | 4.4   |   |       | 29,900   | 6.9   | 21,300   | 8.6   | 14,100   | 11.0  |  |       |  |   |
| 191    | 4800                | 0.724                  | 82,500                            | 5.0   |   |       | 32,900   | 7.4   | 24,400   | 9.3   | 17,200   | 11.5  |  |       |  |   |
| 198    | 5000                | 0.785                  | 86,000                            | 5.6   |   |       | 35,700   | 8.0   | 27,200   | 10.0  | 20,400   | 12.0  |  |       |  |   |
| 209    | 5250                | 0.865                  | 90,700                            | 6.5   |   |       | 39,700   | 8.8   | 30,900   | 11.0  | 24,100   | 13.0  | 9,830  | 17.5  |  |   |
| 218    | 5500                | 0.95                   | 94,800                            | 7.5   |   |       | 43,500   | 9.8   | 34,600   | 12.0  | 27,700   | 14.5  | 14,700   | 19.0  |  |   |
| 228    | 5750                | 1.04                   | 99,100                            | 8.6   |   |       | 48,000   | 11.0  | 38,200   | 13.0  | 31,300   | 15.5  | 19,100   | 20.5  |  |   |
| 239    | 6000                | 1.13                   | 103,000                           | 9.8   |   |       | 52,700   | 12.0  | 41,900   | 14.0  | 34,700   | 16.5  | 23,000   | 21.5  | 10,300   |   |
| 248    | 6250                | 1.23                   | 108,000                           | 11.0  |   |       | 57,000   | 13.5  | 45,900   | 15.5  | 38,400   | 18.0  | 26,700   | 23.0  | 15,100   |   |
| 259    | 6500                | 1.33                   | 112,000                           | 12.5  |   |       | 61,100   | 14.5  | 49,700   | 17    | 42,200   | 19.5  | 30,100   | 24.5  | 19,600   |   |
| 268    | 6750                | 1.43                   | 117,000                           | 14.0  |   |       |  |       | 53,400   | 18    | 45,800   | 20.5  | 34,000   | 26    | 23,800   |   |
| 278    | 7000                | 1.54                   | 121,000                           | 15.5  |   |       |  |       | 57,900   | 20    | 49,700   | 22.5  | 37,400   | 28    | 27,500   |   |

## 108" Sturtevant-Davidson Propeller Fan

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Room Resistance  
Volumes Measured by Anemometer Through Rectangular Opening in Wall. Co-efficient .82

| R.P.M. | Tip Speed<br>F.P.M. | S.N.D.<br>in<br>inches | Static Pressure<br>Free Discharge |      | Static Pressure<br>1/4" Water<br>.0722 ozs. per<br>sq. inch |      | Static Pressure<br>1/4" Water<br>.145 ozs. per<br>sq. inch |      | Static Pressure<br>3/8" Water<br>.217 ozs. per<br>sq. inch |      | Static Pressure<br>1/2" Water<br>.289 ozs. per<br>sq. inch |      | Static Pressure<br>3/4" Water<br>.434 ozs. per<br>sq. inch |    | Static Press<br>1" Water<br>.578 ozs. p<br>sq. inch |  |
|--------|---------------------|------------------------|-----------------------------------|------|---|------|--|------|--|------|--|------|--|----|---|--|
| 78     | 2200                | 0.152                  | 47,800                            | 0.61 | 6,560   | 1.60 |  |      |  |      |  |      |  |    |   |  |
| 85     | 2400                | 0.181                  | 52,200                            | 0.79 | 10,900  | 1.80 |  |      |  |      |  |      |  |    |   |  |
| 92     | 2600                | 0.212                  | 56,500                            | 1.00 | 14,800  | 2.05 |  |      |  |      |  |      |  |    |   |  |
| 99     | 2800                | 0.246                  | 60,800                            | 1.25 | 18,400  | 2.30 |  |      |  |      |  |      |  |    |   |  |
| 106    | 3000                | 0.283                  | 65,600                            | 1.65 | 21,900  | 2.60 | 6,480  | 4.40 |  |      |  |      |  |    |   |  |
| 113    | 3200                | 0.322                  | 69,800                            | 1.85 | 25,600  | 2.95 | 11,200   | 4.75 |  |      |  |      |  |    |   |  |
| 120    | 3400                | 0.363                  | 73,800                            | 2.25 | 29,400  | 3.35 | 15,400   | 5.1  |  |      |  |      |  |    |   |  |
| 128    | 3600                | 0.407                  | 78,400                            | 2.65 | 33,500  | 3.75 | 19,300   | 5.6  |  |      |  |      |  |    |   |  |
| 135    | 3800                | 0.453                  | 82,800                            | 3.15 | 37,200  | 4.2  | 22,900   | 6.1  | 11,100   | 8.2  |  |      |  |    |   |  |
| 142    | 4000                | 0.502                  | 87,100                            | 3.65 | 41,500  | 4.7  | 26,700   | 6.7  | 15,500   | 8.8  |  |      |  |    |   |  |
| 149    | 4200                | 0.554                  | 91,600                            | 4.20 | 45,400  | 5.2  | 30,200   | 7.2  | 19,800   | 9.5  |  |      |  |    |   |  |
| 156    | 4400                | 0.608                  | 95,400                            | 4.85 | 50,100  | 5.8  | 33,800   | 7.9  | 23,600   | 10.0 | 7,760  | 12.0 |  |    |   |  |
|        |                     |                        |                                   |      |   |      |  |      | 12,900   | 12.5 |  |      |  |    |   |  |
| 163    | 4600                | 0.665                  | 100,000                           | 5.5  |   |      | 37,800   | 8.7  | 26,900   | 11.0 | 17,800   | 14.0 |  |    |   |  |
| 170    | 4800                | 0.724                  | 105,000                           | 6.3  |   |      | 41,600   | 9.4  | 30,800   | 12.0 | 21,700   | 14.5 |  |    |   |  |
| 177    | 5000                | 0.785                  | 109,000                           | 7.1  |   |      | 45,200   | 10.0 | 34,400   | 12.5 | 25,800   | 15.5 |  |    |   |  |
| 186    | 5250                | 0.865                  | 115,000                           | 8.2  |   |      | 50,200   | 11.0 | 39,000   | 14.0 | 30,400   | 16.5 |  |    |   |  |
|        |                     |                        |                                   |      |   |      |  |      |  |      | 12,400   | 22.5 |  |    |   |  |
| 195    | 5500                | 0.95                   | 120,000                           | 9.5  |   |      | 54,900   | 12.5 | 43,700   | 15.0 | 35,000   | 18.0 | 18,600   | 24 |   |  |
| 204    | 5750                | 1.04                   | 125,000                           | 11.0 |   |      | 60,600   | 14.0 | 48,300   | 16.5 | 39,500   | 19.5 | 24,200   | 26 |   |  |
| 213    | 6000                | 1.13                   | 131,000                           | 12.5 |   |      | 66,500   | 15.5 | 53,000   | 18   | 43,900   | 21.0 | 29,000   | 27 |   |  |
| 222    | 6250                | 1.23                   | 136,000                           | 14.0 |   |      | 72,000   | 17.0 | 58,100   | 20   | 48,400   | 22.5 | 33,800   | 29 | 13,000  |  |
|        |                     |                        |                                   |      |   |      |  |      |  |      |  |      |  |    | 19,100  |  |
| 230    | 6500                | 1.33                   | 141,000                           | 15.5 |   |      | 77,300   | 18.5 | 62,800   | 21   | 53,300   | 24.5 | 38,000   | 31 | 24,800  |  |
| 239    | 6750                | 1.43                   | 147,000                           | 17.5 |   |      |  |      | 67,500   | 23   | 58,000   | 26.0 | 42,900   | 33 | 30,100  |  |
| 248    | 7000                | 1.54                   | 152,000                           | 19.5 |   |      |  |      | 73,200   | 25   | 62,800   | 28   | 47,300   | 35 | 34,800  |  |
|        |                     |                        |                                   |      |   |      |  |      |  |      |  |      |  |    |   |  |
|        |                     |                        |                                   |      |   |      |  |      |  |      |  |      |  |    |   |  |
|        |                     |                        |                                   |      |   |      |  |      |  |      |  |      |  |    |   |  |
|        |                     |                        |                                   |      |   |      |  |      |  |      |  |      |  |    |   |  |
|        |                     |                        |                                   |      |   |      |  |      |  |      |  |      |  |    |   |  |
|        |                     |                        |                                   |      |   |      |  |      |  |      |  |      |  |    |   |  |
|        |                     |                        |                                   |      |   |      |  |      |  |      |  |      |  |    |   |  |
|        |                     |                        |                                   |      |   |      |  |      |  |      |  |      |  |    |   |  |
|        |                     |                        |                                   |      |   |      |  |      |  |      |  |      |  |    |   |  |
|        |                     |                        |                                   |      |   |      |  |      |  |      |  |      |  |    |   |  |
|        |                     |                        |                                   |      |   |      |  |      |  |      |  |      |  |    |   |  |
|        |                     |                        |                                   |      |   |      |  |      |  |      |  |      |  |    |   |  |
|        |                     |                        |                                   |      |   |      |  |      |  |      |  |      |  |    |   |  |
|        |                     |                        |                                   |      |   |      |  |      |  |      |  |      |  |    |   |  |
|        |                     |                        |                                   |      |   |      |  |      |  |      |  |      |  |    |   |  |
|        |                     |                        |                                   |      |   |      |  |      |  |      |  |      |  |    |   |  |
|        |                     |                        |                                   |      |   |      |  |      |  |      |  |      |  |    |   |  |
|        |                     |                        |                                   |      |   |      |  |      |  |      |  |      |  |    |   |  |
|        |                     |                        |                                   |      |   |      |  |      |  |      |  |      |  |    |   |  |
|        |                     |                        |                                   |      |   |      |  |      |  |      |  |      |  |    |   |  |
|        |                     |                        |                                   |      |   |      |  |      |  |      |  |      |  |    |   |  |
|        |                     |                        |                                   |      |   |      |  |      |  |      |  |      |  |    |   |  |
|        |                     |                        |                                   |      |   |      |  |      |  |      |  |      |  |    |   |  |
|        |                     |                        |                                   |      |   |      |  |      |  |      |  |      |  |    |   |  |
|        |                     |                        |                                   |      |   |      |  |      |  |      |  |      |  |    |   |  |
|        |                     |                        |                                   |      |   |      |  |      |  |      |  |      |  |    |   |  |
|        |                     |                        |                                   |      |   |      |  |      |  |      |  |      |  |    |   |  |
|        |                     |                        |                                   |      |   |      |  |      |  |      |  |      |  |    |   |  |
|        |                     |                        |                                   |      |   |      |  |      |  |      |  |      |  |    |   |  |
|        |                     |                        |                                   |      |   |      |  |      |  |      |  |      |  |    |   |  |
|        |                     |                        |                                   |      |   |      |  |      |  |      |  |      |  |    |   |  |
|        |                     |                        |                                   |      |   |      |  |      |  |      |  |      |  |    |   |  |
|        |                     |                        |                                   |      |   |      |  |      |  |      |  |      |  |    |   |  |
|        |                     |                        |                                   |      |   |      |  |      |  |      |  |      |  |    |   |  |
|        |                     |                        |                                   |      |   |      |  |      |  |      |  |      |  |    |   |  |
|        |                     |                        |                                   |      |   |      |  |      |  |      |  |      |  |    |   |  |
|        |                     |                        |                                   |      |   |      |  |      |  |      |  |      |  |    |   |  |
|        |                     |                        |                                   |      |   |      |  |      |  |      |  |      |  |    |   |  |
|        |                     |                        |                                   |      |   |      |  |      |  |      |  |      |  |    |   |  |
|        |                     |                        |                                   |      |   |      |  |      |  |      |  |      |  |    |   |  |

# 120" Sturtevant-Davidson Propeller Fan

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Room Resistances.  
 Volumes Measured by Anemometer Through Rectangular Opening in Wall. Co-efficient .82

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.                  | H. P. | Volume C.F.M.                                      | H. P. | Volume C.F.M.                                     | H. P. | Volume C.F.M.                                     | H. P. | Volume C.F.M.                                     | H. P. | Volume C.F.M.                                     | H. P. | Volume C.F.M.                                   | H. P. |
|--------|------------------|------------------|--------------------------------|-------|--|-------|---|-------|---|-------|---|-------|---|-------|---|-------|
|        |                  |                  | Static Pressure Free Discharge |       | Static Pressure 1/2" Water .0722 oss. per sq. inch |       | Static Pressure 1/4" Water .145 oss. per sq. inch |       | Static Pressure 1/8" Water .217 oss. per sq. inch |       | Static Pressure 1/4" Water .289 oss. per sq. inch |       | Static Pressure 1/2" Water .434 oss. per sq. inch |       | Static Pressure 1" Water .578 oss. per sq. inch |       |
| 70     | 2200             | 0.152            | 59,100                         | 0.75  | 8,090  | 1.95  |   |       |   |       |   |       |   |       |   |       |
| 76     | 2400             | 0.181            | 64,500                         | 0.97  | 9,200  | 2.25  |   |       |   |       |   |       |   |       |   |       |
| 83     | 2600             | 0.212            | 69,700                         | 1.25  | 18,200   | 2.50  |   |       |   |       |   |       |   |       |   |       |
| 80     | 2800             | 0.246            | 75,200                         | 1.55  | 22,700   | 2.90  |   |       |   |       |   |       |   |       |   |       |
| 96     | 3000             | 0.283            | 81,000                         | 2.00  | 27,100   | 3.20  | 8,020   | 5.5   |   |       |   |       |   |       |   |       |
| 102    | 3200             | 0.322            | 86,000                         | 2.30  | 31,600   | 3.65  | 13,800  | 5.8   |   |       |   |       |   |       |   |       |
| 108    | 3400             | 0.362            | 91,100                         | 2.75  | 36,400   | 4.15  | 19,000  | 6.3   |   |       |   |       |   |       |   |       |
| 115    | 3600             | 0.407            | 96,500                         | 3.30  | 41,300   | 4.61  | 23,800  | 6.9   |   |       |   |       |   |       |   |       |
| 121    | 3800             | 0.453            | 102,000                        | 3.85  | 45,900   | 5.2   | 28,300  | 7.5   | 13,800  | 10.0  |   |       |   |       |   |       |
| 127    | 4000             | 0.502            | 108,000                        | 4.50  | 51,200   | 5.8   | 33,000  | 8.3   | 19,200  | 11.0  |   |       |   |       |   |       |
| 134    | 4200             | 0.554            | 113,000                        | 5.2   | 56,100   | 6.4   | 37,300  | 8.9   | 24,400  | 11.5  | 9,580   | 15.0  |   |       |   |       |
| 140    | 4400             | 0.608            | 118,000                        | 6.0   | 61,800   | 7.2   | 41,800  | 9.7   | 29,100  | 12.5  | 16,000  | 15.5  |   |       |   |       |
| 146    | 4600             | 0.665            | 124,000                        | 6.8   |  |       | 46,800  | 11.0  | 33,200  | 13.5  | 22,000  | 17.0  |   |       |   |       |
| 153    | 4800             | 0.724            | 129,000                        | 7.8   |  |       | 51,200  | 11.5  | 38,000  | 14.5  | 26,800  | 18.0  |   |       |   |       |
| 159    | 5000             | 0.785            | 135,000                        | 8.8   |  |       | 55,700  | 12.5  | 42,400  | 15.5  | 31,800  | 19.0  |   |       |   |       |
| 167    | 5250             | 0.867            | 142,000                        | 10.0  |  |       | 61,800  | 14.0  | 48,200  | 17.0  | 37,600  | 21.0  | 15,300  | 28    |   |       |
| 175    | 5500             | 0.95             | 148,000                        | 11.5  |  |       | 67,800  | 15.5  | 54,000  | 18.5  | 43,200  | 22.5  | 22,900  | 30    |   |       |
| 183    | 5750             | 1.04             | 155,000                        | 13.5  |  |       | 74,800  | 17    | 59,600  | 20.0  | 48,700  | 24    | 29,900  | 32    |   |       |
| 191    | 6000             | 1.13             | 161,000                        | 15.0  |  |       | 82,100  | 19    | 65,500  | 22.0  | 54,200  | 26    | 35,800  | 34    | 16,000  | 44    |
| 199    | 6250             | 1.23             | 168,000                        | 17.0  |  |       | 89,000  | 21    | 71,700  | 24.5  | 59,800  | 28    | 41,700  | 36    | 23,600  | 45    |
| 207    | 6500             | 1.33             | 174,000                        | 19.5  |  |       | 95,500  | 23    | 77,600  | 26    | 65,800  | 30    | 47,000  | 38    | 30,700  | 48    |
| 215    | 6750             | 1.43             | 182,000                        | 21.5  |  |       |   |       | 83,300  | 28    | 71,500  | 32    | 53,000  | 41    | 37,100  | 50    |
| 223    | 7000             | 1.54             | 188,000                        | 24    |  |       |   |       | 90,300  | 31    | 77,500  | 35    | 58,300  | 43    | 42,900  | 52    |

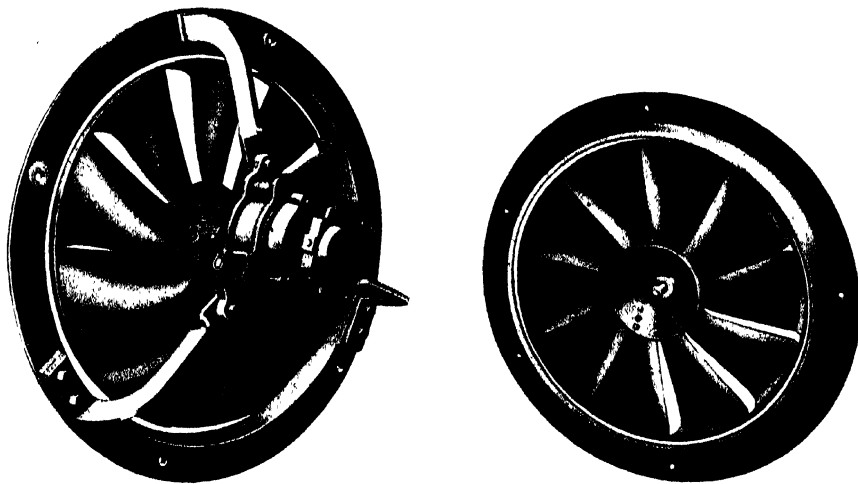


# **STURTEVANT TRACTRIX FANS**

**Dimensions, Capacities, Horse Powers**



## Sturtevant Tractrix Fans



Sturtevant Tractrix Fans

# **STURTEVANT TRACTRIX FAN**

## **SPECIFICATIONS**

There shall be furnished a Sturtevant No. ....Tractrix Fan, the total length in the direction of the shaft being.....inches, and the total overall diameter.....inches.

The fan shall have a capacity of.....cubic feet per minute and shall operate at approximately.....R.P.M. requiring approximately .....B.H.P.

The electric motor shall be built to operate on.....current,.....volts,.....cycles, .....phase.

## **Tractrix Fan**

### **EXPLANATION OF TABLES**

These fans are not usually applied in connection with piping systems because they are not efficient where a large component of the pressure is static.

Capacities are therefore measured with fan discharging into a plenum space, the maintained resistance being the static pressure in that space.



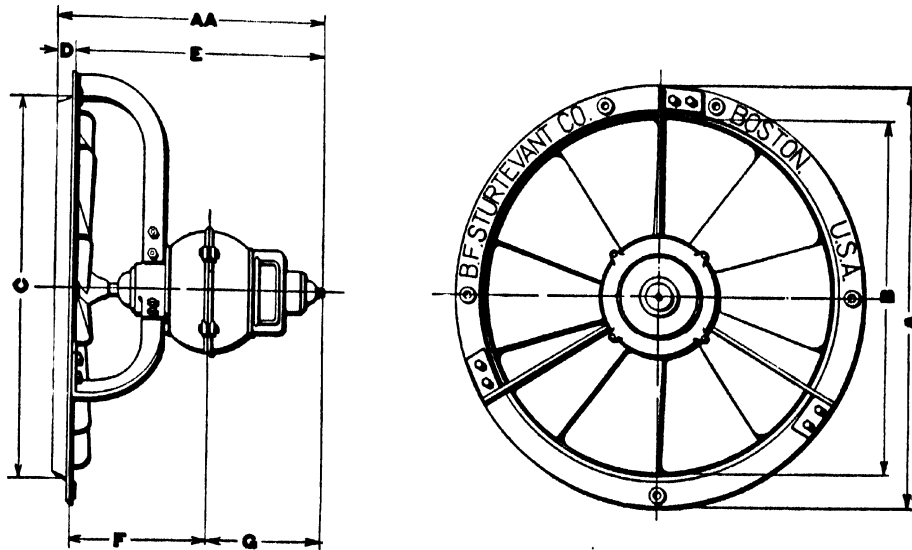
## Tractrix Fan

### APPROXIMATE WEIGHTS

| Size | Direct Current | Alternating Current |            |
|------|----------------|---------------------|------------|
|      |                | Single Phase        | Poly-Phase |
| 1    | 65             | 55                  | 55         |
| 2    | 70             | 60                  | 60         |
| 3    | 75             | 65                  | 65         |
| 4    | 100            | 90                  | 90         |
| 5    | 160            | 130                 | 130        |
| 6    | 200            | 205                 | 205        |
| 7    | 360            | 310                 | 290        |
| 8    | 450            | 420                 | 390        |
| 9    | 650            | 525                 | 460        |
| 10   | 700            | 690                 | 620        |
| 11   | 900            | 885                 | 850        |

# Sturtevant Tractrix Fan

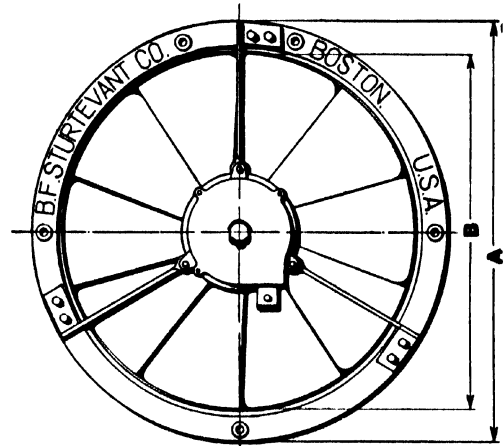
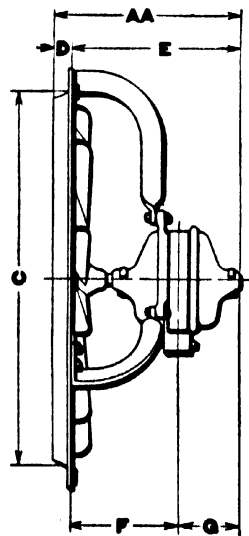
Sturtevant Direct Current Motor



| Fan Size | A   | B   | C   | D  | E    | F    | G   | AA   | Shaft Diameter | Anchor Bolts |
|----------|-----|-----|-----|----|------|------|-----|------|----------------|--------------|
| 1        | 16½ | 11  | 12½ | 1  | 8 ⅞  | 4 ⅞  | 3 ⅞ | 9 ⅞  | ¾              | 2            |
| 2        | 18½ | 12½ | 14½ | 1  | 8 ⅞  | 5 ⅞  | 3 ⅞ | 9 ⅞  | ¾              | 2            |
| 3        | 20½ | 14½ | 16½ | 1½ | 8 ⅞  | 5 ⅞  | 3 ⅞ | 10 ⅞ | ¾              | 2            |
| 4        | 23  | 16½ | 18  | 1½ | 9 ⅞  | 5 ⅞  | 3 ⅞ | 10 ⅞ | ¾              | 2            |
| 5        | 25½ | 19½ | 21  | 1½ | 9 ⅞  | 5 ⅞  | 4   | 11   | ¾              | 2            |
| 6        | 28½ | 21½ | 23½ | 1½ | 16 ⅞ | 9 ⅞  | 7 ⅞ | 17 ⅞ | ¾              | 2            |
| 7        | 34½ | 27½ | 29½ | 1½ | 19   | 10 ⅞ | 8 ⅞ | 20 ⅞ | ¾              | 2            |
| 8        | 40½ | 32½ | 34½ | 1½ | 19   | 10 ⅞ | 8 ⅞ | 21 ⅞ | ¾              | 2            |
| 9        | 45½ | 37½ | 40½ | 1½ | 23   | 13   | 10  | 25 ⅞ | 1              | 2            |
| 10       | 52  | 43½ | 45½ | 1½ | 28   | 15   | 13  | 30 ⅞ | 1              | 2            |
| 11       | 57½ | 48½ | 51½ | 2  | 29   | 16   | 13  | 31 ⅞ | 1              | 2            |

# Sturtevant Tractrix Fan

Alternating Current Motor



(Single Phase)

(2 and 3 Phase)

| Fan Size | A      | B      | C      | D     | E      | F      | G      | AA     | Shaft Diameter | Anchor Bolts | Fan Size | A      | B      | C      | D     | E      | F      | G     | AA     | Shaft Diameter | Anchor Bolts |
|----------|--------|--------|--------|-------|--------|--------|--------|--------|----------------|--------------|----------|--------|--------|--------|-------|--------|--------|-------|--------|----------------|--------------|
| 1        | 16 1/2 | 11     | 12 1/2 | 1     | 8 1/2  | 4 1/2  | 3 1/2  | 9 1/2  | 3/8            | 3/8"         | 1        | 16 1/2 | 11     | 12 1/2 | 1     | 8 1/2  | 4 1/2  | 3 1/2 | 9 1/2  | 3/8            | 3/8"         |
| 2        | 18 1/2 | 12 1/2 | 14 1/2 | 1 1/2 | 8 1/2  | 4 1/2  | 3 1/2  | 9 1/2  | 3/8            | 3/8"         | 2        | 18 1/2 | 12 1/2 | 14 1/2 | 1 1/2 | 8 1/2  | 4 1/2  | 3 1/2 | 9 1/2  | 3/8            | 3/8"         |
| 3        | 20 1/2 | 14 1/2 | 16 1/2 | 1 1/2 | 8 1/2  | 4 1/2  | 3 1/2  | 9 1/2  | 3/8            | 3/8"         | 3        | 20 1/2 | 14 1/2 | 16 1/2 | 1 1/2 | 8 1/2  | 4 1/2  | 3 1/2 | 9 1/2  | 3/8            | 3/8"         |
| 4        | 23 1/2 | 16 1/2 | 18 1/2 | 1 1/2 | 8 1/2  | 5 1/2  | 3 1/2  | 10 1/2 | 3/8            | 3/8"         | 4        | 23 1/2 | 16 1/2 | 18 1/2 | 1 1/2 | 8 1/2  | 5 1/2  | 3 1/2 | 10 1/2 | 3/8            | 3/8"         |
| 5        | 25 1/2 | 19 1/2 | 21 1/2 | 1 1/2 | 11 1/2 | 6 1/2  | 4 1/2  | 12 1/2 | 3/8            | 3/8"         | 5        | 25 1/2 | 19 1/2 | 21 1/2 | 1 1/2 | 10 1/2 | 6 1/2  | 4 1/2 | 12 1/2 | 3/8            | 3/8"         |
| 6        | 28 1/2 | 21 1/2 | 23 1/2 | 1 1/2 | 16 1/2 | 7 1/2  | 8 1/2  | 18 1/2 | 3/8            | 3/8"         | 6        | 28 1/2 | 21 1/2 | 23 1/2 | 1 1/2 | 12 1/2 | 7 1/2  | 4 1/2 | 13 1/2 | 3/8            | 3/8"         |
| 7        | 34 1/2 | 27 1/2 | 29 1/2 | 1 1/2 | 19 1/2 | 9 1/2  | 9 1/2  | 20 1/2 | 3/8            | 3/8"         | 7        | 34 1/2 | 27 1/2 | 29 1/2 | 1 1/2 | 15 1/2 | 9 1/2  | 6 1/2 | 16 1/2 | 3/8            | 3/8"         |
| 8        | 40 1/2 | 32 1/2 | 34 1/2 | 1 1/2 | 20 1/2 | 10 1/2 | 10 1/2 | 22 1/2 | 3/8            | 3/8"         | 8        | 40 1/2 | 32 1/2 | 34 1/2 | 1 1/2 | 15 1/2 | 9 1/2  | 6 1/2 | 17 1/2 | 3/8            | 3/8"         |
| 9        | 45 1/2 | 37 1/2 | 40 1/2 | 1 1/2 | 22 1/2 | 11 1/2 | 11 1/2 | 24 1/2 | 1              | 1"           | 9        | 45 1/2 | 37 1/2 | 40 1/2 | 1 1/2 | 19 1/2 | 11 1/2 | 7 1/2 | 21 1/2 | 1              | 1"           |
| 10       | 52 1/2 | 43 1/2 | 45 1/2 | 1 1/2 | 27 1/2 | 14 1/2 | 13 1/2 | 29 1/2 | 1 1/2          | 1 1/2"       | 10       | 52 1/2 | 43 1/2 | 45 1/2 | 1 1/2 | 21 1/2 | 13 1/2 | 8 1/2 | 23 1/2 | 1 1/2          | 1 1/2"       |
| 11       | 57 1/2 | 48 1/2 | 51 1/2 | 2     | 28 1/2 | 15 1/2 | 13 1/2 | 30 1/2 | 1 1/2          | 1 1/2"       | 11       | 57 1/2 | 48 1/2 | 51 1/2 | 2     | 23 1/2 | 14 1/2 | 8 1/2 | 25 1/2 | 1 1/2          | 1 1/2"       |

## No. 1 Tractrix Fan

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances.

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.                  | H. P.  | Volume C.F.M.                                     | H. P. | Volume C.F.M.                                     | H. P. | Volume C.F.M.                                   | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. |
|--------|------------------|------------------|--------------------------------|--------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|
|        |                  |                  | Static Pressure Free Discharge |        | Static Pressure 1/2" Water .072 ozs. per sq. inch |       | Static Pressure 3/4" Water .145 ozs. per sq. inch |       | Static Pressure 1" Water .217 ozs. per sq. inch |       | Static Pressure 1 1/4" Water .289 ozs. per sq. inch |       | Static Pressure 1 1/2" Water .334 ozs. per sq. inch |       | Static Pressure 1 3/4" Water .378 ozs. per sq. inch |       |
| 780    | 2200             | 0 206            | 323                            | 0 0030 |   |       |   |       |   |       |   |       |   |       |   |       |
| 850    | 2400             | 0 245            | 352                            | 0 0035 |   |       |   |       |   |       |   |       |   |       |   |       |
| 922    | 2600             | 0 287            | 382                            | 0 0045 | 85  | 0 010 |   |       |   |       |   |       |   |       |   |       |
| 993    | 2800             | 0 333            | 410                            | 0 0060 | 132   | 0 011 |   |       |   |       |   |       |   |       |   |       |
| 1065   | 3000             | 0 382            | 440                            | 0 0070 | 180   | 0 012 |   |       |   |       |   |       |   |       |   |       |
| 1135   | 3200             | 0 435            | 470                            | 0 0085 | 222   | 0 013 |   |       |   |       |   |       |   |       |   |       |
| 1205   | 3400             | 0 491            | 499                            | 0 010  | 262   | 0 014 |   |       |   |       |   |       |   |       |   |       |
| 1280   | 3600             | 0 551            | 528                            | 0 012  | 304   | 0 015 | 102   | 0 028 |   |       |   |       |   |       |   |       |
| 1350   | 3800             | 0 614            | 558                            | 0 014  | 345   | 0 017 | 151   | 0 029 |   |       |   |       |   |       |   |       |
| 1420   | 4000             | 0 680            | 586                            | 0 017  | 383   | 0 019 | 197   | 0 031 |   |       |   |       |   |       |   |       |
| 1490   | 4200             | 0 750            | 616                            | 0 020  | 426   | 0 021 | 244   | 0 032 |   |       |   |       |   |       |   |       |
| 1560   | 4400             | 0 822            | 646                            | 0 022  | 475   | 0 024 | 288   | 0 034 | 125   | 0 052 |   |       |   |       |   |       |
| 1630   | 4600             | 0 899            | 675                            | 0 026  | 513   | 0 027 | 328   | 0 036 | 168   | 0 054 |   |       |   |       |   |       |
| 1700   | 4800             | 0 980            | 706                            | 0 029  | 550   | 0 030 | 369   | 0 038 | 221   | 0 056 |   |       |   |       |   |       |
| 1770   | 5000             | 1 06             | 735                            | 0 033  | 589   | 0 033 | 410   | 0 041 | 265   | 0 058 | 120   | 0 079 |   |       |   |       |
| 1860   | 5250             | 1 17             | 772                            | 0 038  | 636   | 0 038 | 463   | 0 046 | 317   | 0 060 | 182   | 0 081 |   |       |   |       |
| 1950   | 5500             | 1 29             | 807                            | 0 044  | 683   | 0 044 | 514   | 0 050 | 374   | 0 063 | 243   | 0 085 |   |       |   |       |
| 2040   | 5750             | 1 40             | 844                            | 0 050  | 724   | 0 050 | 567   | 0 055 | 428   | 0 067 | 301   | 0 089 |   |       |   |       |
| 2130   | 6000             | 1 53             | 881                            | 0 057  | 768   | 0 058 | 621   | 0 062 | 480   | 0 073 | 359   | 0 093 |   |       |   |       |
| 2220   | 6250             | 1 66             | 917                            | 0 064  | 808   | 0 064 | 673   | 0 068 | 527   | 0 079 | 410   | 0 096 | 182   | 0 145 |   |       |
| 2300   | 6500             | 1 79             | 955                            | 0 073  |   |       | 724   | 0 076 | 578   | 0 085 | 463   | 0 100 | 237   | 0 150 |   |       |
| 2400   | 6750             | 1 94             | 991                            | 0 081  |   |       | 775   | 0 084 | 625   | 0 092 | 518   | 0 105 | 298   | 0 155 |   |       |
| 2480   | 7000             | 2 08             | 1030                           | 0 090  |   |       | 815   | 0 093 | 673   | 0 100 | 568   | 0 115 | 357   | 0 160 | 150   | 0 22  |

## No. 2 Tractrix Fan

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances.

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.                  | H. P.  | Volume C.F.M.                                     | H. P. | Volume C.F.M.                                     | H. P. | Volume C.F.M.                                   | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. | Volume C.F.M.                                       | H. P. |
|--------|------------------|------------------|--------------------------------|--------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|
|        |                  |                  | Static Pressure Free Discharge |        | Static Pressure 1/2" Water .072 ozs. per sq. inch |       | Static Pressure 3/4" Water .145 ozs. per sq. inch |       | Static Pressure 1" Water .217 ozs. per sq. inch |       | Static Pressure 1 1/4" Water .289 ozs. per sq. inch |       | Static Pressure 1 1/2" Water .334 ozs. per sq. inch |       | Static Pressure 1 3/4" Water .378 ozs. per sq. inch |       |
| 670    | 2200             | 0 206            | 437                            | 0 0040 |   |       |   |       |   |       |   |       |   |       |   |       |
| 732    | 2400             | 0 245            | 476                            | 0 0050 |   |       |   |       |   |       |   |       |   |       |   |       |
| 792    | 2600             | 0 287            | 515                            | 0 0065 | 115   | 0 013 |   |       |   |       |   |       |   |       |   |       |
| 854    | 2800             | 0 333            | 554                            | 0 0080 | 179   | 5 015 |   |       |   |       |   |       |   |       |   |       |
| 915    | 3000             | 0 382            | 594                            | 0 0095 | 242   | 0 016 |   |       |   |       |   |       |   |       |   |       |
| 975    | 3200             | 0 435            | 633                            | 0 012  | 300   | 0 017 |   |       |   |       |   |       |   |       |   |       |
| 1040   | 3400             | 0 491            | 673                            | 0 014  | 353   | 0 018 |   |       |   |       |   |       |   |       |   |       |
| 1100   | 3600             | 0 551            | 713                            | 0 017  | 410   | 0 020 | 138   | 0 038 |   |       |   |       |   |       |   |       |
| 1160   | 3800             | 0 614            | 752                            | 0 020  | 465   | 0 023 | 204   | 0 040 |   |       |   |       |   |       |   |       |
| 1220   | 4000             | 0 680            | 793                            | 0 023  | 517   | 0 025 | 266   | 0 042 |   |       |   |       |   |       |   |       |
| 1280   | 4200             | 0 750            | 831                            | 0 026  | 575   | 0 029 | 329   | 0 044 |   |       |   |       |   |       |   |       |
| 1340   | 4400             | 0 822            | 872                            | 0 030  | 640   | 0 032 | 389   | 0 046 | 168   | 0 070 |   |       |   |       |   |       |
| 1400   | 4600             | 0 899            | 910                            | 0 035  | 692   | 0 036 | 443   | 0 048 | 227   | 0 072 |   |       |   |       |   |       |
| 1460   | 4800             | 0 980            | 952                            | 0 039  | 743   | 0 040 | 498   | 0 051 | 290   | 0 075 |   |       |   |       |   |       |
| 1530   | 5000             | 1 06             | 990                            | 0 045  | 795   | 0 045 | 553   | 0 055 | 357   | 0 078 | 161   | 0 105 |   |       |   |       |
| 1600   | 5250             | 1 17             | 1040                           | 0 051  | 857   | 0 051 | 624   | 0 062 | 428   | 0 081 | 246   | 0 110 |   |       |   |       |
| 1680   | 5500             | 1 29             | 1090                           | 0 059  | 922   | 0 060 | 695   | 0 067 | 504   | 0 085 | 327   | 0 115 |   |       |   |       |
| 1750   | 5750             | 1 40             | 1140                           | 0 068  | 978   | 0 068 | 765   | 0 074 | 577   | 0 091 | 407   | 0 120 |   |       |   |       |
| 1830   | 6000             | 1 53             | 1190                           | 0 077  | 1030  | 5 078 | 838   | 0 083 | 648   | 0 099 | 485   | 0 125 |   |       |   |       |
| 1910   | 6250             | 1 66             | 1240                           | 0 086  | 1090  | 0 087 | 910   | 0 092 | 712   | 0 105 | 553   | 0 130 | 245   | 0 200 |   |       |
| 1980   | 6500             | 1 79             | 1290                           | 0 098  |   |       | 978   | 0 100 | 780   | 0 115 | 625   | 0 140 | 320   | 0 205 |   |       |
| 2060   | 6750             | 1 94             | 1340                           | 0 11   |   |       | 1050  | 0 115 | 845   | 0 125 | 699   | 0 145 | 402   | 0 210 |   |       |
| 2140   | 7000             | 2 08             | 1390                           | 0 12   |   |       | 1100  | 0 125 | 910   | 0 135 | 768   | 0 155 | 482   | 0 215 | 202   | 0 30  |

## No. 3 Tractrix Fan

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances.

| R.P.M. | Tip Speed<br>F.P.M. | S.N.D.<br>in<br>inches | Volume<br>C.F.M.                  | H. P.  | Volume<br>C.F.M.   | H. P. | Volume<br>C.F.M.   | H. P. | Volume<br>C.F.M.   | H. P. | Volume<br>C.F.M.   | H. P. | Volume<br>C.F.M.   | H. P. | Volume<br>C.F.M.   | H. P. |
|--------|---------------------|------------------------|-----------------------------------|--------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|
|        |                     |                        | Static Pressure<br>Free Discharge |        | Static Pressure<br>¾" Water<br>.072 ozs. per<br>sq. inch |       | Static Pressure<br>¾" Water<br>.145 ozs. per<br>sq. inch |       | Static Pressure<br>¾" Water<br>.217 ozs. per<br>sq. inch |       | Static Pressure<br>¾" Water<br>.289 ozs. per<br>sq. inch |       | Static Pressure<br>¾" Water<br>.434 ozs. per<br>sq. inch |       | Static Pressure<br>1" Water<br>.578 ozs. per<br>sq. inch |       |
| 590    | 2200                | 0.206                  | 570                               | 0.0050 |  |       |  |       |  |       |  |       |  |       |  |       |
| 644    | 2400                | 0.245                  | 621                               | 0.0065 |  |       |  |       |  |       |  |       |  |       |  |       |
| 697    | 2600                | 0.287                  | 673                               | 0.008  | 150  | 0.018 |  |       |  |       |  |       |  |       |  |       |
| 750    | 2800                | 0.333                  | 724                               | 0.010  | 233  | 0.019 |  |       |  |       |  |       |  |       |  |       |
| 805    | 3000                | 0.382                  | 775                               | 0.013  | 317  | 0.020 |  |       |  |       |  |       |  |       |  |       |
| 857    | 3200                | 0.435                  | 827                               | 0.015  | 391  | 0.022 |  |       |  |       |  |       |  |       |  |       |
| 911    | 3400                | 0.491                  | 879                               | 0.018  | 461  | 0.024 |  |       |  |       |  |       |  |       |  |       |
| 965    | 3600                | 0.551                  | 930                               | 0.022  | 534  | 0.027 | 180  | 0.050 |  |       |  |       |  |       |  |       |
| 1020   | 3800                | 0.614                  | 982                               | 0.025  | 608  | 0.030 | 265  | 0.052 |  |       |  |       |  |       |  |       |
| 1072   | 4000                | 0.680                  | 1,040                             | 0.030  | 675  | 0.033 | 346  | 0.055 |  |       |  |       |  |       |  |       |
| 1125   | 4200                | 0.750                  | 1,090                             | 0.034  | 750  | 0.037 | 430  | 0.057 |  |       |  |       |  |       |  |       |
| 1180   | 4400                | 0.822                  | 1,140                             | 0.040  | 835  | 0.042 | 508  | 0.060 | 220  | 0.092 |  |       |  |       |  |       |
| 1230   | 4600                | 0.899                  | 1,190                             | 0.045  | 903  | 0.047 | 577  | 0.063 | 297  | 0.094 |  |       |  |       |  |       |
| 1288   | 4800                | 0.980                  | 1,240                             | 0.051  | 970  | 0.052 | 650  | 0.067 | 390  | 0.098 |  |       |  |       |  |       |
| 1340   | 5000                | 1.06                   | 1,290                             | 0.058  | 1,040  | 0.059 | 722  | 0.072 | 467  | 0.100 | 211  | 0.140 |  |       |  |       |
| 1410   | 5250                | 1.17                   | 1,360                             | 0.067  | 1,120  | 0.067 | 815  | 0.081 | 558  | 0.105 | 321  | 0.145 |  |       |  |       |
| 1470   | 5500                | 1.29                   | 1,420                             | 0.077  | 1,200  | 0.078 | 907  | 0.088 | 659  | 0.110 | 428  | 0.150 |  |       |  |       |
| 1540   | 5750                | 1.40                   | 1,490                             | 0.088  | 1,280  | 0.088 | 1,000  | 0.097 | 752  | 0.120 | 532  | 0.155 |  |       |  |       |
| 1610   | 6000                | 1.53                   | 1,550                             | 0.100  | 1,350  | 0.105 | 1,090  | 0.110 | 846  | 0.130 | 633  | 0.165 |  |       |  |       |
| 1675   | 6250                | 1.66                   | 1,620                             | 0.110  | 1,420  | 0.115 | 1,190  | 0.120 | 929  | 0.140 | 722  | 0.170 | 319  | 0.200 |  |       |
| 1742   | 6500                | 1.79                   | 1,680                             | 0.130  |  |       | 1,280  | 0.135 | 1,020  | 0.150 | 817  | 0.180 | 419  | 0.265 |  |       |
| 1810   | 6750                | 1.94                   | 1,750                             | 0.145  |  |       | 1,370  | 0.150 | 1,100  | 0.160 | 913  | 0.190 | 523  | 0.275 |  |       |
| 1875   | 7000                | 2.08                   | 1,810                             | 0.160  |  |       | 1,440  | 0.165 | 1,190  | 0.175 | 1,000  | 0.200 | 630  | 0.285 | 264  | 0.39  |

## No. 4 Tractrix Fan

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances.

| R.P.M. | Tip Speed<br>F.P.M. | S.N.D.<br>in<br>inches | Volume<br>C.F.M.                  | H. P. | Volume<br>C.F.M.   | H. P. | Volume<br>C.F.M.   | H. P. | Volume<br>C.F.M.   | H. P. | Volume<br>C.F.M.   | H. P. | Volume<br>C.F.M.   | H. P. | Volume<br>C.F.M.   | H. P. |
|--------|---------------------|------------------------|-----------------------------------|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|
|        |                     |                        | Static Pressure<br>Free Discharge |       | Static Pressure<br>¾" Water<br>.072 ozs. per<br>sq. inch |       | Static Pressure<br>¾" Water<br>.145 ozs. per<br>sq. inch |       | Static Pressure<br>¾" Water<br>.217 ozs. per<br>sq. inch |       | Static Pressure<br>¾" Water<br>.289 ozs. per<br>sq. inch |       | Static Pressure<br>¾" Water<br>.434 ozs. per<br>sq. inch |       | Static Pressure<br>1" Water<br>.578 ozs. per<br>sq. inch |       |
| 525    | 2200                | 0.206                  | 718                               | 0.006 |  |       |  |       |  |       |  |       |  |       |  |       |
| 573    | 2400                | 0.245                  | 784                               | 0.008 |  |       |  |       |  |       |  |       |  |       |  |       |
| 620    | 2600                | 0.287                  | 849                               | 0.010 | 189  | 0.022 |  |       |  |       |  |       |  |       |  |       |
| 669    | 2800                | 0.333                  | 913                               | 0.013 | 294  | 0.024 |  |       |  |       |  |       |  |       |  |       |
| 715    | 3000                | 0.382                  | 978                               | 0.016 | 399  | 0.026 |  |       |  |       |  |       |  |       |  |       |
| 763    | 3200                | 0.435                  | 1,040                             | 0.019 | 493  | 0.027 |  |       |  |       |  |       |  |       |  |       |
| 811    | 3400                | 0.491                  | 1,110                             | 0.023 | 582  | 0.030 |  |       |  |       |  |       |  |       |  |       |
| 860    | 3600                | 0.551                  | 1,180                             | 0.027 | 675  | 0.034 | 227  | 0.063 |  |       |  |       |  |       |  |       |
| 906    | 3800                | 0.614                  | 1,240                             | 0.032 | 766  | 0.038 | 335  | 0.065 |  |       |  |       |  |       |  |       |
| 955    | 4000                | 0.680                  | 1,310                             | 0.038 | 852  | 0.042 | 437  | 0.069 |  |       |  |       |  |       |  |       |
| 1001   | 4200                | 0.750                  | 1,370                             | 0.043 | 947  | 0.047 | 542  | 0.072 |  |       |  |       |  |       |  |       |
| 1050   | 4400                | 0.822                  | 1,440                             | 0.050 | 1,050  | 0.053 | 641  | 0.075 | 278  | 0.115 |  |       |  |       |  |       |
| 1099   | 4600                | 0.899                  | 1,500                             | 0.057 | 1,140  | 0.059 | 729  | 0.079 | 374  | 0.120 |  |       |  |       |  |       |
| 1145   | 4800                | 0.980                  | 1,570                             | 0.065 | 1,220  | 0.066 | 819  | 0.085 | 491  | 0.125 |  |       |  |       |  |       |
| 1192   | 5000                | 1.06                   | 1,630                             | 0.073 | 1,310  | 0.074 | 910  | 0.091 | 588  | 0.130 | 266  | 0.175 |  |       |  |       |
| 1251   | 5250                | 1.17                   | 1,720                             | 0.085 | 1,410  | 0.085 | 1,030  | 0.100 | 705  | 0.135 | 404  | 0.180 |  |       |  |       |
| 1311   | 5500                | 1.29                   | 1,800                             | 0.098 | 1,520  | 0.098 | 1,140  | 0.110 | 831  | 0.140 | 539  | 0.190 |  |       |  |       |
| 1371   | 5750                | 1.40                   | 1,880                             | 0.110 | 1,610  | 0.110 | 1,260  | 0.120 | 950  | 0.150 | 670  | 0.195 |  |       |  |       |
| 1431   | 6000                | 1.53                   | 1,960                             | 0.125 | 1,710  | 0.130 | 1,380  | 0.135 | 1,070  | 0.160 | 798  | 0.205 |  |       |  |       |
| 1490   | 6250                | 1.66                   | 2,040                             | 0.14  | 1,800  | 0.145 | 1,500  | 0.150 | 1,170  | 0.175 | 910  | 0.215 | 403  | 0.330 |  |       |
| 1550   | 6500                | 1.79                   | 2,120                             | 0.16  |  |       | 1,610  | 0.170 | 1,290  | 0.190 | 1,030  | 0.225 | 528  | 0.335 |  |       |
| 1610   | 6750                | 1.94                   | 2,200                             | 0.18  |  |       | 1,720  | 0.185 | 1,390  | 0.205 | 1,150  | 0.240 | 661  | 0.345 |  |       |
| 1670   | 7000                | 2.08                   | 2,290                             | 0.2   |  |       | 1,810  | 0.205 | 1,500  | 0.220 | 1,260  | 0.255 | 795  | 0.360 | 333  | 0.49  |

## No. 5 Tractrix Fan

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances.

| R.P.M. | Tip Speed<br>F.P.M. | S.N.D.<br>in<br>inches | Volume                            | H. P.  | Volume   | H. P.  | Volume   | H. P.  | Volume   | H. P.  | Volume | H. P. | Volume | H. P. | Volume | H. P. |
|--------|---------------------|------------------------|-----------------------------------|--|--|--|--|--|--|--|--------|-------|--------|-------|--------|-------|
|        |                     |                        | C.F.M.                            |  | C.F.M.   |  | C.F.M.   |  | C.F.M.   |  | C.F.M. |       | C.F.M. |       | C.F.M. |       |
|        |                     |                        | Static Pressure<br>Free Discharge | Static Pressure<br>¾" Water<br>.072 ozs. per<br>sq. inch | Static Pressure<br>¾" Water<br>.145 ozs. per<br>sq. inch | Static Pressure<br>¾" Water<br>.217 ozs. per<br>sq. inch | Static Pressure<br>¾" Water<br>.289 ozs. per<br>sq. inch | Static Pressure<br>¾" Water<br>.361 ozs. per<br>sq. inch | Static Pressure<br>¾" Water<br>.434 ozs. per<br>sq. inch | Static Pressure<br>1" Water<br>.578 ozs. per<br>sq. inch |        |       |        |       |        |       |
| 447    | 2200                | 0.206                  | 985                               | 0.0085   |  |  |  |  |  |  |        |       |        |       |        |       |
| 488    | 2400                | 0.245                  | 1,080                             | 0.011  |  |  |  |  |  |  |        |       |        |       |        |       |
| 529    | 2600                | 0.287                  | 1,170                             | 0.014  | 260  | 0.030  |  |  |  |  |        |       |        |       |        |       |
| 569    | 2800                | 0.333                  | 1,250                             | 0.018  | 403  | 0.033  |  |  |  |  |        |       |        |       |        |       |
| 610    | 3000                | 0.382                  | 1,340                             | 0.022  | 548  | 0.035  |  |  |  |  |        |       |        |       |        |       |
| 650    | 3200                | 0.435                  | 1,430                             | 0.026  | 675  | 0.037  |  |  |  |  |        |       |        |       |        |       |
| 692    | 3400                | 0.491                  | 1,520                             | 0.032  | 797  | 0.041  |  |  |  |  |        |       |        |       |        |       |
| 732    | 3600                | 0.551                  | 1,610                             | 0.037  | 925  | 0.046  | 311  | 0.086  |  |  |        |       |        |       |        |       |
| 772    | 3800                | 0.614                  | 1,700                             | 0.044  | 1,050  | 0.052  | 460  | 0.090  |  |  |        |       |        |       |        |       |
| 813    | 4000                | 0.680                  | 1,790                             | 0.051  | 1,170  | 0.057  | 600  | 0.095  |  |  |        |       |        |       |        |       |
| 854    | 4200                | 0.750                  | 1,880                             | 0.060  | 1,300  | 0.065  | 743  | 0.099  |  |  |        |       |        |       |        |       |
| 895    | 4400                | 0.822                  | 1,970                             | 0.068  | 1,450  | 0.073  | 878  | 0.105  | 380  | 0.160  |        |       |        |       |        |       |
| 935    | 4600                | 0.899                  | 2,060                             | 0.078  | 1,560  | 0.081  | 1,000  | 0.110  | 513  | 0.165  |        |       |        |       |        |       |
| 975    | 4800                | 0.980                  | 2,150                             | 0.089  | 1,680  | 0.091  | 1,120  | 0.115  | 673  | 0.170  |        |       |        |       |        |       |
| 1015   | 5000                | 1.06                   | 2,240                             | 0.100  | 1,800  | 0.100  | 1,250  | 0.125  | 807  | 0.175  | 365    | 0.240 |        |       |        |       |
| 1068   | 5250                | 1.17                   | 2,350                             | 0.115  | 1,940  | 0.115  | 1,410  | 0.140  | 965  | 0.185  | 555    | 0.245 |        |       |        |       |
| 1119   | 5500                | 1.29                   | 2,460                             | 0.135  | 2,080  | 0.135  | 1,570  | 0.150  | 1,140  | 0.190  | 710    | 0.260 |        |       |        |       |
| 1170   | 5750                | 1.40                   | 2,580                             | 0.155  | 2,210  | 0.155  | 1,730  | 0.170  | 1,300  | 0.205  | 920    | 0.270 |        |       |        |       |
| 1220   | 6000                | 1.53                   | 2,680                             | 0.175  | 2,310  | 0.175  | 1,890  | 0.190  | 1,460  | 0.225  | 1,100  | 0.285 |        |       |        |       |
| 1270   | 6250                | 1.66                   | 2,790                             | 0.195  | 2,460  | 0.195  | 2,060  | 0.210  | 1,610  | 0.240  | 1,250  | 0.295 | 553    | 0.450 |        |       |
| 1320   | 6500                | 1.79                   | 2,910                             | 0.220  |  |  | 2,210  | 0.230  | 1,760  | 0.260  | 1,410  | 0.310 | 724    | 0.460 |        |       |
| 1370   | 6750                | 1.94                   | 3,020                             | 0.250  |  |  | 2,360  | 0.255  | 1,900  | 0.280  | 1,580  | 0.325 | 905    | 0.475 |        |       |
| 1422   | 7000                | 2.08                   | 3,140                             | 0.275  |  |  | 2,490  | 0.285  | 2,050  | 0.305  | 1,730  | 0.35  | 1,090  | 0.49  | 457    | 0.67  |

## No. 6 Tractrix Fan

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed<br>F.P.M. | S.N.D.<br>in<br>inches | Volume                            | H. P.  | Volume   | H. P.  | Volume   | H. P.  | Volume   | H. P.  | Volume | H. P. | Volume | H. P. | Volume | H. P. |
|--------|---------------------|------------------------|-----------------------------------|--|--|--|--|--|--|--|--------|-------|--------|-------|--------|-------|
|        |                     |                        | C.F.M.                            |  | C.F.M.   |  | C.F.M.   |  | C.F.M.   |  | C.F.M. |       | C.F.M. |       | C.F.M. |       |
|        |                     |                        | Static Pressure<br>Free Discharge | Static Pressure<br>¾" Water<br>.072 ozs. per<br>sq. inch | Static Pressure<br>¾" Water<br>.145 ozs. per<br>sq. inch | Static Pressure<br>¾" Water<br>.217 ozs. per<br>sq. inch | Static Pressure<br>¾" Water<br>.289 ozs. per<br>sq. inch | Static Pressure<br>¾" Water<br>.361 ozs. per<br>sq. inch | Static Pressure<br>¾" Water<br>.434 ozs. per<br>sq. inch | Static Pressure<br>1" Water<br>.578 ozs. per<br>sq. inch |        |       |        |       |        |       |
| 305    | 2200                | 0.206                  | 1,260                             | 0.011  |  |  |  |  |  |  |        |       |        |       |        |       |
| 431    | 2400                | 0.245                  | 1,380                             | 0.014  |  |  |  |  |  |  |        |       |        |       |        |       |
| 467    | 2600                | 0.287                  | 1,490                             | 0.018  | 332  | 0.039  |  |  |  |  |        |       |        |       |        |       |
| 503    | 2800                | 0.333                  | 1,600                             | 0.023  | 517  | 0.042  |  |  |  |  |        |       |        |       |        |       |
| 539    | 3000                | 0.382                  | 1,720                             | 0.028  | 701  | 0.045  |  |  |  |  |        |       |        |       |        |       |
| 574    | 3200                | 0.435                  | 1,830                             | 0.034  | 866  | 0.048  |  |  |  |  |        |       |        |       |        |       |
| 610    | 3400                | 0.491                  | 1,950                             | 0.040  | 1,020  | 0.053  |  |  |  |  |        |       |        |       |        |       |
| 646    | 3600                | 0.551                  | 2,060                             | 0.048  | 1,190  | 0.059  | 399  | 0.110  |  |  |        |       |        |       |        |       |
| 682    | 3800                | 0.614                  | 2,180                             | 0.056  | 1,350  | 0.066  | 589  | 0.115  |  |  |        |       |        |       |        |       |
| 718    | 4000                | 0.680                  | 2,290                             | 0.066  | 1,500  | 0.074  | 767  | 0.120  |  |  |        |       |        |       |        |       |
| 754    | 4200                | 0.750                  | 2,410                             | 0.076  | 1,670  | 0.083  | 952  | 0.125  |  |  |        |       |        |       |        |       |
| 790    | 4400                | 0.822                  | 2,520                             | 0.087  | 1,850  | 0.094  | 1,120  | 0.130  | 487  | 0.205  |        |       |        |       |        |       |
| 826    | 4600                | 0.899                  | 2,640                             | 0.100  | 2,000  | 0.105  | 1,280  | 0.140  | 657  | 0.210  |        |       |        |       |        |       |
| 862    | 4800                | 0.980                  | 2,760                             | 0.115  | 2,150  | 0.115  | 1,440  | 0.150  | 864  | 0.220  |        |       |        |       |        |       |
| 898    | 5000                | 1.06                   | 2,870                             | 0.130  | 2,300  | 0.130  | 1,600  | 0.160  | 1,030  | 0.225  | 468    | 0.310 |        |       |        |       |
| 942    | 5250                | 1.17                   | 3,010                             | 0.150  | 2,480  | 0.150  | 1,810  | 0.180  | 1,240  | 0.235  | 711    | 0.315 |        |       |        |       |
| 988    | 5500                | 1.29                   | 3,160                             | 0.170  | 2,670  | 0.170  | 2,010  | 0.195  | 1,460  | 0.245  | 947    | 0.330 |        |       |        |       |
| 1032   | 5750                | 1.40                   | 3,300                             | 0.195  | 2,830  | 0.195  | 2,220  | 0.215  | 1,670  | 0.260  | 1,180  | 0.345 |        |       |        |       |
| 1078   | 6000                | 1.53                   | 3,440                             | 0.220  | 3,000  | 0.225  | 2,420  | 0.240  | 1,880  | 0.285  | 1,400  | 0.365 |        |       |        |       |
| 1121   | 6250                | 1.66                   | 3,580                             | 0.250  | 3,160  | 0.250  | 2,640  | 0.265  | 2,060  | 0.305  | 1,600  | 0.375 | 709    | 0.58  |        |       |
| 1168   | 6500                | 1.79                   | 3,730                             | 0.285  |  |  | 2,830  | 0.295  | 2,260  | 0.33   | 1,810  | 0.400 | 927    | 0.59  |        |       |
| 1212   | 6750                | 1.94                   | 3,870                             | 0.320  |  |  | 3,030  | 0.325  | 2,440  | 0.36   | 2,020  | 0.415 | 1,160  | 0.61  |        |       |
| 1258   | 7000                | 2.08                   | 4,020                             | 0.355  |  |  | 3,190  | 0.365  | 2,640  | 0.39   | 2,220  | 0.450 | 1,400  | 0.63  | 585    | 0.86  |

## No. 7 Tractrix Fan

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances.

| R.P.M. | Tip Speed<br>F.P.M. | S.N.D.<br>in<br>Inches | Volume                            | H. P. | Volume   | H. P. | Volume   | H. P. | Volume   | H. P. | Volume   | H. P. | Volume   | H. P. | Volume   | H. P. |
|--------|---------------------|------------------------|-----------------------------------|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|
|        |                     |                        | C.F.M.                            |       | C.F.M.   |       | C.F.M.   |       | C.F.M.   |       | C.F.M.   |       | C.F.M.   |       | C.F.M.   |       |
|        |                     |                        | Static Pressure<br>Free Discharge |       | Static Pressure<br>¾" Water<br>.072 ozs. per<br>sq. inch |       | Static Pressure<br>½" Water<br>.145 ozs. per<br>sq. inch |       | Static Pressure<br>¾" Water<br>.217 ozs. per<br>sq. inch |       | Static Pressure<br>½" Water<br>.289 ozs. per<br>sq. inch |       | Static Pressure<br>¾" Water<br>.434 ozs. per<br>sq. inch |       | Static Pressure<br>1" Water<br>.578 ozs. per<br>sq. inch |       |
| 314    | 2200                | 0.206                  | 2,000                             | 0.017 |  |       |  |       |  |       |  |       |  |       |  |       |
| 343    | 2400                | 0.245                  | 2,180                             | 0.023 |  |       |  |       |  |       |  |       |  |       |  |       |
| 371    | 2600                | 0.287                  | 2,370                             | 0.029 | 526  | 0.062 |  |       |  |       |  |       |  |       |  |       |
| 400    | 2800                | 0.333                  | 2,540                             | 0.036 | 820  | 0.067 |  |       |  |       |  |       |  |       |  |       |
| 428    | 3000                | 0.382                  | 2,730                             | 0.044 | 1,110  | 0.072 |  |       |  |       |  |       |  |       |  |       |
| 457    | 3200                | 0.435                  | 2,910                             | 0.053 | 1,370  | 0.076 |  |       |  |       |  |       |  |       |  |       |
| 485    | 3400                | 0.491                  | 3,000                             | 0.064 | 1,620  | 0.083 |  |       |  |       |  |       |  |       |  |       |
| 514    | 3600                | 0.551                  | 3,270                             | 0.076 | 1,880  | 0.094 | 632  | 0.175 |  |       |  |       |  |       |  |       |
| 542    | 3800                | 0.614                  | 3,450                             | 0.089 | 2,140  | 0.105 | 932  | 0.180 |  |       |  |       |  |       |  |       |
| 571    | 4000                | 0.680                  | 3,640                             | 0.105 | 2,370  | 0.115 | 1,220  | 0.190 |  |       |  |       |  |       |  |       |
| 599    | 4200                | 0.750                  | 3,820                             | 0.120 | 2,640  | 0.130 | 1,510  | 0.200 |  |       |  |       |  |       |  |       |
| 628    | 4400                | 0.822                  | 4,000                             | 0.140 | 2,940  | 0.150 | 1,780  | 0.210 | 772  | 0.320 |  |       |  |       |  |       |
| 656    | 4600                | 0.899                  | 4,180                             | 0.160 | 3,170  | 0.165 | 2,030  | 0.220 | 1,040  | 0.330 |  |       |  |       |  |       |
| 685    | 4800                | 0.980                  | 4,370                             | 0.180 | 3,410  | 0.185 | 2,280  | 0.235 | 1,370  | 0.345 |  |       |  |       |  |       |
| 714    | 5000                | 1.06                   | 4,550                             | 0.205 | 3,650  | 0.205 | 2,540  | 0.255 | 1,640  | 0.355 | 740  | 0.49  |  |       |  |       |
| 749    | 5250                | 1.17                   | 4,780                             | 0.235 | 3,930  | 0.235 | 2,860  | 0.285 | 1,960  | 0.370 | 1,130  | 0.50  |  |       |  |       |
| 785    | 5500                | 1.29                   | 5,000                             | 0.270 | 4,230  | 0.275 | 3,190  | 0.31  | 2,320  | 0.390 | 1,500  | 0.53  |  |       |  |       |
| 820    | 5750                | 1.40                   | 5,230                             | 0.310 | 4,490  | 0.31  | 3,510  | 0.34  | 2,640  | 0.415 | 1,870  | 0.55  |  |       |  |       |
| 856    | 6000                | 1.53                   | 5,450                             | 0.350 | 4,750  | 0.36  | 3,840  | 0.38  | 2,970  | 0.450 | 2,220  | 0.58  |  |       |  |       |
| 881    | 6250                | 1.66                   | 5,680                             | 0.395 | 5,000  | 0.40  | 4,180  | 0.42  | 3,260  | 0.485 | 2,540  | 0.60  | 1,120  | 0.91  |  |       |
| 928    | 6500                | 1.79                   | 5,910                             | 0.45  |  |       | 4,490  | 0.47  | 3,580  | 0.52  | 2,860  | 0.63  | 1,470  | 0.94  |  |       |
| 964    | 6750                | 1.94                   | 6,140                             | 0.50  |  |       | 4,800  | 0.52  | 3,880  | 0.57  | 3,200  | 0.66  | 1,840  | 0.96  |  |       |
| 1000   | 7000                | 2.08                   | 6,370                             | 0.56  |  |       | 5,050  | 0.58  | 4,170  | 0.62  | 3,520  | 0.71  | 2,210  | 1     | 928  | 1.35  |

## No. 8 Tractrix Fan

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed<br>F.P.M. | S.N.D.<br>in<br>Inches | Volume                            | H. P. | Volume   | H. P. | Volume   | H. P. | Volume   | H. P. | Volume   | H. P. | Volume   | H. P. | Volume   | H. P. |
|--------|---------------------|------------------------|-----------------------------------|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|
|        |                     |                        | C.F.M.                            |       | C.F.M.   |       | C.F.M.   |       | C.F.M.   |       | C.F.M.   |       | C.F.M.   |       | C.F.M.   |       |
|        |                     |                        | Static Pressure<br>Free Discharge |       | Static Pressure<br>¾" Water<br>.072 ozs. per<br>sq. inch |       | Static Pressure<br>½" Water<br>.145 ozs. per<br>sq. inch |       | Static Pressure<br>¾" Water<br>.217 ozs. per<br>sq. inch |       | Static Pressure<br>½" Water<br>.289 ozs. per<br>sq. inch |       | Static Pressure<br>¾" Water<br>.434 ozs. per<br>sq. inch |       | Static Pressure<br>1" Water<br>.578 ozs. per<br>sq. inch |       |
| 262    | 2200                | 0.206                  | 2,860                             | 0.025 |  |       |  |       |  |       |  |       |  |       |  |       |
| 286    | 2400                | 0.242                  | 3,130                             | 0.032 |  |       |  |       |  |       |  |       |  |       |  |       |
| 310    | 2600                | 0.287                  | 3,380                             | 0.041 | 754  | 0.088 |  |       |  |       |  |       |  |       |  |       |
| 334    | 2800                | 0.333                  | 3,640                             | 0.051 | 1,170  | 0.095 |  |       |  |       |  |       |  |       |  |       |
| 358    | 3000                | 0.382                  | 3,900                             | 0.063 | 1,590  | 0.105 |  |       |  |       |  |       |  |       |  |       |
| 382    | 3200                | 0.435                  | 4,160                             | 0.077 | 1,970  | 0.110 |  |       |  |       |  |       |  |       |  |       |
| 405    | 3400                | 0.491                  | 4,420                             | 0.092 | 2,320  | 0.120 |  |       |  |       |  |       |  |       |  |       |
| 429    | 3600                | 0.551                  | 4,680                             | 0.110 | 2,690  | 0.135 | 905  | 0.250 |  |       |  |       |  |       |  |       |
| 453    | 3800                | 0.614                  | 4,940                             | 0.130 | 3,060  | 0.150 | 1,340  | 0.260 |  |       |  |       |  |       |  |       |
| 477    | 4000                | 0.680                  | 5,200                             | 0.150 | 3,400  | 0.165 | 1,740  | 0.275 |  |       |  |       |  |       |  |       |
| 501    | 4200                | 0.750                  | 5,460                             | 0.175 | 3,780  | 0.190 | 2,160  | 0.290 |  |       |  |       |  |       |  |       |
| 525    | 4400                | 0.822                  | 5,720                             | 0.200 | 4,200  | 0.210 | 2,550  | 0.300 | 1,110  | 0.460 |  |       |  |       |  |       |
| 548    | 4600                | 0.899                  | 5,990                             | 0.230 | 4,540  | 0.235 | 2,900  | 0.315 | 1,490  | 0.475 |  |       |  |       |  |       |
| 573    | 4800                | 0.980                  | 6,250                             | 0.260 | 4,880  | 0.265 | 3,270  | 0.335 | 1,900  | 0.495 |  |       |  |       |  |       |
| 596    | 5000                | 1.06                   | 6,500                             | 0.290 | 5,220  | 0.295 | 3,630  | 0.365 | 2,340  | 0.51  | 1,060  | 0.70  |  |       |  |       |
| 620    | 5250                | 1.17                   | 6,840                             | 0.340 | 5,620  | 0.340 | 4,100  | 0.405 | 2,810  | 0.53  | 1,610  | 0.72  |  |       |  |       |
| 656    | 5500                | 1.29                   | 7,150                             | 0.390 | 6,050  | 0.390 | 4,550  | 0.445 | 3,310  | 0.56  | 2,150  | 0.75  |  |       |  |       |
| 686    | 5750                | 1.40                   | 7,480                             | 0.445 | 6,410  | 0.445 | 5,020  | 0.485 | 3,790  | 0.59  | 2,670  | 0.78  |  |       |  |       |
| 715    | 6000                | 1.53                   | 7,800                             | 0.50  | 6,800  | 0.51  | 5,500  | 0.55  | 4,250  | 0.65  | 3,180  | 0.82  |  |       |  |       |
| 745    | 6250                | 1.66                   | 8,120                             | 0.56  | 7,150  | 0.57  | 5,980  | 0.60  | 4,670  | 0.70  | 3,630  | 0.85  | 1,610  | 1.30  |  |       |
| 775    | 6500                | 1.79                   | 8,450                             | 0.64  |  |       | 6,420  | 0.67  | 5,120  | 0.75  | 4,110  | 0.90  | 2,100  | 1.35  |  |       |
| 805    | 6750                | 1.94                   | 8,790                             | 0.72  |  |       | 6,860  | 0.74  | 5,540  | 0.82  | 4,590  | 0.95  | 2,630  | 1.40  |  |       |
| 835    | 7000                | 2.08                   | 9,110                             | 0.80  |  |       | 7,230  | 0.83  | 5,980  | 0.88  | 5,040  | 1     | 3,170  | 1.45  | 1,330  | 1.95  |

## No. 9 Tractrix Fan

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances.

| R.P.M. | Tip Speed<br>F.P.M. | S.N.D.<br>in<br>inches | Volume | H. P.                             | Volume | H. P.  | Volume | H. P.  | Volume | H. P.  | Volume | H. P.  | Volume | H. P.  | Volume | H. P.  |
|--------|---------------------|------------------------|--------|-----------------------------------|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|
|        |                     |                        | C.F.M. | Static Pressure<br>Free Discharge | C.F.M. | Static Pressure<br>1/2" Water<br>.072 ozs. per<br>sq. inch | C.F.M. | Static Pressure<br>3/4" Water<br>.145 ozs. per<br>sq. inch | C.F.M. | Static Pressure<br>1" Water<br>.217 ozs. per<br>sq. inch | C.F.M. | Static Pressure<br>1 1/4" Water<br>.289 ozs. per<br>sq. inch | C.F.M. | Static Pressure<br>1 1/2" Water<br>.344 ozs. per<br>sq. inch | C.F.M. | Static Pressure<br>1 3/4" Water<br>.378 ozs. per<br>sq. inch |
| 225    | 2200                | 0.206                  | 3,890  | 0.034                             |        |  |        |  |        |  |        |  |        |  |        |  |
| 246    | 2400                | 0.245                  | 4,250  | 0.044                             |        |  |        |  |        |  |        |  |        |  |        |  |
| 266    | 2600                | 0.287                  | 4,600  | 0.056                             | 1,020  | 0.120  |        |  |        |  |        |  |        |  |        |  |
| 286    | 2800                | 0.333                  | 4,950  | 0.070                             | 1,590  | 0.130  |        |  |        |  |        |  |        |  |        |  |
| 307    | 3000                | 0.382                  | 5,300  | 0.086                             |        |  |        |  |        |  |        |  |        |  |        |  |
| 327    | 3200                | 0.435                  | 5,650  | 0.105                             | 2,160  | 0.140  |        |  |        |  |        |  |        |  |        |  |
| 348    | 3400                | 0.491                  | 6,000  | 0.125                             | 2,670  | 0.145  |        |  |        |  |        |  |        |  |        |  |
| 368    | 3600                | 0.551                  | 6,350  | 0.150                             | 3,150  | 0.160  |        |  |        |  |        |  |        |  |        |  |
| 380    | 3800                | 0.614                  | 8,720  | 0.175                             | 3,660  | 0.180  | 1,230  | 0.340  |        |  |        |  |        |  |        |  |
| 410    | 4000                | 0.680                  | 7,060  | 0.205                             | 4,150  | 0.205  | 1,820  | 0.355  |        |  |        |  |        |  |        |  |
| 430    | 4200                | 0.750                  | 7,420  | 0.235                             | 4,610  | 0.220  | 2,370  | 0.375  |        |  |        |  |        |  |        |  |
| 450    | 4400                | 0.822                  | 7,780  | 0.270                             | 5,130  | 0.255  | 2,940  | 0.390  |        |  |        |  |        |  |        |  |
| 471    | 4600                | 0.899                  | 8,130  | 0.310                             | 5,710  | 0.029  | 3,470  | 0.405  | 1,500  | 0.63   |        |  |        |  |        |  |
| 491    | 4800                | 0.980                  | 8,500  | 0.350                             | 6,170  | 0.32   | 3,940  | 0.425  | 2,020  | 0.65   |        |  |        |  |        |  |
| 512    | 5000                | 1.06                   | 8,850  | 0.395                             | 6,620  | 0.36   | 4,440  | 0.460  | 2,660  | 0.67   |        |  |        |  |        |  |
| 537    | 5250                | 1.17                   | 9,300  | 0.46                              | 7,090  | 0.40   | 4,930  | 0.495  | 3,180  | 0.69   | 1,440  | 0.95   |        |  |        |  |
| 563    | 5500                | 1.29                   | 9,720  | 0.53                              | 7,650  | 0.46   | 5,560  | 0.55   | 3,820  | 0.73   | 2,170  | 0.98   |        |  |        |  |
| 589    | 5750                | 1.40                   | 10,200 | 0.60                              | 8,230  | 0.53   | 6,200  | 0.60   | 4,500  | 0.76   | 2,920  | 1.00   |        |  |        |  |
| 614    | 6000                | 1.53                   | 10,600 | 0.69                              | 8,730  | 0.60   | 6,830  | 0.66   | 5,140  | 0.81   | 3,620  | 1.05   |        |  |        |  |
| 640    | 6250                | 1.66                   | 11,000 | 0.77                              | 9,240  | 0.70   | 7,470  | 0.74   | 5,780  | 0.88   | 4,320  | 1.10   |        |  |        |  |
| 665    | 6500                | 1.79                   | 11,500 | 0.87                              | 9,730  | 0.78   | 8,110  | 0.82   | 6,350  | 0.95   | 4,930  | 1.15   | 2,180  | 1.75   |        |  |
| 691    | 6750                | 1.94                   | 11,900 | 0.98                              |        |  | 8,730  | 0.91   | 6,960  | 1.0  | 5,580  | 1.25   | 2,860  | 1.80   |        |  |
| 716    | 7000                | 2.08                   | 12,400 | 1.1                               |        |  | 9,330  | 1.0  | 7,530  | 1.1  | 6,240  | 1.3  | 3,580  | 1.85   |        |  |
|        |                     |                        |        |                                   |        |  | 9,830  | 1.1  | 8,120  | 1.2  | 6,850  | 1.4  | 4,300  | 1.95   | 1,800  | 2.65   |

## No. 10 Tractrix Fan

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances.

| R.P.M. | Tip Speed<br>F.P.M. | S.N.D.<br>in<br>inches | Volume | H. P.                             | Volume | H. P.  | Volume | H. P.  | Volume | H. P.  | Volume | H. P.  | Volume | H. P.  | Volume | H. P.  |
|--------|---------------------|------------------------|--------|-----------------------------------|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|
|        |                     |                        | C.F.M. | Static Pressure<br>Free Discharge | C.F.M. | Static Pressure<br>1/2" Water<br>.072 ozs. per<br>sq. inch | C.F.M. | Static Pressure<br>3/4" Water<br>.145 ozs. per<br>sq. inch | C.F.M. | Static Pressure<br>1" Water<br>.217 ozs. per<br>sq. inch | C.F.M. | Static Pressure<br>1 1/4" Water<br>.289 ozs. per<br>sq. inch | C.F.M. | Static Pressure<br>1 1/2" Water<br>.344 ozs. per<br>sq. inch | C.F.M. | Static Pressure<br>1 3/4" Water<br>.378 ozs. per<br>sq. inch |
| 196    | 2200                | 0.206                  | 5,120  | 0.044                             |        |  |        |  |        |  |        |  |        |  |        |  |
| 214    | 2400                | 0.245                  | 5,580  | 0.058                             |        |  |        |  |        |  |        |  |        |  |        |  |
| 232    | 2600                | 0.287                  | 6,050  | 0.073                             | 1,350  | 0.160  |        |  |        |  |        |  |        |  |        |  |
| 250    | 2800                | 0.333                  | 6,500  | 0.092                             | 2,090  | 0.170  |        |  |        |  |        |  |        |  |        |  |
| 268    | 3000                | 0.382                  | 6,970  | 0.115                             |        |  |        |  |        |  |        |  |        |  |        |  |
| 286    | 3200                | 0.435                  | 7,430  | 0.135                             | 2,840  | 0.185  |        |  |        |  |        |  |        |  |        |  |
| 303    | 3400                | 0.491                  | 7,900  | 0.165                             | 3,510  | 0.195  |        |  |        |  |        |  |        |  |        |  |
| 321    | 3600                | 0.551                  | 8,380  | 0.195                             | 4,130  | 0.215  |        |  |        |  |        |  |        |  |        |  |
| 339    | 3800                | 0.614                  | 8,830  | 0.230                             | 4,800  | 0.240  | 1,020  | 0.450  |        |  |        |  |        |  |        |  |
| 357    | 4000                | 0.680                  | 9,300  | 0.265                             | 5,460  | 0.270  | 2,390  | 0.465  |        |  |        |  |        |  |        |  |
| 375    | 4200                | 0.750                  | 9,760  | 0.310                             | 6,060  | 0.300  | 3,120  | 0.49   |        |  |        |  |        |  |        |  |
| 393    | 4400                | 0.822                  | 10,200 | 0.365                             | 6,740  | 0.335  | 3,860  | 0.51   |        |  |        |  |        |  |        |  |
| 411    | 4600                | 0.899                  | 10,700 | 0.405                             | 7,510  | 0.380  | 4,560  | 0.54   | 1,980  | 0.83   |        |  |        |  |        |  |
| 429    | 4800                | 0.980                  | 11,200 | 0.46                              | 8,110  | 0.425  | 5,190  | 0.56   | 2,660  | 0.85   |        |  |        |  |        |  |
| 446    | 5000                | 1.06                   | 11,600 | 0.52                              | 8,720  | 0.47   | 5,830  | 0.60   | 3,500  | 0.89   |        |  |        |  |        |  |
| 469    | 5250                | 1.17                   | 12,200 | 0.60                              | 9,320  | 0.53   | 6,480  | 0.65   | 4,190  | 0.91   | 1,900  | 1.25   |        |  |        |  |
| 491    | 5500                | 1.29                   | 12,800 | 0.70                              | 10,100 | 0.60   | 7,310  | 0.73   | 5,020  | 0.95   | 2,880  | 1.30   |        |  |        |  |
| 513    | 5750                | 1.40                   | 13,400 | 0.80                              | 10,800 | 0.70   | 8,150  | 0.79   | 5,920  | 1.00   | 3,840  | 1.35   |        |  |        |  |
| 536    | 6000                | 1.53                   | 13,900 | 0.90                              | 11,500 | 0.80   | 8,970  | 0.87   | 6,760  | 1.05   | 4,770  | 1.40   |        |  |        |  |
| 558    | 6250                | 1.66                   | 14,500 | 1.00                              | 12,200 | 0.92   | 9,820  | 0.98   | 7,600  | 1.15   | 5,680  | 1.45   |        |  |        |  |
| 580    | 6500                | 1.79                   | 15,100 | 1.15                              | 12,800 | 1  | 10,700 | 1.10   | 8,350  | 1.25   | 6,480  | 1.5  | 2,870  | 2.35   |        |  |
| 603    | 6750                | 1.94                   | 15,700 | 1.30                              |        |  | 11,500 | 1.20   | 9,170  | 1.35   | 7,330  | 1.6  | 3,760  | 2.40   |        |  |
| 625    | 7000                | 2.08                   | 16,300 | 1.45                              |        |  | 12,300 | 1.35   | 9,900  | 1.45   | 8,200  | 1.7  | 4,700  | 2.45   |        |  |
|        |                     |                        |        |                                   |        |  | 12,900 | 1.5  | 10,700 | 1.55   | 9,000  | 1.8  | 5,660  | 2.55   | 2,870  | 3.5  |



# No. 11 Tractrix Fan

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances.

| R.P.M. | Tip Speed<br>F.P.M. | S.N.D.<br>Inches | Volume<br>C.F.M. |           | H. P.  | Volume<br>C.F.M.                                   |  | H. P.  | Volume<br>C.F.M.                                   |  | H. P.  | Volume<br>C.F.M. |       | H. P. | Volume<br>C.F.M. |     | H. P. | Volume<br>C.F.M. |  | H. P. | Volume<br>C.F.M. |  | H. P. |
|--------|---------------------|------------------|------------------|-----------|--|--|--|--|--|--|--|------------------|-------|-------|------------------|-----|-------|------------------|--|-------|------------------|--|-------|
|        |                     |                  | Static Pressure  |           |  | Static Pressure                                    |  |  | Static Pressure                                    |  |  | Static Pressure  |       |       | Static Pressure  |     |       | Static Pressure  |  |       |                  |  |       |
|        |                     |                  | Free             | Discharge | $\frac{3}{4}$ " Water<br>.072 ozs. per<br>sq. inch | $\frac{1}{2}$ " Water<br>.145 ozs. per<br>sq. inch | $\frac{3}{4}$ " Water<br>.217 ozs. per<br>sq. inch | $\frac{1}{2}$ " Water<br>.289 ozs. per<br>sq. inch | $\frac{3}{4}$ " Water<br>.334 ozs. per<br>sq. inch | $\frac{1}{2}$ " Water<br>.484 ozs. per<br>sq. inch | $\frac{3}{4}$ " Water<br>.578 ozs. per<br>sq. inch |                  |       |       |                  |     |       |                  |  |       |                  |  |       |
| 175    | 2200                | 0.206            | 6,460            | 0.056     |  |  |  |  |  |  |  |                  |       |       |                  |     |       |                  |  |       |                  |  |       |
| 191    | 2400                | 0.245            | 7,050            | 0.073     |  |  |  |  |  |  |  |                  |       |       |                  |     |       |                  |  |       |                  |  |       |
| 207    | 2600                | 0.287            | 7,630            | 0.093     | 1,700  | 0.200  |  |  |  |  |  |                  |       |       |                  |     |       |                  |  |       |                  |  |       |
| 222    | 2800                | 0.333            | 8,210            | 0.115     | 2,640  | 0.215  |  |  |  |  |  |                  |       |       |                  |     |       |                  |  |       |                  |  |       |
| 239    | 3000                | 0.382            | 8,800            | 0.140     | 3,590  | 0.230  |  |  |  |  |  |                  |       |       |                  |     |       |                  |  |       |                  |  |       |
| 254    | 3200                | 0.435            | 9,380            | 0.170     | 4,430  | 0.245  |  |  |  |  |  |                  |       |       |                  |     |       |                  |  |       |                  |  |       |
| 270    | 3400                | 0.491            | 9,980            | 0.205     | 5,230  | 0.270  |  |  |  |  |  |                  |       |       |                  |     |       |                  |  |       |                  |  |       |
| 286    | 3600                | 0.551            | 10,600           | 0.245     | 6,080  | 0.290  | 2,040  | 0.57   |  |  |  |                  |       |       |                  |     |       |                  |  |       |                  |  |       |
| 302    | 3800                | 0.614            | 11,100           | 0.290     | 6,890  | 0.340  | 3,010  | 0.59   |  |  |  |                  |       |       |                  |     |       |                  |  |       |                  |  |       |
| 318    | 4000                | 0.680            | 11,700           | 0.335     | 7,660  | 0.380  | 3,930  | 0.62   |  |  |  |                  |       |       |                  |     |       |                  |  |       |                  |  |       |
| 334    | 4200                | 0.750            | 12,300           | 0.390     | 8,520  | 0.425  | 4,870  | 0.65   |  |  |  |                  |       |       |                  |     |       |                  |  |       |                  |  |       |
| 350    | 4400                | 0.822            | 12,900           | 0.45      | 9,500  | 0.48   | 5,760  | 0.68   | 2,490  | 1.05   |  |                  |       |       |                  |     |       |                  |  |       |                  |  |       |
| 366    | 4600                | 0.899            | 13,500           | 0.51      | 10,300   | 0.53   | 6,550  | 0.71   | 3,350  | 1.05   |  |                  |       |       |                  |     |       |                  |  |       |                  |  |       |
| 382    | 4800                | 0.980            | 14,100           | 0.58      | 11,000   | 0.59   | 7,370  | 0.76   | 4,420  | 1.10   |  |                  |       |       |                  |     |       |                  |  |       |                  |  |       |
| 398    | 5000                | 1.06             | 14,700           | 0.66      | 11,800   | 0.67   | 8,200  | 0.82   | 5,300  | 1.15   | 2,390  | 1.55             |       |       |                  |     |       |                  |  |       |                  |  |       |
| 418    | 5250                | 1.17             | 15,400           | 0.76      | 12,700   | 0.77   | 9,240  | 0.92   | 6,330  | 1.20   | 3,650  | 1.60             |       |       |                  |     |       |                  |  |       |                  |  |       |
| 438    | 5500                | 1.29             | 16,200           | 0.88      | 13,700   | 0.88   | 10,300   | 1.00   | 7,470  | 1.25   | 4,850  | 1.70             |       |       |                  |     |       |                  |  |       |                  |  |       |
| 457    | 5750                | 1.40             | 16,900           | 1.00      | 14,500   | 1.00   | 11,300   | 1.10   | 8,540  | 1.35   | 6,020  | 1.75             |       |       |                  |     |       |                  |  |       |                  |  |       |
| 477    | 6000                | 1.53             | 17,600           | 1.15      | 15,400   | 1.15   | 12,400   | 1.25   | 9,600  | 1.45   | 7,180  | 1.85             |       |       |                  |     |       |                  |  |       |                  |  |       |
| 497    | 6250                | 1.66             | 18,300           | 1.25      | 16,200   | 1.3  | 13,500   | 1.35   | 10,500   | 1.55   | 8,190  | 1.95             | 3,630 | 2.95  |                  |     |       |                  |  |       |                  |  |       |
| 516    | 6500                | 1.79             | 19,100           | 1.45      |  |  | 14,500   | 1.50   | 11,600   | 1.70   | 9,280  | 2.05             | 4,750 | 3.0   |                  |     |       |                  |  |       |                  |  |       |
| 536    | 6750                | 1.94             | 19,800           | 1.6       |  |  | 15,500   | 1.65   | 12,500   | 1.85   | 10,400   | 2.15             | 5,940 | 3.1   |                  |     |       |                  |  |       |                  |  |       |
| 556    | 7000                | 2.08             | 20,600           | 1.8       |  |  | 16,300   | 1.85   | 13,500   | 2  | 11,400   | 2.3              | 7,150 | 3.2   | 3,000            | 4.4 |       |                  |  |       |                  |  |       |

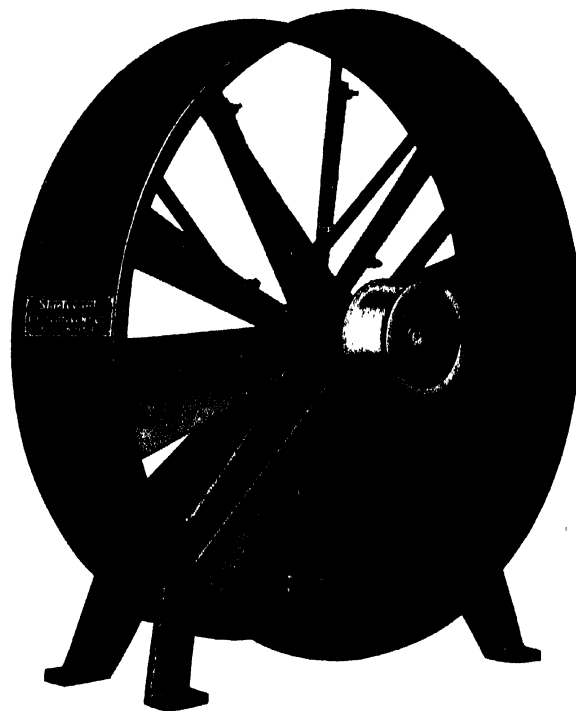
# **STURTEVANT DISC FANS**

## **Design 1**

**Dimensions, Capacities, Horse Powers**



## Sturtevant Disc Fan—Design 1



Sturtevant Disc Fan

## **DISC FAN — DESIGN 1**

### **SPECIFICATIONS**

There shall be furnished a Sturtevant.....  
inch Design 1 Disc Fan, the wheel having  
.....blades firmly fixed to radial steel  
arms cast into the hub. The casing shall be  
of No.....gauge sheet steel suitably sup-  
ported by angle irons placed around both the  
inlet and delivery sides of the casing. Re-  
movable feet shall be bolted to the casing.

The fan shall have a capacity of.....cubic  
feet per minute and shall operate at approx-  
imately.....R. P. M., requiring approx-  
imately.....B. H. P.

## **Sturtevant Disc Fan—Design 1**

### **EXPLANATION OF TABLES**

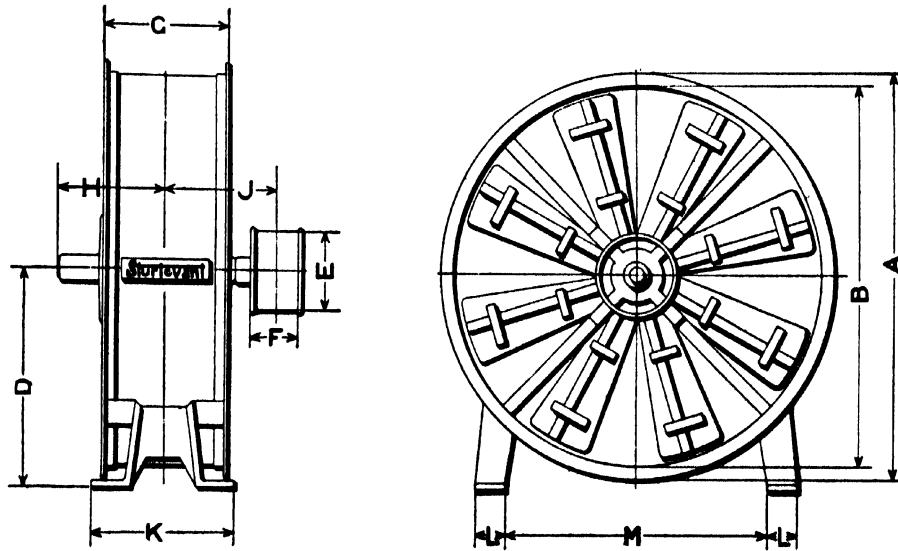
These fans are not usually applied in connection with piping systems because they are not efficient where a large component of the pressure is static.

Capacities are therefore measured with fan discharging into a plenum space, the maintained resistance being the static pressure in that space.

# **Disc Fan — Design 1** **APPROXIMATE WEIGHTS**

| Size | Weight Not Packed |
|------|-------------------|
| 18   | 65                |
| 24   | 100               |
| 30   | 166               |
| 36   | 190               |
| 42   | 290               |
| 48   | 350               |
| 54   | 425               |
| 60   | 535               |
| 66   | 665               |
| 72   | 875               |
| 78   | 1000              |
| 84   | 1025              |
| 96   | 1175              |
| 108  | 1470              |
| 120  | 1800              |

# Disc Fan — Design 1



| Fan Size | A    | B    | D   | E  | F   | G   | H   | J   | K   | L  | M   |
|----------|------|------|-----|----|-----|-----|-----|-----|-----|----|-----|
| 18       | 19½  | 18½  | 11  | 4  | 2½  | 10½ | 8½  | 7½  | 10½ | 1½ | 12½ |
| 24       | 25½  | 24½  | 14  | 5  | 2½  | 11½ | 8½  | 8½  | 11½ | 1½ | 17½ |
| 30       | 33½  | 30½  | 17½ | 6  | 3½  | 11½ | 10½ | 9½  | 12½ | 2½ | 21  |
| 36       | 39½  | 36½  | 20½ | 7  | 4½  | 12½ | 10½ | 10½ | 14  | 3  | 26  |
| 42       | 46   | 43   | 24  | 8  | 5½  | 13½ | 10½ | 11½ | 15½ | 3½ | 29  |
| 48       | 52   | 49   | 27  | 8  | 5½  | 14½ | 12  | 12½ | 17  | 4  | 34  |
| 54       | 58   | 55   | 30  | 9  | 5½  | 15½ | 12½ | 12½ | 18½ | 4½ | 39  |
| 60       | 64   | 61   | 33  | 10 | 6½  | 16½ | 13  | 13½ | 20  | 5  | 44  |
| 66       | 70½  | 67½  | 37  | 10 | 6½  | 18½ | 14  | 14½ | 22½ | 5½ | 47  |
| 72       | 77½  | 73½  | 40  | 12 | 7½  | 21  | 17½ | 17½ | 25½ | 6  | 52  |
| 84       | 89½  | 85½  | 46  | 14 | 8½  | 24  | 18½ | 19½ | 29½ | 7  | 60  |
| 96       | 101½ | 97½  | 52  | 16 | 10½ | 27  | 21  | 22½ | 33½ | 8  | 70  |
| 108      | 113½ | 109½ | 58  | 18 | 12½ | 30  | 22½ | 24  | 36½ | 9  | 80  |
| 120      | 128½ | 121½ | 64  | 20 | 14½ | 33  | 25  | 26½ | 39½ | 10 | 90  |



## 30" Sturtevant Disc Fan — Design 1

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed<br>F.P.M. | S.N.D.<br>in<br>Inches | Volume | H. P.                             | Volume | H. P.  | Volume | H. P.  | Volume | H. P.  | Volume | H. P.  | Volume | H. P.  | Volume | H. P.  |
|--------|---------------------|------------------------|--------|-----------------------------------|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|
|        |                     |                        | C.F.M. | Static Pressure<br>Free Discharge | C.F.M. | Static Pressure<br>1/4" Water<br>.145 oza. per<br>sq. inch | C.F.M. | Static Pressure<br>3/4" Water<br>.217 oza. per<br>sq. inch | C.F.M. | Static Pressure<br>1 1/4" Water<br>.289 oza. per<br>sq. inch | C.F.M. | Static Pressure<br>1 3/4" Water<br>.344 oza. per<br>sq. inch | C.F.M. | Static Pressure<br>2" Water<br>.434 oza. per<br>sq. inch | C.F.M. | Static Pressure<br>2 1/2" Water<br>.578 oza. per<br>sq. inch |
| 280    | 2200                | 0.119                  | 2,700  | 0.066                             |        |  |        |  |        |  |        |  |        |  |        |  |
| 306    | 2400                | 0.141                  | 2,940  | 0.085                             |        |  |        |  |        |  |        |  |        |  |        |  |
| 330    | 2600                | 0.167                  | 3,190  | 0.110                             |        |  |        |  |        |  |        |  |        |  |        |  |
| 356    | 2800                | 0.192                  | 3,440  | 0.135                             |        |  |        |  |        |  |        |  |        |  |        |  |
| 382    | 3000                | 0.221                  | 3,680  | 0.165                             |        |  |        |  |        |  |        |  |        |  |        |  |
| 408    | 3200                | 0.251                  | 3,930  | 0.200                             |        |  |        |  |        |  |        |  |        |  |        |  |
| 433    | 3400                | 0.284                  | 4,180  | 0.240                             |        |  |        |  |        |  |        |  |        |  |        |  |
| 459    | 3600                | 0.318                  | 4,430  | 0.285                             | 785    | 0.455  |        |  |        |  |        |  |        |  |        |  |
|        |                     |                        |        |                                   | 1,420  | 0.50   |        |  |        |  |        |  |        |  |        |  |
| 485    | 3800                | 0.354                  | 4,670  | 0.335                             | 1,960  | 0.57   |        |  |        |  |        |  |        |  |        |  |
| 510    | 4000                | 0.392                  | 4,910  | 0.395                             | 2,320  | 0.65   |        |  |        |  |        |  |        |  |        |  |
| 535    | 4200                | 0.432                  | 5,160  | 0.455                             | 2,530  | 0.73   | 1,100  | 0.84   |        |  |        |  |        |  |        |  |
| 560    | 4400                | 0.475                  | 5,400  | 0.53                              | 2,730  | 0.81   | 1,780  | 0.93   |        |  |        |  |        |  |        |  |
| 585    | 4600                | 0.519                  | 5,650  | 0.60                              | 2,890  | 0.89   | 2,260  | 1.00   |        |  |        |  |        |  |        |  |
| 611    | 4800                | 0.565                  | 5,900  | 0.68                              | 3,070  | 0.98   | 2,690  | 1.20   | 1,060  | 1.30   |        |  |        |  |        |  |
| 636    | 5000                | 0.613                  | 6,140  | 0.77                              | 3,250  | 1.10   | 2,970  | 1.25   | 1,790  | 1.40   |        |  |        |  |        |  |
| 669    | 5250                | 0.676                  | 6,460  | 0.89                              | 3,530  | 1.20   | 3,220  | 1.40   | 2,500  | 1.55   |        |  |        |  |        |  |
| 700    | 5500                | 0.741                  | 6,760  | 1.00                              | 3,800  | 1.40   | 3,430  | 1.55   | 3,030  | 1.75   |        |  |        |  |        |  |
| 732    | 5750                | 0.810                  | 7,070  | 1.15                              | 4,130  | 1.55   | 3,640  | 1.70   | 3,390  | 1.90   | 701    | 2.35   |        |  |        |  |
| 765    | 6000                | 0.881                  | 7,370  | 1.35                              | 4,420  | 1.70   | 3,860  | 1.90   | 3,650  | 2.10   | 1,800  | 2.45   |        |  |        |  |
| 796    | 6250                | 0.950                  | 7,680  | 1.50                              | 4,680  | 1.90   | 4,080  | 2.05   | 3,900  | 2.30   | 2,550  | 2.65   |        |  |        |  |
| 828    | 6500                | 1.035                  | 7,980  | 1.70                              | 5,030  | 2.05   | 4,380  | 2.3  | 4,080  | 2.50   | 3,220  | 2.90   |        |  |        |  |
| 860    | 6750                | 1.119                  | 8,280  | 1.90                              |        |  | 4,680  | 2.5  | 4,320  | 2.75   | 3,730  | 3.15   | 1,400  | 3.80   |        |  |
| 891    | 7000                | 1.200                  | 8,600  | 2.10                              |        |  |        |  | 4,530  | 3.00   | 4,060  | 3.40   | 2,320  | 4.05   |        |  |
| 955    | 7500                | 1.380                  | 9,210  | 2.60                              |        |  |        |  | 5,070  | 3.55   | 4,600  | 4.05   | 3,090  | 4.5  |        |  |
| 1020   | 8000                | 1.570                  | 9,820  | 3.15                              |        |  |        |  | 5,630  | 4.15   | 5,030  | 4.65   | 4,630  | 5.2  | 629    | 6.8  |
| 1081   | 8500                | 1.770                  | 10,400 | 3.75                              |        |  |        |  | 6,270  | 4.85   | 5,520  | 5.4  | 5,180  | 6.0  | 2,630  | 6.9  |
| 1147   | 9000                | 1.985                  | 11,100 | 4.45                              |        |  |        |  |        |  | 6,020  | 6.2  | 5,640  | 6.9  | 4,080  | 7.7  |
| 1210   | 9500                | 2.21                   | 11,700 | 5.3                               |        |  |        |  |        |  | 6,580  | 7.1  | 6,070  | 7.7  | 5,230  | 9  |
| 1272   | 10000               | 2.45                   | 12,300 | 6.2                               |        |  |        |  |        |  | 7,170  | 8.1  | 6,510  | 8.7  | 5,950  | 10   |

## 36" Sturtevant Disc Fan — Design 1

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed<br>F.P.M. | S.N.D.<br>in<br>Inches | Static Pressure<br>Free Discharge | Static Pressure<br>1/4" Water<br>.145 oza. per<br>sq. inch | Static Pressure<br>3/4" Water<br>.217 oza. per<br>sq. inch | Static Pressure<br>1 1/4" Water<br>.289 oza. per<br>sq. inch | Static Pressure<br>1 3/4" Water<br>.344 oza. per<br>sq. inch | Static Pressure<br>2" Water<br>.434 oza. per<br>sq. inch | Static Pressure<br>2 1/2" Water<br>.578 oza. per<br>sq. inch | Static Pressure<br>3" Water<br>.722 oza. per<br>sq. inch |
|--------|---------------------|------------------------|-----------------------------------|--|--|--|--|--|--|--|
| 233    | 2200                | 0.119                  | 3,890                             | 0.094  |  |  |  |  |  |  |
| 255    | 2400                | 0.141                  | 4,250                             | 0.120  |  |  |  |  |  |  |
| 276    | 2600                | 0.167                  | 4,600                             | 0.155  |  |  |  |  |  |  |
| 297    | 2800                | 0.192                  | 4,950                             | 0.195  |  |  |  |  |  |  |
| 318    | 3000                | 0.221                  | 5,310                             | 0.240  |  |  |  |  |  |  |
| 340    | 3200                | 0.251                  | 5,670                             | 0.290  |  |  |  |  |  |  |
| 361    | 3400                | 0.284                  | 6,010                             | 0.350  | 1,130  | 0.66   |  |  |  |  |
| 382    | 3600                | 0.318                  | 6,380                             | 0.415  | 2,040  | 0.72   |  |  |  |  |
| 403    | 3800                | 0.354                  | 6,720                             | 0.485  | 2,830  | 0.82   |  |  |  |  |
| 425    | 4000                | 0.392                  | 7,070                             | 0.56   | 3,340  | 0.93   |  |  |  |  |
| 445    | 4200                | 0.432                  | 7,430                             | 0.66   | 3,650  | 1.05   | 1,580  | 1.20   |  |  |
| 467    | 4400                | 0.475                  | 7,780                             | 0.76   | 3,930  | 1.15   | 2,560  | 1.35   |  |  |
| 488    | 4600                | 0.519                  | 8,130                             | 0.86   | 4,170  | 1.30   | 3,250  | 1.45   |  |  |
| 510    | 4800                | 0.565                  | 8,500                             | 0.98   | 4,420  | 1.40   | 3,870  | 1.70   | 1,530  | 1.85   |
| 531    | 5000                | 0.613                  | 8,850                             | 1.10   | 4,680  | 1.55   | 4,280  | 1.80   | 2,580  | 2.00   |
| 557    | 5250                | 0.676                  | 9,300                             | 1.30   | 5,090  | 1.75   | 4,640  | 2.00   | 3,610  | 2.25   |
| 584    | 5500                | 0.741                  | 9,730                             | 1.45   | 5,480  | 2.00   | 4,930  | 2.25   | 4,350  | 2.50   |
| 610    | 5750                | 0.810                  | 10,200                            | 1.70   | 5,940  | 2.20   | 5,240  | 2.50   | 4,870  | 2.75   |
| 637    | 6000                | 0.881                  | 10,600                            | 1.90   | 6,380  | 2.45   | 5,560  | 2.70   | 5,270  | 3.05   |
| 663    | 6250                | 0.956                  | 11,100                            | 2.15   | 6,760  | 2.70   | 5,880  | 2.95   | 5,620  | 3.35   |
| 690    | 6500                | 1.035                  | 11,500                            | 2.45   | 7,200  | 2.95   | 6,320  | 3.30   | 5,880  | 3.65   |
| 716    | 6750                | 1.119                  | 11,900                            | 2.70   |  |  | 6,730  | 3.65   | 6,210  | 3.95   |
| 743    | 7000                | 1.200                  | 12,400                            | 3.05   |  |  |  |  | 6,530  | 4.3  |
| 766    | 7500                | 1.380                  | 13,300                            | 3.75   |  |  |  |  | 7,310  | 5.1  |
| 849    | 8000                | 1.570                  | 14,200                            | 4.5  |  |  |  |  | 8,060  | 6  |
| 902    | 8500                | 1.770                  | 15,000                            | 5.4  |  |  |  |  | 9,020  | 7  |
| 955    | 9000                | 1.985                  | 15,900                            | 6.5  |  |  |  |  |  |  |
| 1008   | 9500                | 2.21                   | 16,800                            | 7.6  |  |  |  |  |  |  |
| 1060   | 10000               | 2.45                   | 17,700                            | 8.8  |  |  |  |  |  |  |
|        |                     |                        |                                   |  |  |  |  |  | 10,300   | 11.5   |
|        |                     |                        |                                   |  |  |  |  |  | 9,380  | 12.5   |
|        |                     |                        |                                   |  |  |  |  |  | 8,560  | 14.5   |
|        |                     |                        |                                   |  |  |  |  |  | 7,680  | 16.5   |
|        |                     |                        |                                   |  |  |  |  |  | 6,800  | 18.5   |
|        |                     |                        |                                   |  |  |  |  |  | 5,950  | 20.5   |
|        |                     |                        |                                   |  |  |  |  |  | 5,100  | 22.5   |
|        |                     |                        |                                   |  |  |  |  |  | 4,250  | 24.5   |
|        |                     |                        |                                   |  |  |  |  |  | 3,400  | 26.5   |
|        |                     |                        |                                   |  |  |  |  |  | 2,550  | 28.5   |
|        |                     |                        |                                   |  |  |  |  |  | 1,700  | 30.5   |
|        |                     |                        |                                   |  |  |  |  |  | 850  | 32.5   |
|        |                     |                        |                                   |  |  |  |  |  | 0  | 34.5   |

## 42" Sturtevant Disc Fan—Design 1

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R. P. M. | Tip Speed<br>F. P. M. | S. N. D.<br>in<br>inches | Volume |                                   | H. P. | Volume |  | H. P. | Volume |  | H. P.  | Volume |  | H. P. | Volume |  | H. P. | Volume |  | H. P. |
|----------|-----------------------|--------------------------|--------|-----------------------------------|-------|--------|--|-------|--------|--|--------|--------|--|-------|--------|--|-------|--------|--|-------|
|          |                       |                          | C.F.M. | Static Pressure<br>Free Discharge |       | C.F.M. | Static Pressure<br>1/4" Water<br>.145 ozs. per<br>sq. inch |       | C.F.M. | Static Pressure<br>3/4" Water<br>.217 ozs. per<br>sq. inch |        | C.F.M. | Static Pressure<br>1/2" Water<br>.289 ozs. per<br>sq. inch |       | C.F.M. | Static Pressure<br>3/4" Water<br>.434 ozs. per<br>sq. inch |       | C.F.M. | Static Pressure<br>1" Water<br>.578 ozs. per<br>sq. inch |       |
| 200      | 2200                  | 0.119                    | 5,280  | 0.130                             |       |        |  |       |        |  |        |        |  |       |        |  |       |        |  |       |
| 218      | 2400                  | 0.141                    | 5,780  | 0.165                             |       |        |  |       |        |  |        |        |  |       |        |  |       |        |  |       |
| 236      | 2600                  | 0.167                    | 6,260  | 0.210                             |       |        |  |       |        |  |        |        |  |       |        |  |       |        |  |       |
| 255      | 2800                  | 0.192                    | 6,740  | 0.265                             |       |        |  |       |        |  |        |        |  |       |        |  |       |        |  |       |
| 273      | 3000                  | 0.221                    | 7,230  | 0.325                             |       |        |  |       |        |  |        |        |  |       |        |  |       |        |  |       |
| 291      | 3200                  | 0.251                    | 7,700  | 0.395                             |       |        |  |       |        |  |        |        |  |       |        |  |       |        |  |       |
| 309      | 3400                  | 0.284                    | 8,180  | 0.475                             | 1,540 | 0.89   |  |       |        |  |        |        |  |       |        |  |       |        |  |       |
| 329      | 3600                  | 0.318                    | 8,680  | 0.56                              | 2,780 | 0.99   |  |       |        |  |        |        |  |       |        |  |       |        |  |       |
| 346      | 3800                  | 0.354                    | 9,150  | 0.66                              | 3,840 | 1.10   |  |       |        |  |        |        |  |       |        |  |       |        |  |       |
| 364      | 4000                  | 0.392                    | 9,620  | 0.77                              | 4,550 | 1.25   |  |       |        |  |        |        |  |       |        |  |       |        |  |       |
| 382      | 4200                  | 0.432                    | 10,100 | 0.89                              | 4,970 | 1.40   | 2,150  | 1.65  |        |  |        |        |  |       |        |  |       |        |  |       |
| 400      | 4400                  | 0.475                    | 10,600 | 1.05                              | 5,350 | 1.60   | 3,480  | 1.85  |        |  |        |        |  |       |        |  |       |        |  |       |
| 418      | 4600                  | 0.519                    | 11,100 | 1.15                              | 5,670 | 1.75   | 4,430  | 2.00  |        |  |        |        |  |       |        |  |       |        |  |       |
| 436      | 4800                  | 0.565                    | 11,600 | 1.35                              | 6,000 | 1.95   | 5,270  | 2.30  | 2,080  | 2.50   |        |        |  |       |        |  |       |        |  |       |
| 455      | 5000                  | 0.613                    | 12,100 | 1.50                              | 6,380 | 2.15   | 5,830  | 2.45  | 3,510  | 2.70   |        |        |  |       |        |  |       |        |  |       |
| 478      | 5250                  | 0.676                    | 12,700 | 1.75                              | 6,930 | 2.40   | 6,320  | 2.75  | 4,910  | 3.05   |        |        |  |       |        |  |       |        |  |       |
| 500      | 5500                  | 0.741                    | 13,300 | 2.00                              | 7,400 | 2.70   | 6,720  | 3.05  | 5,930  | 3.40   |        |        |  |       |        |  |       |        |  |       |
| 523      | 5750                  | 0.810                    | 13,800 | 2.30                              | 8,080 | 3.00   | 7,140  | 3.40  | 6,640  | 3.75   | 1,550  | 4.60   |  |       |        |  |       |        |  |       |
| 545      | 6000                  | 0.881                    | 14,500 | 2.60                              | 8,670 | 3.35   | 7,560  | 3.70  | 7,170  | 4.15   | 3,520  | 4.75   |  |       |        |  |       |        |  |       |
| 569      | 6250                  | 0.956                    | 15,000 | 2.95                              | 9,210 | 3.7    | 8,010  | 4.05  | 7,640  | 4.55   | 5,000  | 5.2    |  |       |        |  |       |        |  |       |
| 591      | 6500                  | 1.035                    | 15,700 | 3.30                              | 9,870 | 4      | 8,610  | 4.50  | 8,010  | 4.95   | 6,320  | 5.7    |  |       |        |  |       |        |  |       |
| 614      | 6750                  | 1.119                    | 16,300 | 3.70                              |       |        | 9,160  | 4.95  | 8,440  | 5.4  | 7,310  | 6.2    | 2,750  | 7.5   |        |  |       |        |  |       |
| 636      | 7000                  | 1.200                    | 16,900 | 4.15                              |       |        |  |       | 8,900  | 5.8  | 7,960  | 6.7    | 4,550  | 7.9   |        |  |       |        |  |       |
| 682      | 7500                  | 1.380                    | 18,100 | 5.1                               |       |        |  |       | 9,950  | 6.9  | 9,020  | 7.9    | 7,230  | 8.9   |        |  |       |        |  |       |
| 727      | 8000                  | 1.570                    | 19,300 | 6.2                               |       |        |  |       | 11,100 | 8.1  | 9,880  | 9.2    | 9,080  | 10.0  | 1,230  | 13.0   |       |        |  |       |
| 773      | 8500                  | 1.770                    | 20,500 | 7.4                               |       |        |  |       | 12,300 | 9.5  | 10,900 | 10.5   | 10,200   | 11.5  | 5,150  | 13.5   |       |        |  |       |
| 818      | 9000                  | 1.985                    | 21,700 | 8.8                               |       |        |  |       |        |  | 11,800 | 12     | 11,100   | 13.5  | 8,020  | 15.0   |       |        |  |       |
| 864      | 9500                  | 2.210                    | 22,900 | 10.5                              |       |        |  |       |        |  | 12,900 | 14     | 11,900   | 15    | 10,300 | 17.5   |       |        |  |       |
| 910      | 10000                 | 2.45                     | 24,100 | 12                                |       |        |  |       |        |  | 14,100 | 16     | 12,800   | 17    | 11,700 | 19.5   |       |        |  |       |

## 48" Sturtevant Disc Fan—Design 1

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R. P. M. | Tip Speed<br>F. P. M. | S. N. D.<br>in<br>inches | Static Pressure<br>Free Discharge |       | Static Pressure<br>1/4" Water<br>.145 ozs. per<br>sq. inch |       | Static Pressure<br>3/4" Water<br>.217 ozs. per<br>sq. inch |       | Static Pressure<br>1/2" Water<br>.289 ozs. per<br>sq. inch |       | Static Pressure<br>3/4" Water<br>.434 ozs. per<br>sq. inch |       | Static Pressure<br>1" Water<br>.578 ozs. per<br>sq. inch |       | Static Pressure<br>1 1/4" Water<br>.878 ozs. per<br>sq. inch |       |
|----------|-----------------------|--------------------------|-----------------------------------|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|
|          |                       |                          | C.F.M.                            | H. P. | C.F.M.   | H. P. | C.F.M.   | H. P. | C.F.M.   | H. P. | C.F.M.   | H. P. | C.F.M.   | H. P. | C.F.M.   | H. P. |
| 175      | 2200                  | 0.119                    | 6,940                             | 0.170 |  |       |  |       |  |       |  |       |  |       |  |       |
| 191      | 2400                  | 0.141                    | 7,570                             | 0.220 |  |       |  |       |  |       |  |       |  |       |  |       |
| 207      | 2600                  | 0.167                    | 8,200                             | 0.280 |  |       |  |       |  |       |  |       |  |       |  |       |
| 223      | 2800                  | 0.192                    | 8,830                             | 0.350 |  |       |  |       |  |       |  |       |  |       |  |       |
| 239      | 3000                  | 0.221                    | 9,450                             | 0.425 |  |       |  |       |  |       |  |       |  |       |  |       |
| 255      | 3200                  | 0.251                    | 10,100                            | 0.52  |  |       |  |       |  |       |  |       |  |       |  |       |
| 271      | 3400                  | 0.284                    | 10,700                            | 0.62  | 2,010  | 1.15  |  |       |  |       |  |       |  |       |  |       |
| 287      | 3600                  | 0.318                    | 11,400                            | 0.74  | 3,630  | 1.30  |  |       |  |       |  |       |  |       |  |       |
| 302      | 3800                  | 0.354                    | 12,000                            | 0.87  | 5,030  | 1.45  |  |       |  |       |  |       |  |       |  |       |
| 319      | 4000                  | 0.392                    | 12,600                            | 1.00  | 5,960  | 1.65  |  |       |  |       |  |       |  |       |  |       |
| 334      | 4200                  | 0.432                    | 13,300                            | 1.15  | 6,500  | 1.85  | 2,010  | 2.15  |  |       |  |       |  |       |  |       |
| 350      | 4400                  | 0.475                    | 13,900                            | 1.35  | 7,000  | 2.10  | 4,560  | 2.40  |  |       |  |       |  |       |  |       |
| 366      | 4600                  | 0.519                    | 14,500                            | 1.55  | 7,430  | 2.30  | 5,810  | 2.60  |  |       |  |       |  |       |  |       |
| 382      | 4800                  | 0.565                    | 15,200                            | 1.75  | 7,870  | 2.50  | 6,900  | 3.05  | 2,720  | 3.30  |  |       |  |       |  |       |
| 398      | 5000                  | 0.613                    | 15,800                            | 1.95  | 8,350  | 2.80  | 7,630  | 3.20  | 4,600  | 3.50  |  |       |  |       |  |       |
| 418      | 5250                  | 0.676                    | 16,600                            | 2.30  | 9,080  | 3.15  | 8,270  | 3.60  | 6,430  | 4.00  |  |       |  |       |  |       |
| 438      | 5500                  | 0.741                    | 17,400                            | 2.60  | 9,770  | 3.55  | 8,800  | 4.00  | 7,770  | 4.45  |  |       |  |       |  |       |
| 458      | 5750                  | 0.810                    | 18,200                            | 3.00  | 10,600   | 3.95  | 9,350  | 4.45  | 8,700  | 4.9   | 2,030  | 6.0   |  |       |  |       |
| 478      | 6000                  | 0.881                    | 18,900                            | 3.40  | 11,400   | 4.40  | 9,900  | 4.85  | 9,380  | 5.4   | 4,630  | 6.2   |  |       |  |       |
| 498      | 6250                  | 0.956                    | 19,700                            | 3.85  | 12,100   | 4.85  | 10,500   | 5.3   | 10,000   | 6.0   | 6,540  | 6.8   |  |       |  |       |
| 517      | 6500                  | 1.035                    | 20,500                            | 4.35  | 12,900   | 5.2   | 11,300   | 5.9   | 10,500   | 6.5   | 8,280  | 7.5   |  |       |  |       |
| 537      | 6750                  | 1.119                    | 21,300                            | 4.85  |  |       | 12,000   | 6.5   | 11,000   | 7.1   | 9,560  | 8.1   | 3,580  | 9.8   |  |       |
| 557      | 7000                  | 1.200                    | 22,100                            | 5.4   |  |       |  |       | 11,700   | 7.6   | 10,400   | 8.7   | 5,960  | 10.5  |  |       |
| 597      | 7500                  | 1.380                    | 23,700                            | 6.7   |  |       |  |       | 13,000   | 9.1   | 11,800   | 10.5  | 9,450  | 11.5  |  |       |
| 637      | 8000                  | 1.570                    | 25,200                            | 8.1   |  |       |  |       | 14,500   | 10.5  | 12,900   | 12    | 11,900   | 13.5  | 1,620  | 17.5  |
| 677      | 8500                  | 1.770                    | 26,800                            | 9.7   |  |       |  |       | 16,100   | 12.5  | 14,100   | 14    | 13,300   | 15.5  | 6,750  | 18    |
| 717      | 9000                  | 1.985                    | 28,400                            | 11.5  |  |       |  |       |  |       | 15,500   | 16    | 14,500   | 17.5  | 10,500   | 20    |
| 756      | 9500                  | 2.210                    | 30,000                            | 13.5  |  |       |  |       |  |       | 16,900   | 18    | 15,600   | 20.0  | 13,400   | 23    |
| 796      | 10000                 | 2.45                     | 31,500                            | 16    |  |       |  |       |  |       | 18,400   | 21    | 16,700   | 22.5  | 15,300   | 26    |

## 54" Sturtevant Disc Fan—Design 1

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in | Volume C.F.M.                  | H. P. | Volume C.F.M.                                     | H. P. | Volume C.F.M.                                     | H. P. | Volume C.F.M.                                     | H. P. | Volume C.F.M.                                     | H. P. | Volume C.F.M.                                   | H. P. | Volume C.F.M.                                       | H. P. |
|--------|------------------|-----------|--------------------------------|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|
|        |                  |           | Static Pressure Free Discharge |       | Static Pressure 1/4" Water .145 ozs. per sq. inch |       | Static Pressure 3/8" Water .217 ozs. per sq. inch |       | Static Pressure 1/2" Water .289 ozs. per sq. inch |       | Static Pressure 5/8" Water .434 ozs. per sq. inch |       | Static Pressure 1" Water .578 ozs. per sq. inch |       | Static Pressure 1 1/4" Water .878 ozs. per sq. inch |       |
| 156    | 2200             | 0.119     | 8,750                          | 0.210 |   |       |   |       |   |       |   |       |   |       |   |       |
| 170    | 2400             | 0.141     | 9,550                          | 0.275 |   |       |   |       |   |       |   |       |   |       |   |       |
| 184    | 2600             | 0.167     | 10,300                         | 0.35  |   |       |   |       |   |       |   |       |   |       |   |       |
| 198    | 2800             | 0.192     | 11,100                         | 0.44  |   |       |   |       |   |       |   |       |   |       |   |       |
| 212    | 3000             | 0.221     | 12,000                         | 0.51  |   |       |   |       |   |       |   |       |   |       |   |       |
| 226    | 3200             | 0.251     | 12,800                         | 0.65  |   |       |   |       |   |       |   |       |   |       |   |       |
| 240    | 3400             | 0.284     | 13,500                         | 0.78  | 2,550   | 1.45  |   |       |   |       |   |       |   |       |   |       |
| 255    | 3600             | 0.318     | 14,300                         | 0.93  | 4,580   | 1.65  |   |       |   |       |   |       |   |       |   |       |
| 269    | 3800             | 0.354     | 15,100                         | 1.10  | 6,350   | 1.85  |   |       |   |       |   |       |   |       |   |       |
| 283    | 4000             | 0.392     | 15,900                         | 1.25  | 7,520   | 2.10  |   |       |   |       |   |       |   |       |   |       |
| 297    | 4200             | 0.432     | 16,700                         | 1.45  | 8,220   | 2.35  | 3,550   | 2.70  |   |       |   |       |   |       |   |       |
| 311    | 4400             | 0.475     | 17,500                         | 1.70  | 8,830   | 2.60  | 5,750   | 3.00  |   |       |   |       |   |       |   |       |
| 325    | 4600             | 0.519     | 18,300                         | 1.95  | 9,380   | 2.90  | 7,330   | 3.30  |   |       |   |       |   |       |   |       |
| 340    | 4800             | 0.565     | 19,100                         | 2.20  | 9,930   | 3.20  | 8,710   | 3.80  | 3,440   | 4.15  |   |       |   |       |   |       |
| 354    | 5000             | 0.613     | 19,900                         | 2.50  | 10,500  | 3.50  | 9,630   | 4.05  | 5,810   | 4.45  |   |       |   |       |   |       |
| 372    | 5250             | 0.676     | 20,900                         | 2.90  | 11,500  | 3.95  | 10,500  | 4.55  | 8,130   | 5.1   |   |       |   |       |   |       |
| 389    | 5500             | 0.741     | 21,900                         | 3.30  | 12,300  | 4.45  | 11,100  | 5.0   | 9,800   | 5.6   |   |       |   |       |   |       |
| 407    | 5750             | 0.810     | 22,900                         | 3.80  | 13,400  | 4.95  | 11,800  | 5.6   | 11,000  | 6.2   | 2,560   | 7.6   |   |       |   |       |
| 425    | 6000             | 0.881     | 23,900                         | 4.30  | 14,300  | 5.6   | 12,500  | 6.1   | 11,800  | 6.8   | 5,830   | 7.9   |   |       |   |       |
| 442    | 6250             | 0.956     | 24,900                         | 4.85  | 15,200  | 6.1   | 13,300  | 6.7   | 12,000  | 7.5   | 8,260   | 8.6   |   |       |   |       |
| 460    | 6500             | 1.035     | 25,900                         | 5.5   | 16,400  | 6.6   | 14,200  | 7.5   | 13,200  | 8.2   | 10,500  | 9.4   |   |       |   |       |
| 478    | 6750             | 1.119     | 26,900                         | 6.1   |   |       | 15,200  | 8.2   | 14,000  | 8.9   | 12,100  | 10.5  | 4,530   | 12.5  |   |       |
| 495    | 7000             | 1.200     | 27,900                         | 6.8   |   |       |   |       | 14,700  | 9.7   | 13,200  | 11.0  | 7,520   | 13.0  |   |       |
| 530    | 7500             | 1.380     | 29,800                         | 8.4   |   |       |   |       | 16,500  | 11.5  | 14,900  | 13.0  | 12,000  | 14.5  |   |       |
| 566    | 8000             | 1.570     | 31,800                         | 10.0  |   |       |   |       | 18,300  | 13.5  | 16,300  | 15.0  | 15,000  | 17.0  | 2,040   | 22.0  |
| 601    | 8500             | 1.770     | 33,900                         | 12.0  |   |       |   |       | 20,300  | 15.5  | 17,900  | 17.5  | 16,800  | 19.5  | 8,500   | 22.5  |
| 637    | 9000             | 1.985     | 35,800                         | 14.5  |   |       |   |       |   |       | 19,500  | 20    | 18,300  | 22    | 13,300  | 25    |
| 672    | 9500             | 2.21      | 37,800                         | 17    |   |       |   |       |   |       | 21,300  | 23    | 19,700  | 25    | 17,000  | 29    |
| 708    | 10000            | 2.45      | 39,800                         | 20    |   |       |   |       |   |       | 23,200  | 26    | 21,100  | 28    | 19,300  | 33    |

## 60" Sturtevant Disc Fan—Design 1

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in | Static Pressure Free Discharge | Static Pressure 1/4" Water .145 ozs. per sq. inch | Static Pressure 3/8" Water .217 ozs. per sq. inch | Static Pressure 1/2" Water .289 ozs. per sq. inch | Static Pressure 5/8" Water .434 ozs. per sq. inch | Static Pressure 1" Water .578 ozs. per sq. inch | Static Pressure 1 1/4" Water .878 ozs. per sq. inch |      |
|--------|------------------|-----------|--------------------------------|---|---|---|---|---|---|------|
| 140    | 2200             | 0.119     | 10,800                         | 0.26  |   |   |   |   |   |      |
| 153    | 2400             | 0.141     | 11,800                         | 0.34  |   |   |   |   |   |      |
| 166    | 2600             | 0.167     | 12,800                         | 0.43  |   |   |   |   |   |      |
| 178    | 2800             | 0.192     | 13,700                         | 0.54  |   |   |   |   |   |      |
| 191    | 3000             | 0.221     | 14,700                         | 0.66  |   |   |   |   |   |      |
| 204    | 3200             | 0.251     | 15,700                         | 0.80  |   |   |   |   |   |      |
| 216    | 3400             | 0.284     | 16,700                         | 0.96  | 3,140   | 1.80  |   |   |   |      |
| 229    | 3600             | 0.318     | 17,700                         | 1.15  | 5,650   | 2.00  |   |   |   |      |
| 242    | 3800             | 0.354     | 18,700                         | 1.35  | 7,850   | 2.30  |   |   |   |      |
| 255    | 4000             | 0.392     | 19,600                         | 1.55  | 9,250   | 2.60  |   |   |   |      |
| 268    | 4200             | 0.432     | 20,600                         | 1.80  | 10,100  | 2.90  | 4,370   | 3.35  |   |      |
| 280    | 4400             | 0.475     | 21,600                         | 2.10  | 10,900  | 3.25  | 7,080   | 3.7   |   |      |
| 293    | 4600             | 0.519     | 22,600                         | 2.40  | 11,800  | 3.60  | 9,020   | 4.1   |   |      |
| 306    | 4800             | 0.565     | 23,500                         | 2.70  | 12,200  | 3.90  | 10,700  | 4.6   |   |      |
| 319    | 5000             | 0.613     | 24,500                         | 3.05  | 13,000  | 4.35  | 11,900  | 5.0   | 4,230   | 5.1  |
| 334    | 5250             | 0.676     | 25,800                         | 3.55  | 14,100  | 4.9   | 12,800  | 5.6   | 7,160   | 5.5  |
| 350    | 5500             | 0.741     | 27,000                         | 4.10  | 15,200  | 5.5   | 13,700  | 6.2   | 10,000  | 6.2  |
| 366    | 5750             | 0.810     | 28,200                         | 4.65  | 16,500  | 6.1   | 14,500  | 6.9   | 12,100  | 6.9  |
| 382    | 6000             | 0.881     | 29,400                         | 5.3   | 17,700  | 6.8   | 15,400  | 7.5   | 13,500  | 7.6  |
| 398    | 6250             | 0.956     | 30,700                         | 6.0   | 18,800  | 7.5   | 16,300  | 8.3   | 14,600  | 8.4  |
| 414    | 6500             | 1.035     | 31,900                         | 6.8   | 20,100  | 8.2   | 17,500  | 9.2   | 15,600  | 9.3  |
| 430    | 6750             | 1.119     | 33,100                         | 7.5   |   |   | 18,700  | 10  | 10,200  | 10.5 |
| 446    | 7000             | 1.200     | 34,400                         | 8.4   |   |   |   |   | 12,900  | 11.5 |
| 478    | 7500             | 1.380     | 36,800                         | 10.5  |   |   |   |   | 14,900  | 12.5 |
| 510    | 8000             | 1.570     | 39,200                         | 12.5  |   |   |   |   | 16,200  | 13.5 |
| 541    | 8500             | 1.770     | 41,700                         | 15  |   |   |   |   | 18,400  | 16.0 |
| 573    | 9000             | 1.985     | 44,200                         | 18  |   |   |   |   | 20,300  | 18.0 |
| 605    | 9500             | 2.21      | 46,600                         | 21  |   |   |   |   | 22,500  | 20.5 |
| 636    | 10000            | 2.45      | 49,000                         | 25  |   |   |   |   | 25,000  | 24   |
|        |                  |           |                                |   |   |   |   |   | 28,700  | 28   |
|        |                  |           |                                |   |   |   |   |   | 32  | 31   |
|        |                  |           |                                |   |   |   |   |   | 35  | 36   |
|        |                  |           |                                |   |   |   |   |   | 40  |      |

## 66" Sturtevant Disc Fan—Design 1

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure Free Discharge | Static Pressure 1/4" Water .145 ozs. per sq. inch | Static Pressure 3/8" Water .217 ozs. per sq. inch | Static Pressure 1/2" Water .289 ozs. per sq. inch | Static Pressure 5/8" Water .334 ozs. per sq. inch | Static Pressure 1" Water .378 ozs. per sq. inch | Static Pressure 1 1/4" Water .478 ozs. per sq. inch |
|--------|------------------|------------------|--------------------------------|---|---|---|---|---|---|
| 127    | 2200             | 0.119            | 13,100                         | 0.315   |   |   |   |   |   |
| 139    | 2400             | 0.141            | 14,300                         | 0.415   |   |   |   |   |   |
| 150    | 2600             | 0.167            | 15,500                         | 0.53  |   |   |   |   |   |
| 162    | 2800             | 0.192            | 16,700                         | 0.66  |   |   |   |   |   |
| 174    | 3000             | 0.221            | 17,900                         | 0.81  |   |   |   |   |   |
| 185    | 3200             | 0.251            | 19,100                         | 0.98  |   |   |   |   |   |
| 197    | 3400             | 0.284            | 20,300                         | 1.15  |   |   |   |   |   |
| 208    | 3600             | 0.318            | 21,400                         | 1.40  | 3,800 2.20  |   |   |   |   |
| 220    | 3800             | 0.354            | 22,600                         | 1.65  | 6,860 2.45  |   |   |   |   |
| 231    | 4000             | 0.392            | 23,800                         | 1.90  |   |   |   |   |   |
| 243    | 4200             | 0.432            | 25,000                         | 2.20  |   |   |   |   |   |
| 255    | 4400             | 0.475            | 26,200                         | 2.56  | 13,200 3.90                                       | 5,310 4.05  |   |   |   |
| 266    | 4600             | 0.519            | 27,400                         | 2.90  | 14,000 4.35                                       | 8,500 4.50  |   |   |   |
| 278    | 4800             | 0.565            | 28,600                         | 3.30  | 14,900 4.76                                       | 11,000 4.95                                       |   |   |   |
| 289    | 5000             | 0.613            | 29,800                         | 3.75  | 15,800 5.3  | 13,000 5.7  | 5,140 6.20  |   |   |
| 304    | 5250             | 0.676            | 31,300                         | 4.35  | 17,200 5.9  | 14,400 6.1  | 8,700 6.70  |   |   |
| 318    | 5500             | 0.741            | 32,800                         | 4.95  | 18,500 6.7  | 15,700 6.8  | 12,200 7.51                                       |   |   |
| 333    | 5750             | 0.810            | 34,200                         | 5.7   | 16,600 7.5  | 14,700 8.4  |   |   |   |
| 347    | 6000             | 0.881            | 35,700                         | 6.5   | 20,000 7.4  | 16,400 9.3  | 3,810 11.5  |   |   |
| 361    | 6250             | 0.956            | 37,200                         | 7.3   | 21,400 8.3  | 17,700 9.2  | 8,710 12.0  |   |   |
| 375    | 6500             | 1.035            | 38,700                         | 8.2   | 22,800 9.2  | 19,800 10.0                                       | 12,400 13.0                                       |   |   |
| 390    | 6750             | 1.119            | 40,200                         | 9.2   | 24,400 9.9  | 21,300 11.0                                       | 15,600 14.0                                       |   |   |
| 405    | 7000             | 1.200            | 41,700                         | 10.0  | 22,700 12.5                                       | 20,900 13.5                                       | 18,100 15.5                                       | 6,770 18.5                                      |   |
| 434    | 7500             | 1.380            | 44,700                         | 12.5  |   | 22,000 14.5                                       | 19,700 16.5                                       | 11,300 19.5                                     |   |
| 462    | 8000             | 1.570            | 47,700                         | 15.5  |   | 24,600 17.0                                       | 22,300 19.5                                       | 17,800 22                                       |   |
| 491    | 8500             | 1.770            | 50,600                         | 18.5  |   | 27,200 20.0                                       | 24,400 22.5                                       | 22,500 25                                       | 3,050 33  |
| 520    | 9000             | 1.985            | 53,600                         | 21.5  |   | 30,400 23.5                                       | 26,800 26   | 25,100 29                                       | 12,800 34   |
| 549    | 9500             | 2.21             | 56,600                         | 26  |   |   | 29,200 30   | 27,300 33                                       | 19,800 38   |
| 577    | 10000            | 2.45             | 59,500                         | 30  |   |   | 31,600 34   | 29,400 37                                       | 25,300 43   |
|        |                  |                  |                                |   |   |   | 34,800 39   | 31,600 42                                       | 28,800 49   |

## 72" Sturtevant Disc Fan—Design 1

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.                  | H. P. | Volume C.F.M.                                     | H. P.       | Volume C.F.M.                                     | H. P.       | Volume C.F.M.                                     | H. P.     | Volume C.F.M.                                     | H. P.     | Volume C.F.M.                                   | H. P. | Volume C.F.M.                                       | H. P. |
|--------|------------------|------------------|--------------------------------|-------|---|-------------|---|-------------|---|-----------|---|-----------|---|-------|---|-------|
|        |                  |                  | Static Pressure Free Discharge |       | Static Pressure 1/4" Water .145 ozs. per sq. inch |             | Static Pressure 3/8" Water .217 ozs. per sq. inch |             | Static Pressure 1/2" Water .289 ozs. per sq. inch |           | Static Pressure 5/8" Water .334 ozs. per sq. inch |           | Static Pressure 1" Water .378 ozs. per sq. inch |       | Static Pressure 1 1/4" Water .478 ozs. per sq. inch |       |
| 117    | 2200             | 0.119            | 15,600                         | 0.38  |   |             |   |             |   |           |   |           |   |       |   |       |
| 127    | 2400             | 0.141            | 17,000                         | 0.49  |   |             |   |             |   |           |   |           |   |       |   |       |
| 138    | 2600             | 0.167            | 18,400                         | 0.63  |   |             |   |             |   |           |   |           |   |       |   |       |
| 148    | 2800             | 0.192            | 19,800                         | 0.78  |   |             |   |             |   |           |   |           |   |       |   |       |
| 159    | 3000             | 0.221            | 21,300                         | 0.96  |   |             |   |             |   |           |   |           |   |       |   |       |
| 170    | 3200             | 0.251            | 22,700                         | 1.15  |   |             |   |             |   |           |   |           |   |       |   |       |
| 180    | 3400             | 0.284            | 24,100                         | 1.40  | 4,520 2.60  |             |   |             |   |           |   |           |   |       |   |       |
| 191    | 3600             | 0.318            | 25,500                         | 1.65  | 8,150 2.90  |             |   |             |   |           |   |           |   |       |   |       |
| 202    | 3800             | 0.354            | 26,900                         | 1.95  | 11,300 3.30                                       |             |   |             |   |           |   |           |   |       |   |       |
| 212    | 4000             | 0.392            | 28,300                         | 2.25  | 13,400 3.74                                       |             |   |             |   |           |   |           |   |       |   |       |
| 223    | 4200             | 0.432            | 29,800                         | 2.60  | 14,600 4.20                                       | 6,320 4.85  |   |             |   |           |   |           |   |       |   |       |
| 233    | 4400             | 0.475            | 31,200                         | 3.05  | 15,700 4.65                                       | 10,200 5.4  |   |             |   |           |   |           |   |       |   |       |
| 244    | 4600             | 0.519            | 32,600                         | 3.45  | 16,700 5.2  | 13,000 5.9  |   |             |   |           |   |           |   |       |   |       |
| 254    | 4800             | 0.565            | 34,000                         | 3.90  | 17,700 5.7  | 15,500 6.8  | 6,120 7.4   |             |   |           |   |           |   |       |   |       |
| 265    | 5000             | 0.613            | 35,400                         | 4.45  | 18,800 6.3  | 17,100 7.2  | 10,300 7.9  |             |   |           |   |           |   |       |   |       |
| 278    | 5250             | 0.676            | 37,200                         | 5.1   | 20,400 7.0  | 18,600 8.1  | 14,500 9.0  |             |   |           |   |           |   |       |   |       |
| 292    | 5500             | 0.741            | 38,900                         | 5.9   | 21,900 7.9  | 19,800 8.9  | 17,500 10.0                                       |             |   |           |   |           |   |       |   |       |
| 305    | 5750             | 0.810            | 40,700                         | 6.7   | 23,800 8.8  | 21,000 9.9  | 19,500 11.0                                       | 4,570 13.5  |   |           |   |           |   |       |   |       |
| 318    | 6000             | 0.881            | 42,500                         | 7.7   | 25,500 9.9  | 22,300 11.0 | 21,000 12.0                                       | 10,400 14.0 |   |           |   |           |   |       |   |       |
| 331    | 6250             | 0.956            | 44,300                         | 8.6   | 27,100 11   | 23,500 12.0 | 22,500 13.5                                       | 14,700 15.0 |   |           |   |           |   |       |   |       |
| 345    | 6500             | 1.035            | 46,000                         | 9.7   | 29,000 12   | 25,300 13.5 | 23,500 14.5                                       | 18,600 17.0 |   |           |   |           |   |       |   |       |
| 358    | 6750             | 1.119            | 47,800                         | 11.0  |   | 26,900 14.5 |   | 21,500 18.5 | 8,050 22  |           |   |           |   |       |   |       |
| 371    | 7000             | 1.200            | 49,600                         | 12.0  |   |             |   | 24,800 19.5 | 13,400 23   |           |   |           |   |       |   |       |
| 388    | 7500             | 1.380            | 53,200                         | 15.0  |   |             |   | 26,200 20.5 | 23,400 26   |           |   |           |   |       |   |       |
| 425    | 8000             | 1.570            | 56,700                         | 18.0  |   |             |   | 29,300 24   | 26,500 28   |           |   |           |   |       |   |       |
| 450    | 8500             | 1.770            | 60,200                         | 21.5  |   |             |   | 32,400 28   | 31,800 31   | 20,000 27 | 26,700 30   | 3,630 39  |   |       |   |       |
| 476    | 9000             | 1.985            | 63,900                         | 26    |   |             |   | 36,200      | 34,700 36   | 31,800 34 | 29,900 34   | 15,200 40 |   |       |   |       |
| 504    | 9500             | 2.21             | 67,200                         | 30    |   |             |   |             | 38,000 41   | 34,700 38 | 32,500 39   | 23,600 45 |   |       |   |       |
| 530    | 10000            | 2.45             | 70,800                         | 35    |   |             |   |             | 41,300 47   | 38,000 41 | 35,000 44   | 30,200 52 |   |       |   |       |
|        |                  |                  |                                |       |   |             |   |             |   |           |   |           | 34,200 58                                       |       |   |       |

## 78" Sturtevant Disc Fan—Design 1

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.                  | H. P. | Volume C.F.M.                                     | H. P. | Volume C.F.M.                                     | H. P. | Volume C.F.M.                                     | H. P. | Volume C.F.M.                                     | H. P. | Volume C.F.M.                                   | H. P. | Volume C.F.M.                                       | H. P. |
|--------|------------------|------------------|--------------------------------|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|
|        |                  |                  | Static Pressure Free Discharge |       | Static Pressure 1/4" Water .145 ozs. per sq. inch |       | Static Pressure 3/8" Water .217 ozs. per sq. inch |       | Static Pressure 1/2" Water .289 ozs. per sq. inch |       | Static Pressure 5/8" Water .343 ozs. per sq. inch |       | Static Pressure 1" Water .578 ozs. per sq. inch |       | Static Pressure 1 1/2" Water .878 ozs. per sq. inch |       |
| 108    | 2200             | 0.119            | 18,300                         | 0.445 |   |       |   |       |   |       |   |       |   |       |   |       |
| 117    | 2400             | 0.141            | 19,900                         | 0.57  |   |       |   |       |   |       |   |       |   |       |   |       |
| 127    | 2600             | 0.167            | 21,600                         | 0.73  |   |       |   |       |   |       |   |       |   |       |   |       |
| 137    | 2800             | 0.192            | 23,300                         | 0.92  |   |       |   |       |   |       |   |       |   |       |   |       |
| 147    | 3000             | 0.221            | 25,000                         | 1.10  |   |       |   |       |   |       |   |       |   |       |   |       |
| 156    | 3200             | 0.251            | 26,600                         | 1.35  |   |       |   |       |   |       |   |       |   |       |   |       |
| 166    | 3400             | 0.284            | 28,300                         | 1.65  | 5,310   | 3.05  |   |       |   |       |   |       |   |       |   |       |
| 176    | 3600             | 0.318            | 30,000                         | 1.95  | 9,580   | 3.40  |   |       |   |       |   |       |   |       |   |       |
| 186    | 3800             | 0.354            | 31,600                         | 2.30  | 13,300  | 3.85  |   |       |   |       |   |       |   |       |   |       |
| 195    | 4000             | 0.392            | 33,200                         | 2.65  | 15,700  | 4.4   |   |       |   |       |   |       |   |       |   |       |
| 205    | 4200             | 0.432            | 34,900                         | 3.10  | 17,200  | 4.9   | 7,410   | 5.7   |   |       |   |       |   |       |   |       |
| 215    | 4400             | 0.475            | 36,600                         | 3.55  | 18,500  | 5.5   | 12,000  | 6.3   |   |       |   |       |   |       |   |       |
| 225    | 4600             | 0.519            | 38,200                         | 4.05  | 19,600  | 6.1   | 15,300  | 6.9   |   |       |   |       |   |       |   |       |
| 234    | 4800             | 0.565            | 39,800                         | 4.6   | 20,700  | 6.6   | 18,200  | 8.0   | 7,180   | 8.7   |   |       |   |       |   |       |
| 244    | 5000             | 0.613            | 41,600                         | 5.2   | 22,000  | 7.4   | 20,100  | 8.5   | 12,100  | 9.3   |   |       |   |       |   |       |
| 257    | 5250             | 0.676            | 43,800                         | 6.0   | 23,900  | 8.3   | 21,800  | 9.5   | 17,000  | 10.5  |   |       |   |       |   |       |
| 269    | 5500             | 0.741            | 45,700                         | 6.9   | 25,700  | 9.3   | 23,200  | 10.5  | 20,500  | 11.5  |   |       |   |       |   |       |
| 281    | 5750             | 0.810            | 47,800                         | 7.9   | 27,900  | 10.5  | 24,600  | 11.5  | 22,900  | 13.0  | 5,350   | 16.0  |   |       |   |       |
| 293    | 6000             | 0.881            | 50,000                         | 9.0   | 29,900  | 11.5  | 26,100  | 13.0  | 24,700  | 14.0  | 12,200  | 16.5  |   |       |   |       |
| 306    | 6250             | 0.956            | 52,000                         | 10.0  | 31,800  | 13    | 27,600  | 14.0  | 26,400  | 15.5  | 17,200  | 18.0  |   |       |   |       |
| 318    | 6500             | 1.035            | 54,000                         | 11.5  | 34,000  | 14    | 29,700  | 15.5  | 27,600  | 17.0  | 21,800  | 19.5  |   |       |   |       |
| 330    | 6750             | 1.119            | 56,100                         | 13.0  |   |       | 31,600  | 17    | 29,100  | 18.5  | 25,200  | 21.5  | 9,430   | 26    |   |       |
| 343    | 7000             | 1.200            | 58,200                         | 14.0  |   |       |   |       | 30,700  | 20    | 27,500  | 23    | 15,700  | 27    |   |       |
| 368    | 7500             | 1.380            | 62,300                         | 17.5  |   |       |   |       | 34,400  | 24    | 31,100  | 27    | 24,900  | 31    |   |       |
| 393    | 8000             | 1.570            | 66,500                         | 21.5  |   |       |   |       | 38,100  | 28    | 34,000  | 32    | 31,300  | 35    | 4,250   | 45    |
| 417    | 8500             | 1.770            | 70,700                         | 26    |   |       |   |       | 42,300  | 33    | 37,300  | 36    | 35,000  | 40    | 17,800  | 47    |
| 442    | 9000             | 1.985            | 74,800                         | 30    |   |       |   |       |   |       | 40,700  | 42    | 38,100  | 46    | 27,700  | 52    |
| 466    | 9500             | 2.21             | 78,900                         | 36    |   |       |   |       |   |       | 44,500  | 48    | 41,100  | 52    | 35,400  | 60    |
| 490    | 10000            | 2.45             | 83,000                         | 42    |   |       |   |       |   |       | 48,500  | 54    | 44,000  | 58    | 40,200  | 68    |

## 84" Sturtevant Disc Fan—Design 1

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure Free Discharge | Static Pressure 1/4" Water .145 ozs. per sq. inch | Static Pressure 3/8" Water .217 ozs. per sq. inch | Static Pressure 1/2" Water .289 ozs. per sq. inch | Static Pressure 5/8" Water .343 ozs. per sq. inch | Static Pressure 1" Water .578 ozs. per sq. inch | Static Pressure 1 1/2" Water .878 ozs. per sq. inch |
|--------|------------------|------------------|--------------------------------|---|---|---|---|---|---|
| 100    | 2200             | 0.119            | 21,200                         | 0.52  |   |   |   |   |   |
| 109    | 2400             | 0.141            | 23,100                         | 0.67  |   |   |   |   |   |
| 118    | 2600             | 0.167            | 25,000                         | 0.85  |   |   |   |   |   |
| 127    | 2800             | 0.192            | 27,000                         | 1.05  |   |   |   |   |   |
| 136    | 3000             | 0.221            | 28,900                         | 1.30  |   |   |   |   |   |
| 145    | 3200             | 0.251            | 30,800                         | 1.60  |   |   |   |   |   |
| 155    | 3400             | 0.284            | 32,700                         | 1.90  | 6,150   | 3.55  |   |   |   |
| 164    | 3600             | 0.318            | 34,700                         | 2.25  | 11,100  | 3.95  |   |   |   |
| 173    | 3800             | 0.354            | 36,600                         | 2.65  | 15,400  | 4.5   |   |   |   |
| 182    | 4000             | 0.392            | 38,500                         | 3.10  | 18,200  | 5.1   |   |   |   |
| 191    | 4200             | 0.432            | 40,400                         | 3.55  | 19,900  | 5.7   | 8,590   | 6.6   |   |
| 200    | 4400             | 0.475            | 42,300                         | 4.15  | 21,400  | 6.4   | 13,900  | 7.3   |   |
| 209    | 4600             | 0.519            | 44,300                         | 4.7   | 22,700  | 7.0   | 17,700  | 8.0   |   |
| 218    | 4800             | 0.565            | 46,300                         | 5.3   | 24,000  | 7.7   | 21,100  | 9.3   |   |
| 228    | 5000             | 0.613            | 48,200                         | 6.0   | 25,500  | 8.5   | 23,300  | 9.8   | 8,310   |
| 239    | 5250             | 0.676            | 50,700                         | 7.0   | 27,700  | 9.6   | 25,300  | 11.0  | 10.0  |
| 250    | 5500             | 0.741            | 53,000                         | 8.0   | 29,800  | 11.0  | 26,900  | 12.0  | 11.0  |
| 262    | 5750             | 0.810            | 55,300                         | 9.2   | 32,400  | 12.0  | 28,600  | 13.5  | 13.5  |
| 272    | 6000             | 0.881            | 57,800                         | 10.5  | 34,600  | 13.5  | 30,300  | 15  | 15  |
| 284    | 6250             | 0.956            | 60,200                         | 11.5  | 36,800  | 15  | 32,000  | 16  | 16  |
| 296    | 6500             | 1.035            | 62,600                         | 13.0  | 39,400  | 16  | 34,400  | 18  | 18  |
| 307    | 6750             | 1.119            | 65,000                         | 15.0  |   |   | 36,600  | 20  | 20  |
| 318    | 7000             | 1.200            | 67,400                         | 16.5  |   |   |   |   |   |
| 341    | 7500             | 1.380            | 72,300                         | 20.0  |   |   |   |   |   |
| 364    | 8000             | 1.570            | 77,100                         | 24.5  |   |   |   |   |   |
| 386    | 8500             | 1.770            | 81,800                         | 29  |   |   |   |   |   |
| 409    | 9000             | 1.985            | 86,700                         | 35  |   |   |   |   |   |
| 432    | 9500             | 2.21             | 91,500                         | 41  |   |   |   |   |   |
| 455    | 10000            | 2.45             | 96,200                         | 48  |   |   |   |   |   |

## 96" Sturtevant Disc Fan—Design 1

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed<br>F.P.M. | S.N.D.<br>in<br>inches | Volume  | H. P.                             | Volume | H. P.                                   | Volume | H. P.                                   | Volume | H. P.                                   | Volume | H. P.                                 | Volume | H. P.                                     | Volume | H. P.                                     |
|--------|---------------------|------------------------|---------|-----------------------------------|--------|---|--------|---|--------|---|--------|---------------------------------------|--------|---|--------|---|
|        |                     |                        | C.F.M.  | Static Pressure<br>Free Discharge | C.F.M. | 1/4" Water<br>.145 ozs. per<br>sq. inch | C.F.M. | 1/2" Water<br>.217 ozs. per<br>sq. inch | C.F.M. | 3/4" Water<br>.289 ozs. per<br>sq. inch | C.F.M. | 1" Water<br>.378 ozs. per<br>sq. inch | C.F.M. | 1 1/4" Water<br>.434 ozs. per<br>sq. inch | C.F.M. | 1 1/2" Water<br>.478 ozs. per<br>sq. inch |
| 88     | 2200                | 0.119                  | 27,700  | 0.67                              |        |   |        |   |        |   |        |                                       |        |   |        |   |
| 96     | 2400                | 0.141                  | 30,200  | 0.87                              |        |   |        |   |        |   |        |                                       |        |   |        |   |
| 103    | 2600                | 0.167                  | 32,700  | 1.10                              |        |   |        |   |        |   |        |                                       |        |   |        |   |
| 111    | 2800                | 0.192                  | 35,200  | 1.40                              |        |   |        |   |        |   |        |                                       |        |   |        |   |
| 119    | 3000                | 0.221                  | 37,700  | 1.70                              |        |   |        |   |        |   |        |                                       |        |   |        |   |
| 127    | 3200                | 0.251                  | 40,300  | 2.05                              |        |   |        |   |        |   |        |                                       |        |   |        |   |
| 135    | 3400                | 0.284                  | 42,700  | 2.50                              | 8,040  | 4.65                                    |        |   |        |   |        |                                       |        |   |        |   |
| 143    | 3600                | 0.318                  | 45,300  | 2.95                              | 14,500 | 5.2                                     |        |   |        |   |        |                                       |        |   |        |   |
| 151    | 3800                | 0.354                  | 47,800  | 3.45                              | 20,100 | 5.9                                     |        |   |        |   |        |                                       |        |   |        |   |
| 159    | 4000                | 0.392                  | 50,300  | 4.05                              | 23,800 | 6.7                                     |        |   |        |   |        |                                       |        |   |        |   |
| 167    | 4200                | 0.432                  | 52,800  | 4.65                              | 25,900 | 7.4                                     | 11,200 | 8.6                                     |        |   |        |                                       |        |   |        |   |
| 175    | 4400                | 0.475                  | 55,300  | 5.4                               | 27,900 | 8.3                                     | 18,200 | 9.6                                     |        |   |        |                                       |        |   |        |   |
| 183    | 4600                | 0.519                  | 57,800  | 6.1                               | 29,600 | 9.2                                     | 23,200 | 10.5                                    |        |   |        |                                       |        |   |        |   |
| 191    | 4800                | 0.565                  | 60,400  | 7.0                               | 31,400 | 10.0                                    | 27,600 | 12.0                                    | 10,900 | 13.0                                    |        |                                       |        |   |        |   |
| 198    | 5000                | 0.613                  | 62,800  | 7.9                               | 33,300 | 11.0                                    | 30,500 | 13.0                                    | 18,400 | 14.0                                    |        |                                       |        |   |        |   |
| 209    | 5250                | 0.676                  | 66,200  | 9.1                               | 36,200 | 12.5                                    | 33,000 | 14.5                                    | 25,600 | 16.0                                    |        |                                       |        |   |        |   |
| 218    | 5500                | 0.741                  | 69,200  | 10.5                              | 39,000 | 14.0                                    | 35,100 | 16.0                                    | 31,000 | 17.5                                    |        |                                       |        |   |        |   |
| 228    | 5750                | 0.810                  | 72,300  | 12.0                              | 42,300 | 15.5                                    | 37,300 | 17.5                                    | 34,700 | 19.5                                    | 8,100  | 24                                    |        |   |        |   |
| 239    | 6000                | 0.881                  | 75,500  | 13.5                              | 45,300 | 17.5                                    | 39,600 | 19.5                                    | 37,400 | 21.5                                    | 18,400 | 25                                    |        |   |        |   |
| 248    | 6250                | 0.956                  | 78,700  | 15.5                              | 48,100 | 19.5                                    | 41,800 | 21.0                                    | 40,000 | 23.5                                    | 26,100 | 27                                    |        |   |        |   |
| 259    | 6500                | 1.035                  | 81,700  | 17.5                              | 51,600 | 21                                      | 45,000 | 23.5                                    | 41,800 | 26                                      | 33,000 | 30                                    |        |   |        |   |
| 268    | 6750                | 1.119                  | 84,900  | 19.5                              |        |   | 47,800 | 26                                      | 44,100 | 28                                      | 38,200 | 33                                    | 14,300 | 39  |        |   |
| 278    | 7000                | 1.200                  | 88,200  | 21.5                              |        |   |        |   | 46,400 | 31                                      | 41,600 | 35                                    | 23,800 | 41  |        |   |
| 298    | 7500                | 1.380                  | 94,300  | 26                                |        |   |        |   | 52,100 | 36                                      | 47,200 | 41                                    | 37,800 | 46  |        |   |
| 318    | 8000                | 1.570                  | 101,000 | 32                                |        |   |        |   | 57,700 | 42                                      | 51,600 | 48                                    | 47,500 | 54  | 6,440  | 70  |
| 338    | 8500                | 1.770                  | 107,000 | 39                                |        |   |        |   | 64,200 | 50                                      | 56,600 | 56                                    | 53,000 | 60  | 26,900 | 70  |
| 350    | 9000                | 1.985                  | 113,000 | 46                                |        |   |        |   |        |   | 61,600 | 64                                    | 57,800 | 70  | 41,800 | 80  |
| 378    | 9500                | 2.21                   | 120,000 | 54                                |        |   |        |   |        |   | 67,600 | 72                                    | 62,300 | 78  | 53,500 | 92  |
| 397    | 10000               | 2.45                   | 126,000 | 62                                |        |   |        |   |        |   | 73,500 | 82                                    | 66,700 | 90  | 61,000 | 100                                       |

## 108" Sturtevant Disc Fan—Design 1

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed<br>F.P.M. | S.N.D.<br>in<br>inches | Static Pressure<br>Free Discharge | Static Pressure<br>1/4" Water<br>.145 ozs. per<br>sq. inch | Static Pressure<br>1/2" Water<br>.217 ozs. per<br>sq. inch | Static Pressure<br>3/4" Water<br>.289 ozs. per<br>sq. inch | Static Pressure<br>1" Water<br>.378 ozs. per<br>sq. inch | Static Pressure<br>1 1/4" Water<br>.434 ozs. per<br>sq. inch | Static Pressure<br>1 1/2" Water<br>.478 ozs. per<br>sq. inch | Static Pressure<br>1 3/4" Water<br>.518 ozs. per<br>sq. inch | Static Pressure<br>2" Water<br>.578 ozs. per<br>sq. inch |
|--------|---------------------|------------------------|-----------------------------------|--|--|--|--|--|--|--|--|
| 78     | 2200                | 0.119                  | 35,000                            | 0.85   |  |  |  |  |  |  |  |
| 85     | 2400                | 0.141                  | 38,200                            | 1.10   |  |  |  |  |  |  |  |
| 92     | 2600                | 0.167                  | 41,300                            | 1.40   |  |  |  |  |  |  |  |
| 99     | 2800                | 0.192                  | 44,500                            | 1.75   |  |  |  |  |  |  |  |
| 106    | 3000                | 0.221                  | 47,800                            | 2.15   |  |  |  |  |  |  |  |
| 113    | 3200                | 0.251                  | 50,900                            | 2.60   |  |  |  |  |  |  |  |
| 120    | 3400                | 0.284                  | 54,200                            | 3.10   | 10,200   | 5.9  |  |  |  |  |  |
| 130    | 3600                | 0.318                  | 57,200                            | 3.70   | 18,300   | 6.5  |  |  |  |  |  |
| 136    | 3800                | 0.354                  | 60,400                            | 4.35   | 25,400   | 7.4  |  |  |  |  |  |
| 142    | 4000                | 0.392                  | 63,600                            | 5.1  | 30,000   | 8.4  |  |  |  |  |  |
| 149    | 4200                | 0.432                  | 66,800                            | 5.9  | 32,900   | 9.4  | 14,200   | 11.0   |  |  |  |
| 156    | 4400                | 0.475                  | 70,000                            | 6.8  | 35,300   | 10.5   | 23,000   | 12.0   |  |  |  |
| 163    | 4600                | 0.519                  | 73,300                            | 7.8  | 37,500   | 11.5   | 29,300   | 13.0   |  |  |  |
| 170    | 4800                | 0.565                  | 76,400                            | 8.8  | 39,700   | 12.5   | 34,900   | 15.5   | 13,800   | 16.5   |  |
| 177    | 5000                | 0.613                  | 79,600                            | 9.9  | 42,200   | 14.0   | 38,500   | 16.0   | 23,200   | 18.0   |  |
| 186    | 5250                | 0.676                  | 83,600                            | 11.5   | 45,800   | 16.0   | 41,800   | 18.0   | 32,500   | 20.0   |  |
| 196    | 5500                | 0.741                  | 87,500                            | 13.0   | 49,300   | 18.0   | 44,400   | 20.0   | 39,300   | 22.5   |  |
| 204    | 5750                | 0.810                  | 91,400                            | 15.0   | 53,500   | 20.0   | 47,200   | 22.5   | 43,900   | 25   |  |
| 213    | 6000                | 0.881                  | 95,500                            | 17.0   | 57,300   | 22.0   | 50,000   | 24.5   | 47,300   | 27   |  |
| 222    | 6250                | 0.956                  | 99,500                            | 19.5   | 60,800   | 24.5   | 52,800   | 27   | 50,500   | 30   |  |
| 230    | 6500                | 1.035                  | 104,000                           | 22.0   | 65,200   | 26   | 56,800   | 30   | 52,900   | 33   |  |
| 239    | 6750                | 1.119                  | 108,000                           | 24.5   |  |  | 60,600   | 33   | 55,800   | 36   |  |
| 248    | 7000                | 1.200                  | 111,000                           | 27   |  |  |  |  | 58,800   | 39   |  |
| 266    | 7500                | 1.380                  | 119,000                           | 34   |  |  |  |  | 65,800   | 46   |  |
| 283    | 8000                | 1.570                  | 127,000                           | 41   |  |  |  |  | 72,900   | 54   |  |
| 301    | 8500                | 1.770                  | 135,000                           | 49   |  |  |  |  | 81,300   | 62   |  |
| 319    | 9000                | 1.985                  | 143,000                           | 58   |  |  |  |  |  |  |  |
| 336    | 9500                | 2.21                   | 151,000                           | 68   |  |  |  |  |  |  |  |
| 354    | 10000               | 2.45                   | 159,000                           | 80   |  |  |  |  |  |  |  |

# 120" Sturtevant Disc Fan—Design 1

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure Free Discharge | Static Pressure 1/4" Water .145 ozs. per sq. inch | Static Pressure 3/4" Water .217 ozs. per sq. inch | Static Pressure 1 1/4" Water .289 ozs. per sq. inch | Static Pressure 1 3/4" Water .434 ozs. per sq. inch | Static Pressure 1" Water .578 ozs. per sq. inch | Static Pressure 1 1/2" Water .875 ozs. per sq. inch |
|--------|------------------|------------------|--------------------------------|---|---|---|---|---|---|
| 70     | 2200             | 0 119            | 43,200                         | 1.05  |   |   |   |   |   |
| 76     | 2400             | 0 141            | 47,200                         | 1.35  |   |   |   |   |   |
| 83     | 2600             | 0 167            | 51,000                         | 1.75  |   |   |   |   |   |
| 89     | 2800             | 0 192            | 55,100                         | 2.15  |   |   |   |   |   |
| 96     | 3000             | 0 221            | 59,000                         | 2.65  |   |   |   |   |   |
| 102    | 3200             | 0 251            | 62,900                         | 3.20  |   |   |   |   |   |
| 108    | 3400             | 0 284            | 66,800                         | 3.85  | 12,500  | 7.3   |   |   |   |
| 115    | 3600             | 0 318            | 70,700                         | 4.6   | 22,600  | 8.1   |   |   |   |
| 121    | 3800             | 0 354            | 74,700                         | 5.4   | 31,400  | 9.2   |   |   |   |
| 127    | 4000             | 0 392            | 78,900                         | 6.3   | 37,100  | 10.5  |   |   |   |
| 134    | 4200             | 0 432            | 82,700                         | 7.3   | 40,600  | 11.5  | 17,500  | 13.5  |   |
| 140    | 4400             | 0 475            | 86,500                         | 8.4   | 43,700  | 13.0  | 28,400  | 15.0  |   |
| 146    | 4600             | 0 519            | 90,400                         | 9.6   | 46,300  | 14.5  | 36,200  | 16.5  |   |
| 153    | 4800             | 0 565            | 94,300                         | 11.0  | 49,100  | 15.5  | 43,000  | 19.0  | 17,000  |
| 159    | 5000             | 0 613            | 98,300                         | 12.5  | 52,100  | 17.5  | 47,600  | 20.0  | 28,700  |
| 167    | 5250             | 0 676            | 103,000                        | 14.0  | 56,700  | 19.5  | 51,500  | 22.5  | 40,000  |
| 175    | 5500             | 0 741            | 108,000                        | 16.5  | 61,000  | 22.0  | 54,800  | 25  | 48,500  |
| 183    | 5750             | 0 810            | 113,000                        | 18.5  | 66,100  | 24.5  | 58,300  | 28  | 54,200  |
| 191    | 6000             | 0 881            | 118,000                        | 21  | 70,800  | 28  | 61,800  | 30  | 58,400  |
| 199    | 6250             | 0 956            | 123,000                        | 24  | 75,200  | 30  | 65,400  | 33  | 62,400  |
| 207    | 6500             | 1 035            | 128,000                        | 27  | 80,500  | 33  | 70,300  | 37  | 65,400  |
| 215    | 6750             | 1 119            | 133,000                        | 30  |   |   | 74,800  | 41  | 68,900  |
| 223    | 7000             | 1 200            | 138,000                        | 34  |   |   |   |   | 72,600  |
| 239    | 7500             | 1 380            | 148,000                        | 42  |   |   |   |   | 81,200  |
| 255    | 8000             | 1 570            | 158,000                        | 50  |   |   |   |   | 90,200  |
| 271    | 8500             | 1 770            | 167,000                        | 60  |   |   |   |   | 100,000   |
| 286    | 9000             | 1 985            | 177,000                        | 72  |   |   |   |   | 100,000   |
| 302    | 9500             | 2 21             | 187,000                        | 84  |   |   |   |   | 105,000   |
| 318    | 10000            | 2 45             | 197,000                        | 98  |   |   |   |   | 110,000   |
|        |                  |                  |                                |   |   |   |   |   | 115,000   |
|        |                  |                  |                                |   |   |   |   |   | 120,000   |
|        |                  |                  |                                |   |   |   |   |   | 125,000   |
|        |                  |                  |                                |   |   |   |   |   | 130,000   |
|        |                  |                  |                                |   |   |   |   |   | 135,000   |
|        |                  |                  |                                |   |   |   |   |   | 140,000   |
|        |                  |                  |                                |   |   |   |   |   | 145,000   |
|        |                  |                  |                                |   |   |   |   |   | 150,000   |
|        |                  |                  |                                |   |   |   |   |   | 155,000   |
|        |                  |                  |                                |   |   |   |   |   | 160,000   |

# **STURTEVANT DISC FANS**

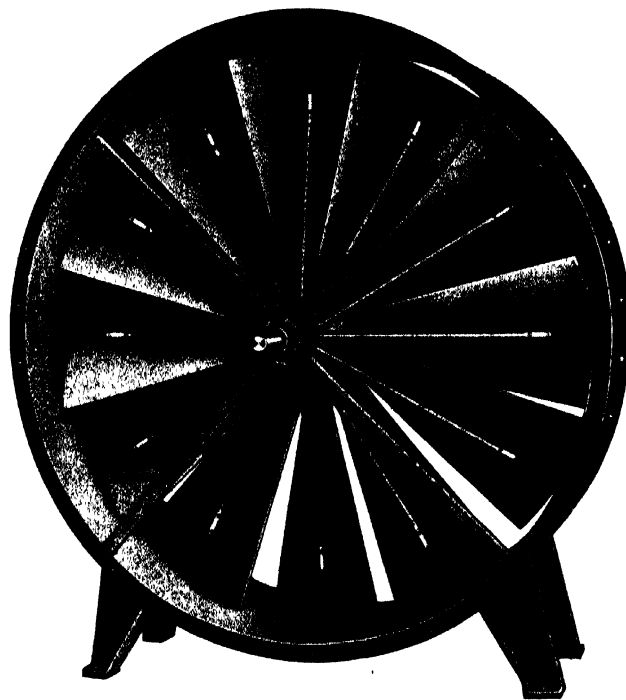
## **Design 2**

**Dimensions, Capacities, Horse Powers**





## Sturtevant Disc Fan—Design 2



Sturtevant Disc Fan—Design 2

## DISC FAN — DESIGN 2

### SPECIFICATIONS

There shall be furnished a Sturtevant.....  
Design 2 Disc Fan having a capacity of.....  
cubic feet per minute against a resistance of  
.....inches water gauge and shall operate at  
approximately.....R. P. M., requiring ap-  
proximately.....B. H. P.

The wheel shall have 12 floats, firmly riveted to  
the hub. To give additional strength, sizes 42-inch  
and larger shall have each float braced with sup-  
ports extending from a special ring on the hub to  
a point near the outer end of the float.

The casing shall consist of steel plate of.....  
gauge suitably supported with angle irons on both  
inlet and outlet sides. Removable feet shall be  
bolted to the fan casing.

## **Sturtevant Disc Fan—Design 2**

### **EXPLANATION OF TABLES**

These fans are not usually applied in connection with piping systems because they are not efficient where a large component of the pressure is static.

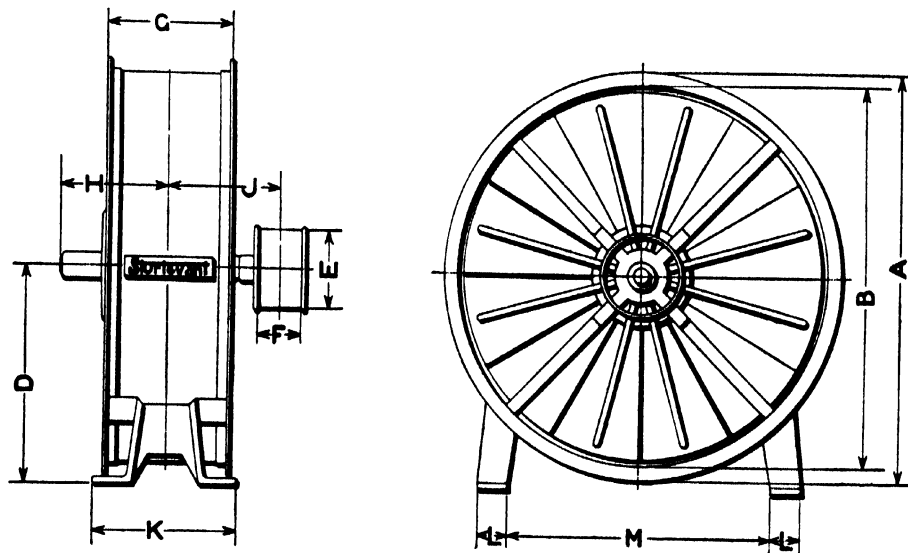
Capacities are therefore measured with fan discharging into a plenum space, the maintained resistance being the static pressure in that space.

## Disc Fan—Design 2

### APPROXIMATE WEIGHTS

| Size | Weight Not Packed |
|------|-------------------|
| 18   | 70                |
| 24   | 100               |
| 30   | 140               |
| 36   | 200               |
| 42   | 260               |
| 48   | 340               |
| 54   | 420               |
| 60   | 520               |
| 66   | 640               |
| 72   | 800               |
| 84   | 1180              |
| 96   | 1600              |
| 108  | 2200              |
| 120  | 2800              |

## Disc Fan — Design 2



| Fan Size | A    | B    | D  | E  | F   | G   | H   | J   | K   | L  | M   |
|----------|------|------|----|----|-----|-----|-----|-----|-----|----|-----|
| 18       | 19½  | 18½  | 11 | 4  | 2½  | 10½ | 6½  | 7½  | 10½ | 1½ | 12½ |
| 24       | 25½  | 24½  | 14 | 6  | 3½  | 10½ | 7½  | 8½  | 10½ | 1½ | 17½ |
| 30       | 33½  | 30½  | 18 | 8  | 4½  | 12½ | 9½  | 10½ | 12½ | 2  | 22  |
| 36       | 39½  | 36½  | 21 | 10 | 4½  | 13½ | 9½  | 10½ | 13½ | 2½ | 25½ |
| 42       | 46   | 43   | 25 | 12 | 5½  | 14½ | 10½ | 12½ | 14½ | 2½ | 29½ |
| 48       | 52   | 49   | 28 | 14 | 5½  | 15½ | 11  | 12½ | 15½ | 2½ | 35½ |
| 54       | 58   | 55   | 31 | 14 | 6½  | 16½ | 11½ | 13½ | 16½ | 3½ | 39½ |
| 60       | 65   | 61   | 35 | 16 | 6½  | 17½ | 11½ | 14  | 17½ | 3½ | 44½ |
| 66       | 71½  | 67½  | 39 | 16 | 7½  | 18½ | 12½ | 15  | 18½ | 3½ | 48½ |
| 72       | 77½  | 73½  | 42 | 18 | 7½  | 22½ | 15½ | 18½ | 22½ | 4½ | 52½ |
| 84       | 90½  | 85½  | 49 | 20 | 8½  | 24½ | 16½ | 19½ | 24½ | 4½ | 61½ |
| 96       | 102½ | 97½  | 55 | 24 | 8½  | 27½ | 18½ | 21½ | 27½ | 5  | 71  |
| 108      | 116½ | 109½ | 62 | 28 | 10½ | 31½ | 21½ | 25½ | 31½ | 5½ | 80  |
| 120      | 128½ | 121½ | 69 | 32 | 12½ | 35  | 24½ | 28½ | 35  | 6  | 87  |

## 18" Sturtevant Disc Fan — Design 2

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed<br>F.P.M. | S.N.D.<br>in<br>inches | Static Pressure<br>Free Discharge | Static Pressure<br>¼" Water<br>.145 ozs. per<br>sq. inch | Static Pressure<br>⅜" Water<br>.217 ozs. per<br>sq. inch | Static Pressure<br>½" Water<br>.289 ozs. per<br>sq. inch | Static Pressure<br>¾" Water<br>.434 ozs. per<br>sq. inch | Static Pressure<br>1" Water<br>.578 ozs. per<br>sq. inch | Static Pressure<br>1½" Water<br>.878 ozs. per<br>sq. inch |
|--------|---------------------|------------------------|-----------------------------------|--|--|--|--|--|---|
| 467    | 2200                | 0.137                  | 1,540                             | 0.018  |  |  |  |  |   |
| 508    | 2400                | 0.164                  | 1,680                             | 0.023  |  |  |  |  |   |
| 552    | 2600                | 0.192                  | 1,820                             | 0.029  |  |  |  |  |   |
| 595    | 2800                | 0.223                  | 1,960                             | 0.036  |  |  |  |  |   |
| 637    | 3000                | 0.256                  | 2,100                             | 0.045  | 138  | 0.076  |  |  |   |
| 680    | 3200                | 0.291                  | 2,240                             | 0.054  | 311  | 0.084  |  |  |   |
| 722    | 3400                | 0.328                  | 2,380                             | 0.065  | 446  | 0.100  |  |  |   |
| 765    | 3600                | 0.368                  | 2,520                             | 0.077  | 570  | 0.115  |  |  |   |
| 807    | 3800                | 0.410                  | 2,660                             | 0.091  | 686  | 0.130  | 289  | 0.150  |   |
| 850    | 4000                | 0.455                  | 2,800                             | 0.105  | 807  | 0.145  | 446  | 0.170  |   |
| 892    | 4200                | 0.501                  | 2,940                             | 0.125  | 935  | 0.160  | 571  | 0.190  | 149   |
| 935    | 4400                | 0.550                  | 3,080                             | 0.140  | 1,050  | 0.175  | 690  | 0.215  | 342   |
| 974    | 4600                | 0.601                  | 3,220                             | 0.160  | 1,180  | 0.195  | 815  | 0.235  | 505   |
| 1020   | 4800                | 0.655                  | 3,360                             | 0.180  | 1,320  | 0.215  | 934  | 0.255  | 629   |
| 1060   | 5000                | 0.710                  | 3,500                             | 0.205  | 1,480  | 0.235  | 1,050  | 0.280  | 735   |
| 1114   | 5250                | 0.784                  | 3,660                             | 0.240  | 1,690  | 0.265  | 1,210  | 0.310  | 883   |
| 1169   | 5500                | 0.859                  | 3,840                             | 0.275  | 1,930  | 0.295  | 1,360  | 0.340  | 1,040   |
| 1220   | 5750                | 0.94                   | 4,020                             | 0.315  | 2,160  | 0.335  | 1,530  | 0.370  | 1,200   |
| 1273   | 6000                | 1.02                   | 4,200                             | 0.360  | 2,420  | 0.375  | 1,700  | 0.410  | 1,360   |
| 1328   | 6250                | 1.11                   | 4,370                             | 0.405  | 2,680  | 0.420  | 1,900  | 0.455  | 1,490   |
| 1380   | 6500                | 1.20                   | 4,550                             | 0.455  | 2,920  | 0.465  | 2,120  | 0.495  | 1,670   |
| 1433   | 6750                | 1.30                   | 4,720                             | 0.51   |  |  | 2,370  | 0.55   | 1,830   |
| 1485   | 7000                | 1.39                   | 4,900                             | 0.57   |  |  | 2,590  | 0.59   | 2,010   |
| 1591   | 7500                | 1.60                   | 5,240                             | 0.70   |  |  | 3,110  | 0.73   | 2,440   |
| 1700   | 8000                | 1.82                   | 5,600                             | 0.84   |  |  |  | 0.90   | 2,920   |
| 1805   | 8500                | 2.05                   | 5,950                             | 1.00   |  |  |  | 1.05   | 3,420   |
| 1910   | 9000                | 2.30                   | 6,300                             | 1.20   |  |  |  | 1.25   | 3,980   |
| 2020   | 9500                | 2.56                   | 6,640                             | 1.40   |  |  |  |  |   |
| 2120   | 10000               | 2.84                   | 6,990                             | 1.65   |  |  |  |  |   |

## 24" Sturtevant Disc Fan — Design 2

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.                  | H. P. | Volume C.F.M.                                     | H. P. | Volume C.F.M.                                     | H. P. | Volume C.F.M.                                     | H. P. | Volume C.F.M.                                     | H. P. | Volume C.F.M.                                   | H. P. | Volume C.F.M.                                       | H. P. |
|--------|------------------|------------------|--------------------------------|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|
|        |                  |                  | Static Pressure Free Discharge |       | Static Pressure 1/4" Water .145 ozs. per sq. inch |       | Static Pressure 3/8" Water .217 ozs. per sq. inch |       | Static Pressure 1/2" Water .289 ozs. per sq. inch |       | Static Pressure 3/4" Water .434 ozs. per sq. inch |       | Static Pressure 1" Water .578 ozs. per sq. inch |       | Static Pressure 1 1/4" Water .878 ozs. per sq. inch |       |
| 351    | 2200             | 0.137            | 2,730                          | 0.031 |   |       |   |       |   |       |   |       |   |       |   |       |
| 382    | 2400             | 0.164            | 2,980                          | 0.041 |   |       |   |       |   |       |   |       |   |       |   |       |
| 415    | 2600             | 0.192            | 3,230                          | 0.052 |   |       |   |       |   |       |   |       |   |       |   |       |
| 446    | 2800             | 0.223            | 3,480                          | 0.065 |   |       |   |       |   |       |   |       |   |       |   |       |
| 478    | 3000             | 0.256            | 3,720                          | 0.079 | 245   | 0.135 |   |       |   |       |   |       |   |       |   |       |
| 508    | 3200             | 0.291            | 3,970                          | 0.096 | 552   | 0.150 |   |       |   |       |   |       |   |       |   |       |
| 541    | 3400             | 0.328            | 4,220                          | 0.115 | 791   | 0.180 |   |       |   |       |   |       |   |       |   |       |
| 575    | 3600             | 0.368            | 4,470                          | 0.135 | 1,010   | 0.205 |   |       |   |       |   |       |   |       |   |       |
| 605    | 3800             | 0.410            | 4,710                          | 0.160 | 1,220   | 0.230 | 514   | 0.265 |   |       |   |       |   |       |   |       |
| 637    | 4000             | 0.455            | 4,960                          | 0.190 | 1,430   | 0.260 | 791   | 0.300 |   |       |   |       |   |       |   |       |
| 670    | 4200             | 0.501            | 5,210                          | 0.215 | 1,660   | 0.285 | 1,010   | 0.340 | 264   | 0.36  |   |       |   |       |   |       |
| 700    | 4400             | 0.550            | 5,460                          | 0.250 | 1,860   | 0.315 | 1,230   | 0.380 | 608   | 0.41  |   |       |   |       |   |       |
| 734    | 4600             | 0.601            | 5,710                          | 0.285 | 2,100   | 0.345 | 1,440   | 0.420 | 895   | 0.46  |   |       |   |       |   |       |
| 765    | 4800             | 0.655            | 5,950                          | 0.325 | 2,340   | 0.38  | 1,660   | 0.455 | 1,120   | 0.50  |   |       |   |       |   |       |
| 798    | 5000             | 0.710            | 6,200                          | 0.370 | 2,620   | 0.42  | 1,870   | 0.495 | 1,300   | 0.55  |   |       |   |       |   |       |
| 836    | 5250             | 0.784            | 6,500                          | 0.425 | 3,000   | 0.47  | 2,140   | 0.55  | 1,570   | 0.62  | 528   | 0.72  |   |       |   |       |
| 876    | 5500             | 0.859            | 6,810                          | 0.49  | 3,420   | 0.53  | 2,420   | 0.60  | 1,850   | 0.63  | 917   | 0.79  |   |       |   |       |
| 916    | 5750             | 0.940            | 7,130                          | 0.56  | 3,880   | 0.60  | 2,710   | 0.66  | 2,140   | 0.75  | 1,210   | 0.88  |   |       |   |       |
| 956    | 6000             | 1.02             | 7,450                          | 0.63  | 4,300   | 0.67  | 3,020   | 0.73  | 2,410   | 0.82  | 1,470   | 0.96  | 490   | 1.10  |   |       |
| 996    | 6250             | 1.11             | 7,750                          | 0.72  | 4,750   | 0.74  | 3,380   | 0.80  | 2,650   | 0.89  | 1,710   | 1.05  | 905   | 1.20  |   |       |
| 1035   | 6500             | 1.20             | 8,070                          | 0.80  | 5,190   | 0.82  | 3,750   | 0.88  | 2,960   | 0.97  | 2,000   | 1.15  | 1,250   | 1.30  |   |       |
| 1074   | 6750             | 1.30             | 8,390                          | 0.90  |   |       | 4,200   | 0.97  | 3,250   | 1.05  | 2,290   | 1.25  | 1,530   | 1.40  |   |       |
| 1114   | 7000             | 1.39             | 8,700                          | 1.00  |   |       | 4,600   | 1.05  | 3,560   | 1.15  | 2,540   | 1.35  | 1,760   | 1.50  |   |       |
| 1194   | 7500             | 1.60             | 9,300                          | 1.25  |   |       | 5,510   | 1.3   | 4,340   | 1.35  | 3,080   | 1.55  | 2,310   | 1.75  | 848   | 2.05  |
| 1273   | 8000             | 1.82             | 9,920                          | 1.50  |   |       |   |       | 5,170   | 1.6   | 3,620   | 1.75  | 2,860   | 2.05  | 1,580   | 2.35  |
| 1353   | 8500             | 2.05             | 10,600                         | 1.80  |   |       |   |       | 6,000   | 1.9   | 4,270   | 2.05  | 3,420   | 2.30  | 2,080   | 2.70  |
| 1433   | 9000             | 2.30             | 11,200                         | 2.15  |   |       |   |       | 7,000   | 2.2   | 5,000   | 2.35  | 3,940   | 2.60  | 2,630   | 3.10  |
| 1512   | 9500             | 2.56             | 11,800                         | 2.50  |   |       |   |       |   |       | 5,830   | 2.7   | 4,510   | 2.90  | 3,170   | 3.55  |
| 1592   | 10000            | 2.84             | 12,400                         | 2.95  |   |       |   |       |   |       | 6,700   | 3.1   | 5,250   | 3.35  | 3,770   | 4     |

## 30" Sturtevant Disc Fan—Design 2

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed<br>F.P.M. | S.N.D.<br>in<br>inches | Volume<br>C.F.M.                  | H. P. | Volume<br>C.F.M.   | H. P. | Volume<br>C.F.M.   | H. P. | Volume<br>C.F.M.   | H. P. | Volume<br>C.F.M.   | H. P. | Volume<br>C.F.M.   | H. P. | Volume<br>C.F.M.   | H. P. |
|--------|---------------------|------------------------|-----------------------------------|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|
|        |                     |                        | Static Pressure<br>Free Discharge |       | Static Pressure<br>1/4" Water<br>.145 ozs. per<br>sq. inch |       | Static Pressure<br>1/2" Water<br>.217 ozs. per<br>sq. inch |       | Static Pressure<br>3/4" Water<br>.289 ozs. per<br>sq. inch |       | Static Pressure<br>1" Water<br>.334 ozs. per<br>sq. inch |       | Static Pressure<br>1 1/4" Water<br>.378 ozs. per<br>sq. inch |       | Static Pressure<br>1 1/2" Water<br>.415 ozs. per<br>sq. inch |       |
| 280    | 2200                | 0.137                  | 4,270                             | 0.050 |  |       |  |       |  |       |  |       |  |       |  |       |
| 300    | 2400                | 0.164                  | 4,600                             | 0.063 |  |       |  |       |  |       |  |       |  |       |  |       |
| 330    | 2600                | 0.192                  | 5,050                             | 0.081 |  |       |  |       |  |       |  |       |  |       |  |       |
| 356    | 2800                | 0.223                  | 5,440                             | 0.100 |  |       |  |       |  |       |  |       |  |       |  |       |
| 382    | 3000                | 0.256                  | 5,820                             | 0.125 | 383  | 0.210 |  |       |  |       |  |       |  |       |  |       |
| 408    | 3200                | 0.291                  | 6,210                             | 0.150 | 867  | 0.235 |  |       |  |       |  |       |  |       |  |       |
| 433    | 3400                | 0.328                  | 6,600                             | 0.180 | 1,240  | 0.280 |  |       |  |       |  |       |  |       |  |       |
| 459    | 3600                | 0.363                  | 7,000                             | 0.215 | 1,580  | 0.325 |  |       |  |       |  |       |  |       |  |       |
| 485    | 3800                | 0.410                  | 7,370                             | 0.250 | 1,910  | 0.360 | 803  | 0.42  |  |       |  |       |  |       |  |       |
| 510    | 4000                | 0.455                  | 7,760                             | 0.295 | 2,240  | 0.405 | 1,240  | 0.47  |  |       |  |       |  |       |  |       |
| 535    | 4200                | 0.501                  | 8,150                             | 0.340 | 2,600  | 0.45  | 1,590  | 0.53  | 413  | 0.56  |  |       |  |       |  |       |
| 560    | 4400                | 0.550                  | 8,550                             | 0.390 | 2,920  | 0.49  | 1,920  | 0.59  | 950  | 0.64  |  |       |  |       |  |       |
| 585    | 4600                | 0.601                  | 8,930                             | 0.445 | 3,280  | 0.54  | 2,260  | 0.66  | 1,400  | 0.72  |  |       |  |       |  |       |
| 611    | 4800                | 0.655                  | 9,310                             | 0.51  | 3,650  | 0.59  | 2,590  | 0.71  | 1,740  | 0.79  |  |       |  |       |  |       |
| 636    | 5000                | 0.710                  | 9,700                             | 0.57  | 4,100  | 0.66  | 2,920  | 0.77  | 2,040  | 0.86  |  |       |  |       |  |       |
| 669    | 5250                | 0.784                  | 10,200                            | 0.66  | 4,700  | 0.74  | 3,350  | 0.85  | 2,450  | 0.96  | 825  | 1.15  |  |       |  |       |
| 700    | 5500                | 0.859                  | 10,700                            | 0.76  | 5,350  | 0.82  | 3,780  | 0.94  | 2,890  | 1.05  | 1,430  | 1.25  |  |       |  |       |
| 732    | 5750                | 0.94                   | 11,200                            | 0.87  | 5,990  | 0.93  | 4,240  | 1.05  | 3,340  | 1.15  | 1,900  | 1.35  |  |       |  |       |
| 765    | 6000                | 1.02                   | 11,600                            | 0.99  | 6,740  | 1.05  | 4,710  | 1.15  | 3,770  | 1.30  | 2,300  | 1.50  | 766  | 1.75  |  |       |
| 796    | 6250                | 1.11                   | 12,100                            | 1.10  | 7,440  | 1.15  | 5,270  | 1.25  | 4,150  | 1.40  | 2,670  | 1.65  | 1,420  | 1.85  |  |       |
| 828    | 6500                | 1.20                   | 12,600                            | 1.25  | 8,110  | 1.30  | 5,880  | 1.40  | 4,630  | 1.50  | 3,130  | 1.80  | 1,950  | 2.00  |  |       |
| 860    | 6750                | 1.30                   | 13,100                            | 1.40  |  |       | 6,570  | 1.50  | 5,090  | 1.65  | 3,590  | 1.95  | 2,390  | 2.15  |  |       |
| 891    | 7000                | 1.39                   | 13,600                            | 1.55  |  |       | 7,200  | 1.65  | 5,580  | 1.80  | 3,980  | 2.10  | 2,750  | 2.35  |  |       |
| 955    | 7500                | 1.60                   | 14,500                            | 1.95  |  |       | 8,630  | 2     | 6,780  | 2.10  | 4,830  | 2.45  | 3,610  | 2.75  | 1,320  | 3.20  |
| 1020   | 8000                | 1.82                   | 15,500                            | 2.35  |  |       |  |       | 8,100  | 2.50  | 5,660  | 2.80  | 4,480  | 3.20  | 2,480  | 3.70  |
| 1081   | 8500                | 2.05                   | 16,500                            | 2.80  |  |       |  |       | 9,480  | 2.95  | 6,690  | 3.20  | 5,350  | 3.60  | 3,260  | 4.25  |
| 1147   | 9000                | 2.30                   | 17,500                            | 3.35  |  |       |  |       | 11,100   | 3.45  | 7,830  | 3.65  | 6,150  | 4.10  | 4,110  | 4.85  |
| 1210   | 9500                | 2.56                   | 18,400                            | 3.9   |  |       |  |       |  |       | 9,100  | 4.20  | 7,050  | 4.55  | 4,950  | 5.5   |
| 1272   | 10000               | 2.84                   | 19,400                            | 4.6   |  |       |  |       |  |       | 10,500   | 4.85  | 8,200  | 5.2   | 5,900  | 6.3   |

## 36" Sturtevant Disc Fan—Design 2

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed<br>F.P.M. | S.N.D.<br>in<br>inches | Static Pressure<br>Free Discharge |       | Static Pressure<br>1/4" Water<br>.145 ozs. per<br>sq. inch |       | Static Pressure<br>1/2" Water<br>.217 ozs. per<br>sq. inch |      | Static Pressure<br>3/4" Water<br>.289 ozs. per<br>sq. inch |      | Static Pressure<br>1" Water<br>.334 ozs. per<br>sq. inch |      | Static Pressure<br>1 1/4" Water<br>.378 ozs. per<br>sq. inch |      | Static Pressure<br>1 1/2" Water<br>.415 ozs. per<br>sq. inch |     |
|--------|---------------------|------------------------|-----------------------------------|-------|--|-------|--|------|--|------|--|------|--|------|--|-----|
| 233    | 2200                | 0.137                  | 6,150                             | 0.070 |  |       |  |      |  |      |  |      |  |      |  |     |
| 255    | 2400                | 0.164                  | 6,700                             | 0.091 |  |       |  |      |  |      |  |      |  |      |  |     |
| 276    | 2600                | 0.192                  | 7,270                             | 0.115 |  |       |  |      |  |      |  |      |  |      |  |     |
| 297    | 2800                | 0.223                  | 7,820                             | 0.145 |  |       |  |      |  |      |  |      |  |      |  |     |
| 318    | 3000                | 0.256                  | 8,390                             | 0.180 | 551  | 0.300 |  |      |  |      |  |      |  |      |  |     |
| 340    | 3200                | 0.291                  | 8,950                             | 0.215 | 1,250  | 0.335 |  |      |  |      |  |      |  |      |  |     |
| 361    | 3400                | 0.328                  | 9,500                             | 0.260 | 1,780  | 0.400 |  |      |  |      |  |      |  |      |  |     |
| 382    | 3600                | 0.368                  | 10,100                            | 0.310 | 2,280  | 0.465 |  |      |  |      |  |      |  |      |  |     |
| 403    | 3800                | 0.410                  | 10,600                            | 0.360 | 2,740  | 0.52  | 1,160  | 0.60 |  |      |  |      |  |      |  |     |
| 425    | 4000                | 0.455                  | 11,200                            | 0.425 | 3,230  | 0.58  | 1,780  | 0.68 |  |      |  |      |  |      |  |     |
| 445    | 4200                | 0.501                  | 11,700                            | 0.49  | 3,740  | 0.65  | 2,280  | 0.76 | 594  | 0.81 |  |      |  |      |  |     |
| 467    | 4400                | 0.550                  | 12,300                            | 0.56  | 4,200  | 0.71  | 2,760  | 0.85 | 1,370  | 0.93 |  |      |  |      |  |     |
| 488    | 4600                | 0.601                  | 12,900                            | 0.64  | 4,720  | 0.77  | 3,260  | 0.95 | 2,020  | 1.05 |  |      |  |      |  |     |
| 510    | 4800                | 0.655                  | 13,400                            | 0.73  | 5,280  | 0.85  | 3,740  | 1.00 | 2,510  | 1.15 |  |      |  |      |  |     |
| 531    | 5000                | 0.710                  | 14,100                            | 0.83  | 5,900  | 0.94  | 4,210  | 1.10 | 2,940  | 1.25 |  |      |  |      |  |     |
| 557    | 5250                | 0.784                  | 14,700                            | 0.95  | 6,690  | 1.05  | 4,830  | 1.25 | 3,530  | 1.40 | 1,190  | 1.65 |  |      |  |     |
| 584    | 5500                | 0.859                  | 15,400                            | 1.10  | 7,710  | 1.20  | 5,450  | 1.35 | 4,150  | 1.55 | 2,070  | 1.80 |  |      |  |     |
| 610    | 5750                | 0.94                   | 16,100                            | 1.25  | 8,630  | 1.35  | 6,100  | 1.50 | 4,810  | 1.70 | 2,730  | 1.95 |  |      |  |     |
| 637    | 6000                | 1.02                   | 16,800                            | 1.45  | 9,690  | 1.50  | 6,800  | 1.65 | 5,430  | 1.85 | 3,310  | 2.15 | 1,100  | 2.50 |  |     |
| 663    | 6250                | 1.11                   | 17,500                            | 1.60  | 10,700   | 1.65  | 7,580  | 1.80 | 5,970  | 2.00 | 3,850  | 2.35 | 2,040  | 2.65 |  |     |
| 690    | 6500                | 1.20                   | 18,200                            | 1.80  | 11,700   | 1.85  | 8,460  | 2.00 | 6,670  | 2.20 | 4,510  | 2.60 | 2,810  | 2.90 |  |     |
| 716    | 6750                | 1.30                   | 18,900                            | 2.00  |  |       | 9,450  | 2.20 | 7,320  | 2.40 | 5,160  | 2.80 | 3,440  | 3.10 |  |     |
| 743    | 7000                | 1.39                   | 19,600                            | 2.25  |  |       | 10,400   | 2.35 | 8,030  | 2.55 | 5,730  | 3.05 | 3,960  | 3.40 |  |     |
| 796    | 7500                | 1.60                   | 20,900                            | 2.80  |  |       | 12,400   | 2.9  | 9,780  | 3.05 | 6,950  | 3.5  | 5,200  | 3.95 | 1,910  | 4.6 |
| 849    | 8000                | 1.82                   | 22,400                            | 3.40  |  |       |  |      | 11,700   | 3.60 | 8,150  | 4.0  | 6,450  | 4.6  | 3,560  | 5.3 |
| 902    | 8500                | 2.05                   | 23,800                            | 4.05  |  |       |  |      | 13,700   | 4.25 | 9,610  | 4.6  | 7,700  | 5.2  | 4,690  | 6.1 |
| 955    | 9000                | 2.30                   | 25,200                            | 4.8   |  |       |  |      | 15,900   | 5    | 11,300   | 5.3  | 8,850  | 5.9  | 5,920  | 7   |
| 1008   | 9500                | 2.56                   | 26,500                            | 5.6   |  |       |  |      |  |      | 13,100   | 6    | 10,200   | 6.5  | 7,140  | 8   |
| 1060   | 10000               | 2.84                   | 28,900                            | 6.6   |  |       |  |      |  |      | 15,100   | 7    | 11,800   | 7.5  | 8,490  | 9   |



## 42" Sturtevant Disc Fan—Design 2

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.                  | H. P. | Volume C.F.M.                                     | H. P. | Volume C.F.M.                                     | H. P. | Volume C.F.M.                                     | H. P. | Volume C.F.M.                                     | H. P. | Volume C.F.M.                                     | H. P. | Volume C.F.M.                                   | H. P. |
|--------|------------------|------------------|--------------------------------|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|
|        |                  |                  | Static Pressure Free Discharge |       | Static Pressure 1/4" Water .145 ozs. per sq. inch |       | Static Pressure 3/8" Water .217 ozs. per sq. inch |       | Static Pressure 1/2" Water .289 ozs. per sq. inch |       | Static Pressure 5/8" Water .434 ozs. per sq. inch |       | Static Pressure 3/4" Water .578 ozs. per sq. inch |       | Static Pressure 1" Water .878 ozs. per sq. inch |       |
| 200    | 2200             | 0.137            | 8,360                          | 0.095 |   |       |   |       |   |       |   |       |   |       |   |       |
| 218    | 2400             | 0.164            | 9,120                          | 0.125 |   |       |   |       |   |       |   |       |   |       |   |       |
| 236    | 2600             | 0.192            | 9,870                          | 0.160 |   |       |   |       |   |       |   |       |   |       |   |       |
| 255    | 2800             | 0.223            | 10,600                         | 0.200 |   |       |   |       |   |       |   |       |   |       |   |       |
| 273    | 3000             | 0.256            | 11,400                         | 0.245 | 750   | 0.410 |   |       |   |       |   |       |   |       |   |       |
| 291    | 3200             | 0.291            | 12,200                         | 0.295 | 1,690   | 0.455 |   |       |   |       |   |       |   |       |   |       |
| 309    | 3400             | 0.328            | 12,900                         | 0.35  | 2,430   | 0.55  |   |       |   |       |   |       |   |       |   |       |
| 329    | 3600             | 0.368            | 13,700                         | 0.42  | 3,100   | 0.63  |   |       |   |       |   |       |   |       |   |       |
| 346    | 3800             | 0.410            | 14,400                         | 0.49  | 3,730   | 0.71  | 1,570   | 0.82  |   |       |   |       |   |       |   |       |
| 364    | 4000             | 0.455            | 15,200                         | 0.58  | 4,390   | 0.79  | 2,430   | 0.92  |   |       |   |       |   |       |   |       |
| 382    | 4200             | 0.501            | 16,000                         | 0.67  | 5,090   | 0.88  | 3,110   | 1.05  | 808   | 1.10  |   |       |   |       |   |       |
| 400    | 4400             | 0.550            | 16,800                         | 0.77  | 5,710   | 0.96  | 3,750   | 1.15  | 1,860   | 1.25  |   |       |   |       |   |       |
| 418    | 4600             | 0.601            | 17,500                         | 0.87  | 6,420   | 1.05  | 4,430   | 1.30  | 2,740   | 1.40  |   |       |   |       |   |       |
| 436    | 4800             | 0.655            | 18,200                         | 0.99  | 7,160   | 1.15  | 5,080   | 1.40  | 3,420   | 1.55  |   |       |   |       |   |       |
| 455    | 5000             | 0.710            | 19,000                         | 1.15  | 8,040   | 1.30  | 5,720   | 1.50  | 3,990   | 1.70  |   |       |   |       |   |       |
| 478    | 5250             | 0.784            | 19,900                         | 1.30  | 9,200   | 1.45  | 6,570   | 1.70  | 4,800   | 1.90  | 1,620   | 2.20  |   |       |   |       |
| 500    | 5500             | 0.859            | 20,900                         | 1.50  | 10,500  | 1.60  | 7,410   | 1.85  | 5,660   | 2.10  | 2,810   | 2.45  |   |       |   |       |
| 523    | 5750             | 0.940            | 21,800                         | 1.70  | 11,700  | 1.85  | 8,300   | 2.00  | 6,550   | 2.30  | 3,720   | 2.70  |   |       |   |       |
| 545    | 6000             | 1.02             | 22,800                         | 1.95  | 13,200  | 2.05  | 9,240   | 2.25  | 7,390   | 2.50  | 4,500   | 2.95  | 1,500   | 3.40  |   |       |
| 569    | 6250             | 1.11             | 23,800                         | 2.20  | 14,600  | 2.25  | 10,300  | 2.45  | 8,120   | 2.75  | 5,240   | 3.20  | 2,770   | 3.65  |   |       |
| 591    | 6500             | 1.20             | 24,700                         | 2.45  | 15,900  | 2.5   | 11,500  | 2.70  | 9,070   | 3.00  | 6,140   | 3.55  | 3,820   | 3.95  |   |       |
| 614    | 6750             | 1.30             | 25,700                         | 2.75  |   |       | 12,900  | 3.00  | 9,950   | 3.25  | 7,030   | 3.85  | 4,680   | 4.25  |   |       |
| 636    | 7000             | 1.39             | 26,700                         | 3.1   |   |       | 14,100  | 3.20  | 10,900  | 3.50  | 7,800   | 4.15  | 5,390   | 4.6   |   |       |
| 682    | 7500             | 1.60             | 28,500                         | 3.8   |   |       | 16,900  | 3.95  | 13,300  | 4.15  | 9,450   | 4.8   | 7,070   | 5.4   | 2,600   | 6.3   |
| 727    | 8000             | 1.82             | 30,400                         | 4.6   |   |       |   |       | 15,900  | 4.85  | 11,100  | 5.4   | 8,780   | 6.2   | 4,850   | 7.2   |
| 773    | 8500             | 2.05             | 32,300                         | 5.5   |   |       |   |       | 18,600  | 5.8   | 13,100  | 6.3   | 10,500  | 7.1   | 6,380   | 8.3   |
| 818    | 9000             | 2.30             | 34,300                         | 6.6   |   |       |   |       | 21,700  | 6.8   | 15,300  | 7.2   | 12,100  | 8.0   | 8,050   | 9.5   |
| 864    | 9500             | 2.56             | 36,100                         | 7.7   |   |       |   |       |   |       | 17,900  | 8.2   | 13,800  | 8.9   | 9,700   | 11    |
| 910    | 10000            | 2.84             | 38,000                         | 9     |   |       |   |       |   |       | 20,500  | 9.5   | 16,100  | 10.5  | 11,500  | 12    |

## 48" Sturtevant Disc Fan—Design 2

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed<br>F.P.M. | S.N.D.<br>in<br>inches | Static Pressure<br>Free Discharge |       | Static Pressure<br>1/4" Water<br>.145 ozs. per<br>sq. inch |      | Static Pressure<br>3/8" Water<br>.217 ozs. per<br>sq. inch |      | Static Pressure<br>1/2" Water<br>.289 ozs. per<br>sq. inch |      | Static Pressure<br>3/4" Water<br>.434 ozs. per<br>sq. inch |      | Static Pressure<br>1" Water<br>.578 ozs. per<br>sq. inch |      | Static Pressure<br>1 1/8" Water<br>.878 ozs. per<br>sq. inch |      |
|--------|---------------------|------------------------|-----------------------------------|-------|--|------|--|------|--|------|--|------|--|------|--|------|
| 175    | 2200                | 0.137                  | 11,000                            | 0.125 |  |      |  |      |  |      |  |      |  |      |  |      |
| 191    | 2400                | 0.164                  | 11,800                            | 0.160 |  |      |  |      |  |      |  |      |  |      |  |      |
| 207    | 2600                | 0.192                  | 12,900                            | 0.205 |  |      |  |      |  |      |  |      |  |      |  |      |
| 223    | 2800                | 0.223                  | 13,900                            | 0.260 |  |      |  |      |  |      |  |      |  |      |  |      |
| 239    | 3000                | 0.256                  | 14,900                            | 0.315 | 979  | 0.54 |  |      |  |      |  |      |  |      |  |      |
| 255    | 3200                | 0.291                  | 15,900                            | 0.385 | 2,210  | 0.60 |  |      |  |      |  |      |  |      |  |      |
| 271    | 3400                | 0.328                  | 16,900                            | 0.46  | 3,160  | 0.72 |  |      |  |      |  |      |  |      |  |      |
| 287    | 3600                | 0.368                  | 17,900                            | 0.55  | 4,040  | 0.83 |  |      |  |      |  |      |  |      |  |      |
| 302    | 3800                | 0.410                  | 18,800                            | 0.64  | 4,860  | 0.93 | 2,050  | 1.05 |  |      |  |      |  |      |  |      |
| 319    | 4000                | 0.455                  | 19,800                            | 0.75  | 5,720  | 1.05 | 3,160  | 1.20 |  |      |  |      |  |      |  |      |
| 334    | 4200                | 0.501                  | 20,800                            | 0.87  | 6,640  | 1.15 | 4,050  | 1.35 | 1,050  | 1.45 |  |      |  |      |  |      |
| 350    | 4400                | 0.550                  | 21,800                            | 1.00  | 7,450  | 1.25 | 4,900  | 1.55 | 2,430  | 1.65 |  |      |  |      |  |      |
| 366    | 4600                | 0.601                  | 22,800                            | 1.15  | 8,370  | 1.40 | 5,770  | 1.70 | 3,590  | 1.85 |  |      |  |      |  |      |
| 382    | 4800                | 0.655                  | 23,800                            | 1.30  | 9,330  | 1.55 | 6,620  | 1.80 | 4,450  | 2.00 |  |      |  |      |  |      |
| 398    | 5000                | 0.710                  | 24,800                            | 1.45  | 10,500   | 1.70 | 7,450  | 2.00 | 5,200  | 2.20 |  |      |  |      |  |      |
| 418    | 5250                | 0.784                  | 26,000                            | 1.70  | 11,850   | 1.90 | 8,560  | 2.20 | 6,260  | 2.45 | 2,110  | 2.90 |  |      |  |      |
| 438    | 5500                | 0.859                  | 27,200                            | 1.95  | 13,700   | 2.10 | 9,660  | 2.40 | 7,380  | 2.70 | 3,660  | 3.25 |  |      |  |      |
| 458    | 5750                | 0.940                  | 28,500                            | 2.25  | 15,300   | 2.45 | 10,800   | 2.65 | 8,540  | 3.00 | 4,850  | 3.50 |  |      |  |      |
| 478    | 6000                | 1.02                   | 29,800                            | 2.55  | 17,200   | 2.7  | 12,100   | 2.90 | 9,640  | 3.30 | 5,870  | 3.85 |  |      |  |      |
| 498    | 6250                | 1.11                   | 31,000                            | 2.85  | 19,000   | 3.0  | 13,500   | 3.20 | 10,600   | 3.55 | 6,830  | 4.20 | 1,960  | 4.40 |  |      |
|        |                     |                        |                                   |       |  |      |  |      |  |      |  |      | 3,620  | 4.75 |  |      |
| 517    | 6500                | 1.20                   | 32,200                            | 3.20  | 20,700   | 3.3  | 15,000   | 3.50 | 11,800   | 3.90 | 8,000  | 4.65 | 4,990  | 5.1  |  |      |
| 537    | 6750                | 1.30                   | 33,500                            | 3.60  |  |      | 16,800   | 3.90 | 13,000   | 4.20 | 9,160  | 5.0  | 6,100  | 5.5  |  |      |
| 557    | 7000                | 1.39                   | 34,800                            | 4.00  |  |      | 18,400   | 4.15 | 14,300   | 4.55 | 10,200   | 5.4  | 7,030  | 6.0  |  |      |
| 597    | 7500                | 1.60                   | 37,100                            | 4.95  |  |      | 22,000   | 5.2  | 17,300   | 5.4  | 12,300   | 6.2  | 9,220  | 7.0  | 3,390  | 8.2  |
| 637    | 8000                | 1.82                   | 39,600                            | 6.0   |  |      |  |      | 20,700   | 6.4  | 14,500   | 7.1  | 11,500   | 8.1  | 6,320  | 9.4  |
| 677    | 8500                | 2.05                   | 42,100                            | 7.2   |  |      |  |      | 24,200   | 7.5  | 17,100   | 8.2  | 13,700   | 9.3  | 8,310  | 11.0 |
| 717    | 9000                | 2.30                   | 44,600                            | 8.5   |  |      |  |      | 28,200   | 8.8  | 20,000   | 9.4  | 15,700   | 10.5 | 10,500   | 12.5 |
| 756    | 9500                | 2.56                   | 47,000                            | 10    |  |      |  |      |  |      | 23,300   | 10.5 | 18,000   | 11.5 | 12,700   | 14   |
| 796    | 10000               | 2.84                   | 49,500                            | 12    |  |      |  |      |  |      | 26,300   | 12.5 | 21,000   | 13.5 | 15,100   | 16   |



## 66" Sturtevant Disc Fan—Design 2

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.                  | H. P. | Volume C.F.M.                                     | H. P. | Volume C.F.M.                                     | H. P. | Volume C.F.M.                                     | H. P. | Volume C.F.M.                                     | H. P. | Volume C.F.M.                                   | H. P. | Volume C.F.M.                                       | H. P. |
|--------|------------------|------------------|--------------------------------|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|
|        |                  |                  | Static Pressure Free Discharge |       | Static Pressure 1/4" Water .145 ozs. per sq. inch |       | Static Pressure 3/8" Water .217 ozs. per sq. inch |       | Static Pressure 1/2" Water .289 ozs. per sq. inch |       | Static Pressure 3/4" Water .434 ozs. per sq. inch |       | Static Pressure 1" Water .578 ozs. per sq. inch |       | Static Pressure 1 1/2" Water .878 ozs. per sq. inch |       |
| 127    | 2200             | 0 137            | 20,600                         | 0 235 |   |       |   |       |   |       |   |       |   |       |   |       |
| 139    | 2400             | 0 164            | 22,500                         | 0 305 |   |       |   |       |   |       |   |       |   |       |   |       |
| 150    | 2600             | 0 192            | 24,400                         | 0 39  |   |       |   |       |   |       |   |       |   |       |   |       |
| 162    | 2800             | 0 223            | 26,300                         | 0 49  |   |       |   |       |   |       |   |       |   |       |   |       |
| 174    | 3000             | 0 256            | 28,200                         | 0 60  | 1,850   | 1 00  |   |       |   |       |   |       |   |       |   |       |
| 185    | 3200             | 0 291            | 30,000                         | 0 72  | 4,180   | 1 15  |   |       |   |       |   |       |   |       |   |       |
| 197    | 3400             | 0 328            | 31,900                         | 0 87  | 5,990   | 1 35  |   |       |   |       |   |       |   |       |   |       |
| 208    | 3600             | 0 368            | 33,800                         | 1 05  | 7,650   | 1 55  |   |       |   |       |   |       |   |       |   |       |
| 220    | 3800             | 0 410            | 35,600                         | 1 20  | 9,210   | 1 75  | 3,880   | 2 00  |   |       |   |       |   |       |   |       |
| 231    | 4000             | 0 455            | 37,500                         | 1 40  | 10,800  | 1 95  | 5,990   | 2 30  |   |       |   |       |   |       |   |       |
| 243    | 4200             | 0 501            | 39,400                         | 1 65  | 12,600  | 2 15  | 7,670   | 2 55  | 2,000   | 2 70  |   |       |   |       |   |       |
| 255    | 4400             | 0 550            | 41,300                         | 1 90  | 14,100  | 2 35  | 9,260   | 2 85  | 4,600   | 3 10  |   |       |   |       |   |       |
| 266    | 4600             | 0 601            | 43,100                         | 2 15  | 15,800  | 2 60  | 10,900  | 3 15  | 6,760   | 3 45  |   |       |   |       |   |       |
| 278    | 4800             | 0 655            | 45,000                         | 2 45  | 17,700  | 2 85  | 12,500  | 3 45  | 8,440   | 3 80  |   |       |   |       |   |       |
| 289    | 5000             | 0 710            | 46,900                         | 2 8   | 19,800  | 3 15  | 14,100  | 3 75  | 9,850   | 4 15  |   |       |   |       |   |       |
| 304    | 5250             | 0 784            | 49,100                         | 3 2   | 22,700  | 3 55  | 16,200  | 4 15  | 11,800  | 4 65  | 3,990   | 5 5   |   |       |   |       |
| 318    | 5500             | 0 859            | 51,500                         | 3 7   | 25,900  | 4 0   | 18,300  | 4 55  | 14,000  | 5 2   | 6,940   | 6 0   |   |       |   |       |
| 333    | 5750             | 0 940            | 54,000                         | 4 2   | 29,000  | 4 5   | 20,500  | 5 0   | 16,200  | 5 7   | 9,170   | 6 6   |   |       |   |       |
| 347    | 6000             | 1 02             | 56,300                         | 4 8   | 32,000  | 5 1   | 22,800  | 5 5   | 18,200  | 6 2   | 11,100  | 7 3   | 3,710   | 8 4   |   |       |
| 361    | 6250             | 1 11             | 58,600                         | 5 4   | 36,000  | 5 6   | 25,500  | 6 1   | 20,000  | 6 7   | 12,900  | 8 0   | 6,840   | 9 0   |   |       |
| 375    | 6500             | 1 20             | 61,000                         | 6 1   | 39,200  | 6 2   | 28,400  | 6 7   | 22,400  | 7 4   | 15,100  | 8 8   | 9,440   | 9 7   |   |       |
| 390    | 6750             | 1 30             | 63,400                         | 6 8   |   |       | 31,800  | 7 4   | 24,600  | 8 0   | 17,300  | 9 5   | 11,600  | 10 5  |   |       |
| 405    | 7000             | 1 39             | 65,800                         | 7 6   |   |       | 34,800  | 7 9   | 27,000  | 8 6   | 19,200  | 10 0  | 13,300  | 11 5  |   |       |
| 434    | 7500             | 1 60             | 70,300                         | 9 3   |   |       | 41,700  | 9 8   | 32,800  | 10 0  | 23,300  | 12 0  | 17,500  | 13 5  | 6,410   | 15 5  |
| 462    | 8000             | 1 82             | 75,000                         | 11 5  |   |       |   |       | 39,100  | 12 0  | 27,400  | 13 5  | 21,700  | 15 5  | 12,000  | 18 0  |
| 491    | 8500             | 2 05             | 79,800                         | 13 5  |   |       |   |       | 45,900  | 14 0  | 32,300  | 15 5  | 25,900  | 17 5  | 15,800  | 20 5  |
| 520    | 9000             | 2 30             | 84,500                         | 16    |   |       |   |       | 53,400  | 16 5  | 37,900  | 17 5  | 29,800  | 19 5  | 19,900  | 23 5  |
| 549    | 9500             | 2 56             | 89,000                         | 19    |   |       |   |       |   |       | 44,000  | 20 5  | 34,100  | 22    | 24,000  | 27    |
| 577    | 10000            | 2 84             | 93,800                         | 22    |   |       |   |       |   |       | 50,000  | 23 5  | 39,700  | 25    | 28,500  | 30    |

## 72" Sturtevant Disc Fan—Design 2

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure Free Discharge | Static Pressure 1/4" Water .145 ozs. per sq. inch | Static Pressure 3/8" Water .217 ozs. per sq. inch | Static Pressure 1/2" Water .289 ozs. per sq. inch | Static Pressure 3/4" Water .434 ozs. per sq. inch | Static Pressure 1" Water .578 ozs. per sq. inch | Static Pressure 1 1/2" Water .878 ozs. per sq. inch |
|--------|------------------|------------------|--------------------------------|---|---|---|---|---|---|
| 117    | 2200             | 0 137            | 24,600                         | 0 280   |   |   |   |   |   |
| 127    | 2400             | 0 164            | 26,800                         | 0 365   |   |   |   |   |   |
| 138    | 2600             | 0 192            | 29,000                         | 0 465   |   |   |   |   |   |
| 148    | 2800             | 0 223            | 31,300                         | 0 57  |   |   |   |   |   |
| 159    | 3000             | 0 256            | 33,500                         | 0 71  | 2,200   | 1 20  |   |   |   |
| 170    | 3200             | 0 291            | 35,800                         | 0 86  | 4,970   | 1 35  |   |   |   |
| 180    | 3400             | 0 328            | 38,000                         | 1 05  | 7,120   | 1 60  |   |   |   |
| 191    | 3600             | 0 368            | 40,200                         | 1 25  | 9,100   | 1 85  |   |   |   |
| 202    | 3800             | 0 410            | 42,400                         | 1 45  | 11,000  | 2 10  | 4,610   | 2 10  |   |
| 212    | 4000             | 0 455            | 44,600                         | 1 70  | 12,900  | 2 30  | 7,110   | 2 70  |   |
| 223    | 4200             | 0 501            | 46,900                         | 1 95  | 14,900  | 2 60  | 9,120   | 3 05  |   |
| 233    | 4400             | 0 550            | 49,100                         | 2 25  | 16,800  | 2 80  | 11,000  | 3 40  |   |
| 244    | 4600             | 0 601            | 51,400                         | 2 55  | 18,900  | 3 10  | 13,000  | 3 80  |   |
| 254    | 4800             | 0 655            | 53,500                         | 2 9   | 21,000  | 3 40  | 14,900  | 4 10  |   |
| 265    | 5000             | 0 710            | 55,800                         | 3 3   | 23,600  | 3 75  | 16,800  | 4 45  |   |
| 278    | 5250             | 0 784            | 58,500                         | 3 8   | 27,000  | 4 25  | 19,300  | 4 9   |   |
| 292    | 5500             | 0 859            | 61,300                         | 4 4   | 30,800  | 4 75  | 21,800  | 5 4   |   |
| 305    | 5750             | 0 94             | 64,100                         | 5 0   | 34,500  | 5 4   | 24,400  | 5 9   |   |
| 318    | 6000             | 1 02             | 67,000                         | 5 7   | 38,700  | 6 0   | 27,100  | 6 6   |   |
| 331    | 6250             | 1 11             | 69,800                         | 6 4   | 42,800  | 6 7   | 30,300  | 7 2   |   |
| 345    | 6500             | 1 20             | 72,600                         | 7 2   | 46,600  | 7 4   | 33,800  | 7 9   |   |
| 358    | 6750             | 1 30             | 75,500                         | 8 1   |   |   | 37,800  | 8 8   |   |
| 371    | 7000             | 1 39             | 78,300                         | 9 0   |   |   | 41,400  | 9 4   |   |
| 398    | 7500             | 1 60             | 83,600                         | 11 0  |   |   | 49,500  | 11 5  |   |
| 425    | 8000             | 1 82             | 89,300                         | 13 5  |   |   |   |   |   |
| 450    | 8500             | 2 05             | 95,000                         | 16 0  |   |   |   |   |   |
| 476    | 9000             | 2 30             | 101,000                        | 19 5  |   |   |   |   |   |
| 504    | 9500             | 2 56             | 106,000                        | 22 5  |   |   |   |   |   |
| 530    | 10000            | 2 84             | 112,000                        | 26  |   |   |   |   |   |

## 84" Sturtevant Disc Fan—Design 2

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M. H. P. Static Pressure Free Discharge | Volume C.F.M. H. P. Static Pressure 1/4" Water .145 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1/2" Water .217 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 3/4" Water .289 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1" Water .378 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1 1/4" Water .478 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 1 3/4" Water .578 ozs. per sq. inch | Volume C.F.M. H. P. Static Pressure 2" Water .678 ozs. per sq. inch |
|--------|------------------|------------------|--|---|---|---|---|---|---|---|
| 100    | 2200             | 0 137            | 33,400 0 380                                       |   |   |   |   |   |   |   |
| 109    | 2400             | 0 164            | 36,500 0 495                                       |   |   |   |   |   |   |   |
| 118    | 2600             | 0 192            | 39,600 0 63  |   |   |   |   |   |   |   |
| 127    | 2800             | 0 223            | 42,600 0 79  |   |   |   |   |   |   |   |
| 136    | 3000             | 0 256            | 45,600 0 97  | 3,000 1 65  |   |   |   |   |   |   |
| 145    | 3200             | 0 291            | 48,700 1 15  | 6,780 1 85  |   |   |   |   |   |   |
| 155    | 3400             | 0 328            | 51,700 1 40  | 9,700 2 20  |   |   |   |   |   |   |
| 164    | 3600             | 0 368            | 54,800 1 65  | 12,400 2 55   |   |   |   |   |   |   |
| 173    | 3800             | 0 410            | 57,700 1 95  | 14,900 2 85   | 6,300 3 25  |   |   |   |   |   |
| 182    | 4000             | 0 455            | 60,900 2 30  | 17,600 3 15   | 9,700 3 70  |   |   |   |   |   |
| 191    | 4200             | 0 501            | 63,900 2 65  | 20,400 3 50   | 12,400 4 15   | 3,240 4 1   |   |   |   |   |
| 200    | 4400             | 0 550            | 67,000 3 05  | 22,900 3 85   | 15,000 4 65   | 7,450 5 0   |   |   |   |   |
| 209    | 4600             | 0 601            | 70,000 3 50  | 25,700 4 20   | 17,700 5 1  | 11,900 5 6  |   |   |   |   |
| 218    | 4800             | 0 655            | 73,000 3 95  | 28,600 4 65   | 20,300 5 6  | 13,700 6 2  |   |   |   |   |
| 228    | 5000             | 0 710            | 76,000 4 5   | 32,200 5 1  | 22,900 6 1  | 16,000 6 8  |   |   |   |   |
| 239    | 5250             | 0 784            | 79,700 5 2   | 36,800 5 8  | 26,300 6 7  | 19,200 7 6  | 6,470 8 9   |   |   |   |
| 250    | 5500             | 0 859            | 83,500 6 0   | 42,000 6 5  | 29,700 7 3  | 22,600 8 4  | 11,200 9 9  |   |   |   |
| 262    | 5750             | 0 940            | 87,500 6 3   | 47,000 7 3  | 33,200 8 1  | 26,200 9 2  | 14,900 10 5   |   |   |   |
| 272    | 6000             | 1 02             | 91,300 7 8   | 52,700 8 2  | 37,000 8 9  | 29,600 10 0   | 18,000 12 0   | 6,000 13 5  |   |   |
| 284    | 6250             | 1 11             | 95,100 8 8   | 58,300 9 1  | 41,300 9 9  | 32,500 11 0   | 20,900 13 0   | 11,100 14 5   |   |   |
| 296    | 6500             | 1 20             | 99,000 9 8   | 63,600 10   | 46,000 11 0   | 36,300 12 0   | 21,500 14 0   | 15,300 16 0   |   |   |
| 307    | 6750             | 1 30             | 103,000 11 0                                       |   | 51,500 12 0   | 39,800 13 0   | 28,100 15 5   | 18,700 17 0   |   |   |
| 318    | 7000             | 1 39             | 107,000 12 5                                       |   | 56,400 12 5   | 43,700 14 0   | 31,200 16 5   | 21,600 18 5   |   |   |
| 341    | 7500             | 1 60             | 111,000 15 0                                       |   | 67,600 16   | 53,100 16 5   | 37,800 19   | 28,300 21 5   | 10,400 25   |   |
| 361    | 8000             | 1 82             | 122,000 18 5                                       |   |   | 63,500 19 5   | 44,400 22   | 35,100 25   | 19,400 29   |   |
| 386    | 8500             | 2 05             | 129,000 22   |   |   | 74,300 23   | 52,400 25   | 41,900 28   | 25,500 33   |   |
| 409    | 9000             | 2 30             | 137,000 26   |   |   | 86,000 27   | 61,400 29   | 48,200 32   | 32,200 38   |   |
| 432    | 9500             | 2 56             | 144,000 31   |   |   |   | 71,400 33   | 55,300 36   | 38,800 43   |   |
| 455    | 10000            | 2 84             | 152,000 36   |   |   |   | 82,000 38   | 64,300 41   | 40,200 49   |   |

## 96" Sturtevant Disc Fan—Design 2

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure Free Discharge | Static Pressure 1/4" Water .145 ozs. per sq. inch | Static Pressure 1/2" Water .217 ozs. per sq. inch | Static Pressure 3/4" Water .289 ozs. per sq. inch | Static Pressure 1" Water .378 ozs. per sq. inch | Static Pressure 1 1/4" Water .478 ozs. per sq. inch | Static Pressure 1 3/4" Water .578 ozs. per sq. inch | Static Pressure 2" Water .678 ozs. per sq. inch |
|--------|------------------|------------------|--------------------------------|---|---|---|---|---|---|---|
| 88     | 2200             | 0 137            | 43,600 0 50                    |   |   |   |   |   |   |   |
| 96     | 2400             | 0 164            | 47,600 0 65                    |   |   |   |   |   |   |   |
| 103    | 2600             | 0 192            | 51,600 0 83                    |   |   |   |   |   |   |   |
| 111    | 2800             | 0 223            | 55,600 1 05                    |   |   |   |   |   |   |   |
| 119    | 3000             | 0 256            | 59,500 1 25                    | 3,920 2 15  |   |   |   |   |   |   |
| 127    | 3200             | 0 291            | 63,500 1 55                    | 8,850 2 40  |   |   |   |   |   |   |
| 135    | 3400             | 0 328            | 67,500 1 85                    | 12,700 2 85                                       |   |   |   |   |   |   |
| 143    | 3600             | 0 368            | 71,500 2 20                    | 16,200 3 30                                       |   |   |   |   |   |   |
| 151    | 3800             | 0 410            | 75,400 2 60                    | 19,500 3 70                                       | 8,210 4 25  |   |   |   |   |   |
| 159    | 4000             | 0 455            | 79,500 3 00                    | 22,900 4 15                                       | 12,700 4 85                                       |   |   |   |   |   |
| 167    | 4200             | 0 501            | 83,500 3 50                    | 26,600 4 6  | 16,300 5 4  | 4,220 5 7   |   |   |   |   |
| 175    | 4400             | 0 550            | 87,500 4 00                    | 29,800 5 0  | 19,600 6 1  | 9,730 6 6   |   |   |   |   |
| 183    | 4600             | 0 601            | 91,400 4 55                    | 33,500 5 5  | 23,100 6 7  | 14,300 7 3  |   |   |   |   |
| 191    | 4800             | 0 655            | 95,300 5 2                     | 37,400 6 1  | 26,500 7 3  | 17,900 8 1  |   |   |   |   |
| 198    | 5000             | 0 710            | 99,300 5 9                     | 42,000 6 7  | 29,900 7 9  | 20,900 8 8  |   |   |   |   |
| 209    | 5250             | 0 784            | 104,000 6 8                    | 48,000 7 5  | 34,300 8 7  | 25,000 9 9  | 8,450 11 5                                      |   |   |   |
| 218    | 5500             | 0 859            | 109,000 7 8                    | 54,800 8 4  | 38,700 9 6  | 29,600 11 0                                       | 14,700 13 0                                     |   |   |   |
| 228    | 5750             | 0 940            | 114,000 9 0                    | 61,200 9 6  | 43,400 10 5                                       | 34,200 12 0                                       | 19,400 14 0                                     |   |   |   |
| 239    | 6000             | 1 02             | 119,000 10 0                   | 68,900 10 5                                       | 48,300 11 5                                       | 38,900 13 0                                       | 23,500 15 5                                     | 7,840 17 5  |   |   |
| 248    | 6250             | 1 11             | 124,000 11 5                   | 76,000 12   | 53,900 13 0                                       | 42,400 14 5                                       | 27,300 17 0                                     | 14,500 19 0   |   |   |
| 259    | 6500             | 1 20             | 129,000 13 0                   | 83,000 13   | 60,000 14 0                                       | 47,400 15 5                                       | 32,000 18 5                                     | 20,000 20 5   |   |   |
| 268    | 6750             | 1 30             | 134,000 14 5                   |   | 67,200 15 5                                       | 52,000 17 0                                       | 36,700 20 0                                     | 24,500 22   |   |   |
| 278    | 7000             | 1 39             | 139,000 16                     |   | 73,600 16 5                                       | 57,000 18 5                                       | 40,600 21 5                                     | 28,100 24   |   |   |
| 298    | 7500             | 1 60             | 149,000 20                     |   | 88,200 20 5                                       | 69,400 21 5                                       | 49,400 25                                       | 33,900 28   | 13,600 33   |   |
| 318    | 8000             | 1 82             | 159,000 24                     |   |   | 82,800 25   | 58,000 28                                       | 45,900 33   | 25,300 38   |   |
| 338    | 8500             | 2 05             | 169,000 29                     |   |   | 97,000 30   | 68,400 33                                       | 54,600 37   | 33,300 44   |   |
| 350    | 9000             | 2 30             | 179,000 34                     |   |   | 113,000 35  | 80,000 37                                       | 63,000 42   | 42,100 50   |   |
| 378    | 9500             | 2 56             | 188,000 40                     |   |   |   | 93,200 43                                       | 72,100 46   | 50,700 56   |   |
| 397    | 10000            | 2 84             | 198,000 47                     |   |   |   | 107,000 50                                      | 84,000 54   | 60,400 64   |   |

## 108" Sturtevant Disc Fan — Design 2

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Volume C.F.M.                  | H. P. | Volume C.F.M.                                     | H. P. | Volume C.F.M.                                     | H. P. | Volume C.F.M.                                     | H. P. | Volume C.F.M.                                     | H. P. | Volume C.F.M.                                     | H. P. | Volume C.F.M.                                     | H. P. |
|--------|------------------|------------------|--------------------------------|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|
|        |                  |                  | Static Pressure Free Discharge |       | Static Pressure 1/4" Water .145 ozs. per sq. inch |       | Static Pressure 3/8" Water .217 ozs. per sq. inch |       | Static Pressure 1/2" Water .289 ozs. per sq. inch |       | Static Pressure 5/8" Water .344 ozs. per sq. inch |       | Static Pressure 3/4" Water .378 ozs. per sq. inch |       | Static Pressure 7/8" Water .412 ozs. per sq. inch |       |
| 78     | 2200             | 0.137            | 55,300                         | 0.63  |   |       |   |       |   |       |   |       |   |       |   |       |
| 85     | 2400             | 0.164            | 60,300                         | 0.82  |   |       |   |       |   |       |   |       |   |       |   |       |
| 92     | 2600             | 0.192            | 65,400                         | 1.05  |   |       |   |       |   |       |   |       |   |       |   |       |
| 99     | 2800             | 0.223            | 70,400                         | 1.30  |   |       |   |       |   |       |   |       |   |       |   |       |
| 106    | 3000             | 0.256            | 75,500                         | 1.60  | 4,900   | 2.7   |   |       |   |       |   |       |   |       |   |       |
| 113    | 3200             | 0.291            | 80,500                         | 1.95  | 11,200  | 3.0   |   |       |   |       |   |       |   |       |   |       |
| 120    | 3400             | 0.328            | 85,500                         | 2.35  | 16,000  | 3.6   |   |       |   |       |   |       |   |       |   |       |
| 128    | 3600             | 0.368            | 90,500                         | 2.75  | 20,500  | 4.2   |   |       |   |       |   |       |   |       |   |       |
| 135    | 3800             | 0.410            | 95,500                         | 3.25  | 24,700  | 4.7   | 10,400  | 5.4   |   |       |   |       |   |       |   |       |
| 142    | 4000             | 0.455            | 100,000                        | 3.8   | 29,000  | 5.2   | 16,000  | 6.1   |   |       |   |       |   |       |   |       |
| 149    | 4200             | 0.501            | 106,000                        | 4.4   | 33,600  | 5.8   | 20,500  | 6.8   | 5,350   | 7.3   |   |       |   |       |   |       |
| 156    | 4400             | 0.550            | 111,000                        | 5.1   | 37,800  | 6.3   | 24,800  | 7.7   | 12,300  | 8.3   |   |       |   |       |   |       |
| 163    | 4600             | 0.601            | 116,000                        | 5.8   | 42,500  | 7.0   | 29,200  | 8.5   | 18,100  | 9.3   |   |       |   |       |   |       |
| 170    | 4800             | 0.655            | 121,000                        | 6.6   | 47,300  | 7.7   | 33,600  | 9.2   | 22,600  | 10.0  |   |       |   |       |   |       |
| 177    | 5000             | 0.710            | 126,000                        | 7.4   | 53,100  | 8.5   | 37,900  | 10.0  | 26,400  | 11.0  |   |       |   |       |   |       |
| 186    | 5250             | 0.784            | 132,000                        | 8.6   | 60,800  | 9.5   | 43,400  | 11.0  | 31,700  | 12.5  | 10,700  | 14.5  |   |       |   |       |
| 195    | 5500             | 0.859            | 138,000                        | 9.9   | 69,400  | 10.5  | 49,000  | 12.0  | 37,400  | 14.0  | 18,600  | 16.0  |   |       |   |       |
| 204    | 5750             | 0.94             | 144,000                        | 11.5  | 77,500  | 12.0  | 54,900  | 13.5  | 43,300  | 15.0  | 24,600  | 18.0  |   |       |   |       |
| 213    | 6000             | 1.02             | 151,000                        | 13.0  | 87,100  | 13.5  | 61,000  | 15.0  | 48,900  | 16.5  | 29,800  | 19.5  | 9,930   | 22.5  |   |       |
| 222    | 6250             | 1.11             | 157,000                        | 14.5  | 96,300  | 15.0  | 68,300  | 16.5  | 53,600  | 18.0  | 34,700  | 21.5  | 18,300  | 24    |   |       |
| 230    | 6500             | 1.20             | 164,000                        | 16.5  | 105,000   | 16.5  | 76,000  | 18.0  | 60,000  | 19.5  | 40,500  | 23.5  | 25,200  | 26    |   |       |
| 239    | 6750             | 1.30             | 170,000                        | 18.0  |   |       | 85,000  | 19.5  | 65,900  | 21.5  | 46,500  | 25    | 30,900  | 28    |   |       |
| 248    | 7000             | 1.39             | 176,000                        | 20.5  |   |       | 93,200  | 21    | 72,200  | 23    | 51,500  | 27    | 35,600  | 31    |   |       |
| 266    | 7500             | 1.60             | 188,000                        | 25    |   |       | 112,000   | 26    | 87,800  | 27    | 62,500  | 32    | 46,800  | 36    | 17,200  | 42    |
| 283    | 8000             | 1.82             | 201,000                        | 30    |   |       |   |       | 105,000   | 32    | 73,400  | 36    | 58,000  | 41    | 32,100  | 48    |
| 301    | 8500             | 2.05             | 214,000                        | 36    |   |       |   |       | 123,000   | 38    | 86,500  | 41    | 69,200  | 47    | 42,200  | 56    |
| 319    | 9000             | 2.30             | 227,000                        | 43    |   |       |   |       | 143,000   | 45    | 101,000   | 47    | 79,600  | 52    | 53,300  | 64    |
| 336    | 9500             | 2.56             | 238,000                        | 50    |   |       |   |       |   |       | 118,000   | 54    | 91,300  | 58    | 64,100  | 72    |
| 354    | 10000            | 2.84             | 251,000                        | 60    |   |       |   |       |   |       | 136,000   | 62    | 106,000   | 68    | 76,500  | 80    |

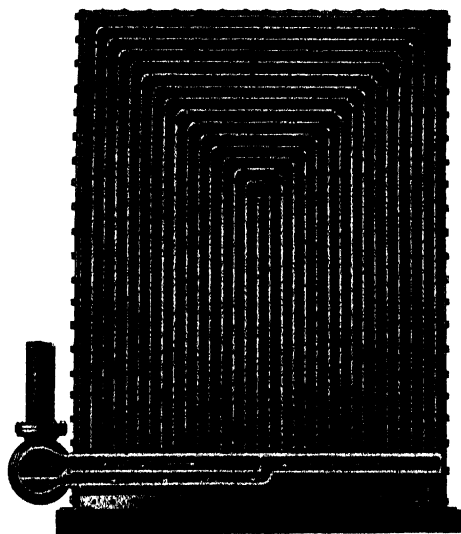
## 120" Sturtevant Disc Fan — Design 2

When Discharging Air at 65° F and Density .075 lbs. per cubic foot Against Continuously Maintained Resistances

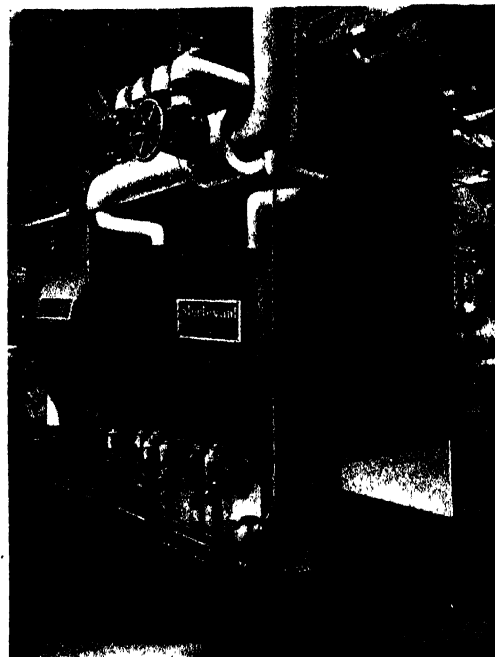
| R.P.M. | Tip Speed F.P.M. | S.N.D. in inches | Static Pressure Free Discharge | Static Pressure 1/4" Water .145 ozs. per sq. inch | Static Pressure 3/8" Water .217 ozs. per sq. inch | Static Pressure 1/2" Water .289 ozs. per sq. inch | Static Pressure 5/8" Water .344 ozs. per sq. inch | Static Pressure 3/4" Water .378 ozs. per sq. inch | Static Pressure 7/8" Water .412 ozs. per sq. inch | Static Pressure 1" Water .446 ozs. per sq. inch |
|--------|------------------|------------------|--------------------------------|---|---|---|---|---|---|---|
| 70     | 2200             | 0.137            | 68,200                         | 0.77  |   |   |   |   |   |   |
| 76     | 2400             | 0.164            | 74,500                         | 1.00  |   |   |   |   |   |   |
| 83     | 2600             | 0.192            | 80,700                         | 1.30  |   |   |   |   |   |   |
| 89     | 2800             | 0.223            | 86,700                         | 1.60  |   |   |   |   |   |   |
| 96     | 3000             | 0.256            | 93,200                         | 2.00  | 6,130   | 3.3   |   |   |   |   |
| 102    | 3200             | 0.291            | 99,400                         | 2.40  | 13,800  | 3.7   |   |   |   |   |
| 108    | 3400             | 0.328            | 106,000                        | 2.85  | 19,800  | 4.4   |   |   |   |   |
| 115    | 3600             | 0.368            | 112,000                        | 3.4   | 25,300  | 5.2   |   |   |   |   |
| 121    | 3800             | 0.410            | 118,000                        | 4.0   | 30,500  | 5.8   | 12,800  | 6.7   |   |   |
| 127    | 4000             | 0.455            | 124,000                        | 4.7   | 35,800  | 6.4   | 19,800  | 7.5   |   |   |
| 134    | 4200             | 0.501            | 131,000                        | 5.4   | 41,500  | 7.2   | 25,400  | 8.5   | 6,600   | 9.0   |
| 140    | 4400             | 0.550            | 137,000                        | 6.2   | 46,600  | 7.8   | 30,600  | 9.5   | 15,200  | 10.5  |
| 146    | 4600             | 0.601            | 143,000                        | 7.0   | 52,400  | 8.6   | 36,100  | 10.5  | 22,400  | 11.5  |
| 153    | 4800             | 0.655            | 149,000                        | 8.1   | 58,500  | 9.5   | 41,500  | 11.5  | 27,900  | 12.5  |
| 159    | 5000             | 0.710            | 155,000                        | 9.2   | 65,600  | 10.5  | 46,600  | 12.5  | 32,600  | 14.0  |
| 167    | 5250             | 0.784            | 163,000                        | 10.5  | 75,000  | 11.5  | 53,600  | 13.5  | 39,100  | 15.5  |
| 175    | 5500             | 0.859            | 171,000                        | 12.0  | 85,500  | 13.0  | 60,500  | 15.0  | 46,100  | 17.0  |
| 183    | 5750             | 0.94             | 178,000                        | 14.0  | 95,900  | 15.0  | 67,700  | 16.5  | 53,400  | 18.5  |
| 191    | 6000             | 1.02             | 186,000                        | 16.0  | 108,000   | 16.5  | 75,500  | 18.0  | 60,300  | 20.5  |
| 199    | 6250             | 1.11             | 194,000                        | 18.0  | 119,000   | 18.5  | 84,300  | 20.0  | 66,200  | 22.5  |
| 207    | 6500             | 1.20             | 202,000                        | 20.0  | 130,000   | 20.5  | 94,000  | 22.0  | 74,000  | 24.5  |
| 215    | 6750             | 1.30             | 210,000                        | 22.5  |   |   | 105,000   | 24.5  | 81,000  | 26  |
| 223    | 7000             | 1.39             | 218,000                        | 25  |   |   | 115,000   | 26  | 89,000  | 29  |
| 239    | 7500             | 1.60             | 233,000                        | 30  |   |   | 138,000   | 32  | 108,000   | 34  |
| 255    | 8000             | 1.82             | 248,000                        | 37  |   |   |   |   | 130,000   | 40  |
| 271    | 8500             | 2.05             | 264,000                        | 44  |   |   |   |   | 152,000   | 47  |
| 286    | 9000             | 2.30             | 280,000                        | 52  |   |   |   |   | 177,000   | 56  |
| 302    | 9500             | 2.56             | 295,000                        | 62  |   |   |   |   |   |   |
| 318    | 10000            | 2.84             | 310,000                        | 74  |   |   |   |   |   |   |

# **STURTEVANT HEATERS**

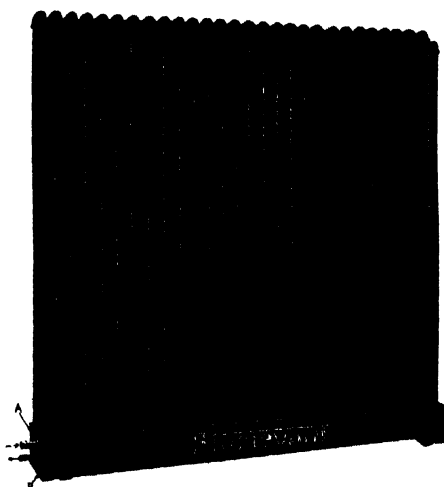
**Dimensions, Performance Tables**



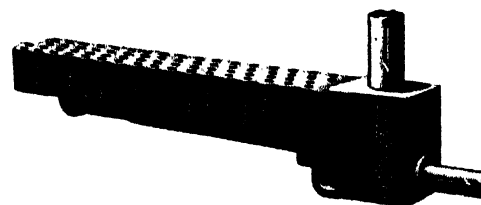
Sturtevant Heater—Regular Type



Sturtevant Fan and Mitre Type  
Heater installed



Sturtevant Heater—Return Bend Type



Base of Sturtevant London Type Heater—This type  
provides for control of individual sections

## STURTEVANT HEATER

### SPECIFICATIONS

There shall be furnished a Sturtevant Pipe Coil Heater of the.....Type, having.....lineal feet of.....inches (1 or 1¼-inch) pipe and .....square feet of free area. Heater shall be composed of .....four row sections and.....two row section. All sections shall have a nominal length of.....feet, and nominal height of pipes shall be.....feet..... inches.

A sheet steel casing of.....gauge shall be furnished, and this shall be suitably braced and stiffened.



# Heaters

## APPROXIMATE WEIGHTS

### HEATERS WITH CORRUGATED BASES

#### REGULAR, LONDON AND EXHAUST SECTIONS

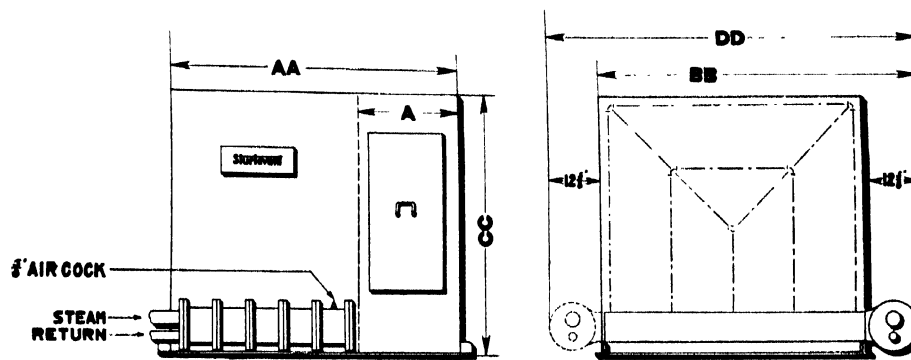
| Size of Section Feet | Height of Pipe Feet | Weight of Sections, Pounds |         |
|----------------------|---------------------|----------------------------|---------|
|                      |                     | Four Row                   | Two Row |
| 3                    | 5                   | 833                        | 453     |
| 3                    | 6                   | 948                        | 510     |
| 4                    | 5                   | 1088                       | 579     |
| 4                    | 6                   | 1242                       | 656     |
| 4                    | 7                   | 1400                       | 733     |
| 5                    | 6                   | 1570                       | 835     |
| 5                    | 7                   | 1774                       | 932     |
| 5                    | 8                   | 1967                       | 1028    |
| 6                    | 6                   | 1884                       | 970     |
| 6                    | 7                   | 2118                       | 1087    |
| 6                    | 8                   | 2352                       | 1204    |
| 6                    | 9                   | 2586                       | 1310    |

### Mitre Type Heaters

| Nominal Dimensions   |                       |                       | Weight of Sections, Pounds |         |
|----------------------|-----------------------|-----------------------|----------------------------|---------|
| Length of Base, Feet | Length of Pipes, Feet | Height of Pipes, Feet | Four Row                   | Two Row |
| 3                    | 4                     | 5                     | 1020                       | 515     |
| 4                    | 4                     | 7                     | 1530                       | 760     |
| 4                    | 4                     | 8                     | 1680                       | 840     |
| 5                    | 5                     | 8                     | 2070                       | 1090    |
| 5                    | 5                     | 10                    | 2450                       | 1275    |
| 6                    | 6                     | 8                     | 2520                       | 1320    |
| 6                    | 6                     | 10                    | 2970                       | 1550    |
| 6                    | 6                     | 12                    | 3450                       | 1785    |
| 6                    | 6                     | 10                    |                            | 1260    |
| 6                    | 6                     | 12                    |                            | 1435    |
| 7                    | 7                     | 10                    |                            | 1505    |
| 7                    | 7                     | 12                    |                            | 1710    |

# Sturtevant Heaters—Regular Type

Dimensions in Inches



| Size of Section<br>Nominal length<br>of base | Nom'l Ht.<br>Pipes<br>ft. in. | A      |       | AA  | BB | CC   | DD<br>Double<br>Group |
|--|-------------------------------|--------|-------|-----|----|------|-----------------------|
|  |                               | Single | D'ble |     |    |      |                       |
| 3 ft.  | 3-0                           | 21     | 24    | 50½ | 48 | 100  |                       |
|  | 3-6                           | 21     | 24    |     |    |      |                       |
|  | 4-0                           | 21     | 24    |     |    |      |                       |
|  | 4-6                           | 21     | 24    |     |    |      |                       |
|  | 5-0                           | 21     | 24    |     |    |      |                       |
|  | 5-6                           | 21     | 24    |     |    |      |                       |
|  | 6-0                           | 21     | 27    |     |    |      |                       |
|  | 6-6                           | 21     | 27    |     |    |      |                       |
| 4 ft.  | 3-6                           | 21     | 24    | 62½ | 54 | 125  |                       |
|  | 4-0                           | 21     | 24    |     |    |      |                       |
|  | 4-6                           | 21     | 27    |     |    |      |                       |
|  | 5-0                           | 21     | 27    |     |    |      |                       |
|  | 5-6                           | 24     | 27    |     |    |      |                       |
|  | 6-0                           | 24     | 27    |     |    |      |                       |
|  | 6-6                           | 24     | 27    |     |    |      |                       |
|  | 7-0                           | 24     | 30    |     |    |      |                       |
| 5 ft.  | 4-0                           | 21     | 27    | 75½ | 60 | 150½ |                       |
|  | 4-6                           | 24     | 27    |     |    |      |                       |
|  | 5-0                           | 24     | 27    |     |    |      |                       |
|  | 5-6                           | 24     | 27    |     |    |      |                       |
|  | 6-0                           | 24     | 30    |     |    |      |                       |
|  | 6-6                           | 27     | 30    |     |    |      |                       |
|  | 7-0                           | 27     | 30    |     |    |      |                       |
|  | 7-6                           | 27     | 30    |     |    |      |                       |
| 6 ft.  | 8-0                           | 27     | 33    | 88½ | 66 | 176  |                       |
|  | 4-6                           | 24     | 27    |     |    |      |                       |
|  | 5-0                           | 24     | 30    |     |    |      |                       |
|  | 5-6                           | 27     | 30    |     |    |      |                       |
|  | 6-0                           | 27     | 30    |     |    |      |                       |
|  | 6-6                           | 27     | 33    |     |    |      |                       |
|  | 7-0                           | 30     | 33    |     |    |      |                       |
|  | 7-6                           | 30     | 33    |     |    |      |                       |
|  | 8-0                           | 30     | 33    |     | 72 |      |                       |
|  | 8-6                           | 33     | 36    |     |    |      |                       |
|  | 9-0                           | 33     | 36    |     |    |      |                       |
|  |                               |        |       |     |    |      |                       |

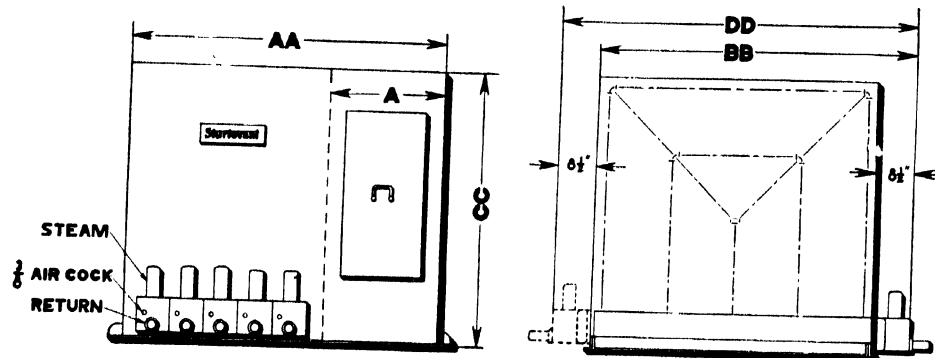
Note: Dotted lines at left of casing show location of additional header and piping, for double group heaters. Dimension "A" is length of air space.

"Single" means that heater is one section wide.

"Double" or "Double Group" means that heater is of double width and has two sections placed back-to-back.

# Sturtevant Heaters — London Type

Dimensions in Inches

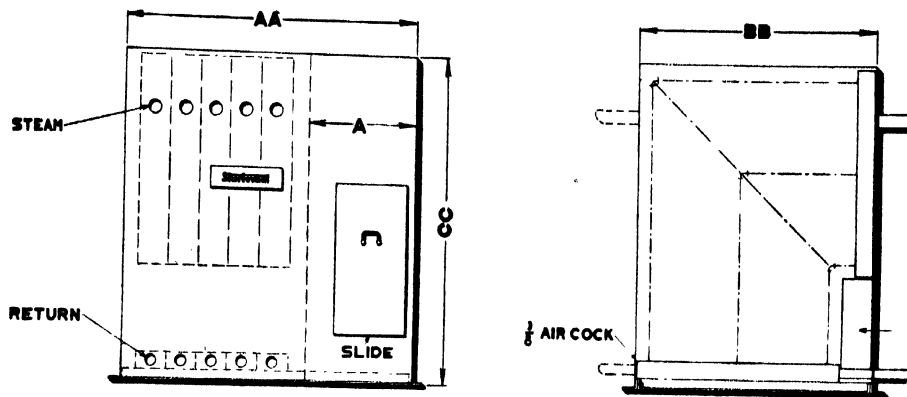


| Size of Section | Nominal length of base | Nominal height of pipes ft. in. | A      |        | AA | BB     | CC  | DD           |
|-----------------|------------------------|---------------------------------|--------|--------|----|--------|-----|--------------|
|                 |                        |                                 | Single | Double |    | Single |     | Double Group |
| 3 ft.           | 3-0                    | 21                              | 24     |        |    |        | 48  |              |
|                 | 3-6                    | 21                              | 24     |        |    |        | 54  |              |
|                 | 4-0                    | 21                              | 24     |        |    |        | 60  |              |
|                 | 4-6                    | 21                              | 24     |        |    |        | 66  |              |
|                 | 5-0                    | 21                              | 24     |        |    | 46 1/4 | 72  | 91 1/4       |
|                 | 5-6                    | 21                              | 24     |        |    |        | 78  |              |
|                 | 6-0                    | 21                              | 27     |        |    |        | 84  |              |
|                 | 3-6                    | 21                              | 24     |        |    |        | 54  |              |
| 4 ft.           | 4-0                    | 21                              | 24     |        |    |        | 60  |              |
|                 | 4-6                    | 21                              | 27     |        |    |        | 66  |              |
|                 | 5-0                    | 21                              | 27     |        |    |        | 72  |              |
|                 | 5-6                    | 24                              | 27     |        |    | 58 3/4 | 78  | 116 3/4      |
|                 | 6-0                    | 24                              | 27     |        |    |        | 84  |              |
|                 | 6-6                    | 24                              | 27     |        |    |        | 90  |              |
|                 | 7-0                    | 24                              | 30     |        |    |        | 96  |              |
|                 | 4-0                    | 21                              | 27     |        |    |        | 60  |              |
| 5 ft.           | 4-6                    | 24                              | 27     |        |    |        | 66  |              |
|                 | 5-0                    | 24                              | 27     |        |    |        | 72  |              |
|                 | 5-6                    | 24                              | 27     |        |    |        | 78  |              |
|                 | 6-0                    | 24                              | 30     |        |    | 71 1/4 | 84  | 142 1/4      |
|                 | 6-6                    | 27                              | 30     |        |    |        | 90  |              |
|                 | 7-0                    | 27                              | 30     |        |    |        | 96  |              |
|                 | 7-6                    | 27                              | 30     |        |    |        | 102 |              |
|                 | 8-0                    | 27                              | 33     |        |    |        | 108 |              |
| 6 ft.           | 4-6                    | 24                              | 27     |        |    |        | 66  |              |
|                 | 5-0                    | 24                              | 30     |        |    |        | 72  |              |
|                 | 5-6                    | 27                              | 30     |        |    |        | 78  |              |
|                 | 6-0                    | 27                              | 30     |        |    |        | 84  |              |
|                 | 6-6                    | 27                              | 33     |        |    | 84 1/4 | 90  | 167 1/4      |
|                 | 7-0                    | 30                              | 33     |        |    |        | 96  |              |
|                 | 7-6                    | 30                              | 33     |        |    |        | 102 |              |
|                 | 8-0                    | 30                              | 33     |        |    |        | 108 |              |
|                 | 8-6                    | 33                              | 36     |        |    |        | 114 |              |
|                 | 9-0                    | 33                              | 36     |        |    |        | 120 |              |

Note: Dotted lines at left of casing show location of additional header and piping for double group heaters.  
 Dimension "A" is length of air space.  
 "Single" means that heater is one section wide.  
 "Double" or "Double Group" means that heater is of double width and has two sections placed back-to-back.

# Sturtevant Heaters—Mitre Type

Dimensions in Inches



| SIZE OF SECTION               |  |  | A      |        | AA  | BB     |        | CC   |
|-------------------------------|--|--|--------|--------|---|--------|--------|------|
| Nominal Length of Case in ft. | Nominal Length of Pipes in ft. and in. | Nominal Height of Pipes in ft. and in. | Single | Double |   | Single | Double |      |
| 3                             | 3-0                                    | 5-0                                    | 21     | 24     | $AA = 7' + A + 4.125N_s + 7.75N_d$<br>$N_s = \text{No. of Two Row Sections}$<br>$N_d = \text{No. of Four Row Sections}$ | 45½    | 90     | 67½  |
|                               | 3-0                                    | 5-6                                    | 21     | 27     |   | 45½    | 90     | 73½  |
|                               | 3-0                                    | 6-0                                    | 24     | 27     |   | 45½    | 90     | 79½  |
|                               | 4-0                                    | 5-0                                    | 24     | 27     |   | 58     | 115½   | 67½  |
|                               | 4-0                                    | 5-6                                    | 24     | 27     |   | 58     | 115½   | 73½  |
| 4                             | 4-0                                    | 6-0                                    | 24     | 27     |   | 58     | 115½   | 79½  |
|                               | 4-0                                    | 7-0                                    | 27     | 30     |   | 58     | 115½   | 92   |
|                               | 4-0                                    | 8-0                                    | 27     | 30     |   | 58     | 115½   | 103½ |
|                               | 5-0                                    | 6-0                                    | 27     | 30     |   | 70½    | 141    | 79½  |
| 5                             | 5-0                                    | 7-0                                    | 27     | 33     |   | 70½    | 141    | 92   |
|                               | 5-0                                    | 8-0                                    | 30     | 33     |   | 70½    | 141    | 103½ |
|                               | 5-0                                    | 9-0                                    | 33     | 33     |   | 70½    | 141    | 115½ |
|                               | 5-0                                    | 10-0                                   | 33     | 36     |   | 70½    | 141    | 127  |
|                               | 6-0                                    | 7-0                                    | 30     | 33     |   | 83½    | 166½   | 92   |
| 6                             | 6-0                                    | 8-0                                    | 33     | 36     |   | 83½    | 166½   | 103½ |
|                               | 6-0                                    | 9-0                                    | 33     | 36     |   | 83½    | 166½   | 115½ |
|                               | 6-0                                    | 10-0                                   | 36     | 39     |   | 83½    | 166½   | 127  |
|                               | 6-0                                    | 11-0                                   | 39     | 39     |   | 83½    | 166½   | 139½ |
|                               | 6-0                                    | 12-0                                   | 39     | 42     |   | 83½    | 166½   | 151½ |

Note: Dotted lines outside of casing show location of additional piping for double group of heaters.

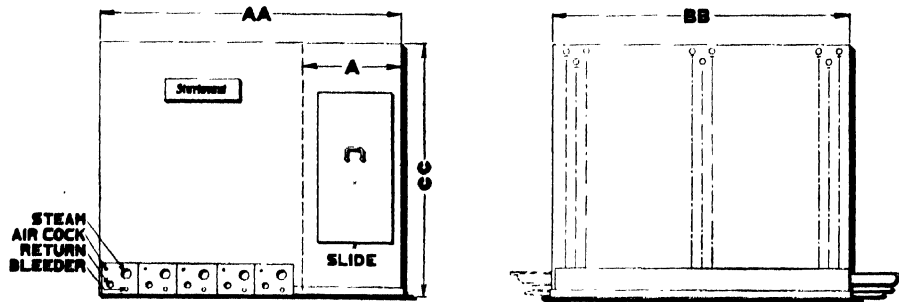
Dimension "A" is length of air space.

"Single" means that heater has a width of one section.

"Double Group" means that heater is of double width having two sections placed back-to-back.

# Sturtevant Heaters—Return Bend Type

Dimensions in Inches

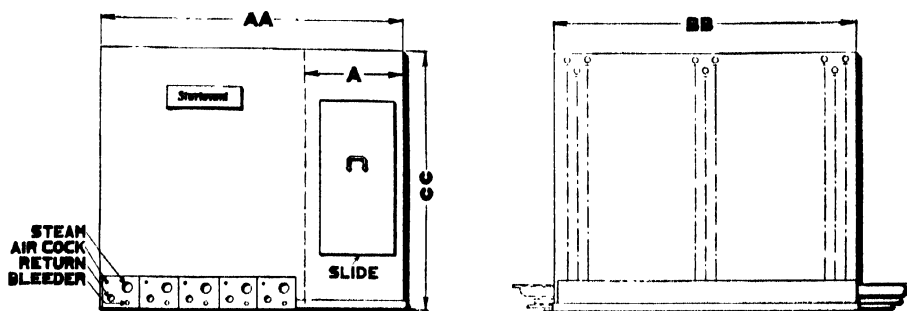


| Sz. of Section              |     |                  |    |           |      | Sz. of Section  |     |           |     |         |     | Sz. of Section              |     |                  |    |           |      |
|-----------------------------|-----|------------------|----|-----------|------|---|-----|-----------|-----|---------|-----|-----------------------------|-----|------------------|----|-----------|------|
| Nom'l Sz. and L'gth of Base |     | Nom'l Hgt. Pipes |    | A         |      | AA  |     | BB        |     | CC      |     | Nom'l Sz. and L'gth of Base |     | Nom'l Hgt. Pipes |    | A         |      |
| ft. in.                     |     | ft. in.          |    | S'gl D'bl |      | S'gl D'bl   |     | S'gl D'bl |     | ft. in. |     | ft. in.                     |     | ft. in.          |    | S'gl D'bl |      |
| No. 12                      | 2-9 | 21               | 24 | 35½       | 70½  | AA=4' + A + 9.25N <sub>t</sub><br>N <sub>t</sub> =Number of Four Row Sections | 41½ | 53½       | 62½ | 65½     | 74½ | No. 15                      | 4-9 | 21               | 24 | 43½       | 87½  |
|                             | 3-0 | 21               | 24 |           |      |   |     |           |     |         |     |                             | 5-0 | 21               | 27 |           |      |
|                             | 3-3 | 21               | 24 |           |      |   |     |           |     |         |     |                             | 5-3 | 21               | 27 |           |      |
|                             | 3-6 | 21               | 24 |           |      |   |     |           |     |         |     |                             | 5-6 | 21               | 27 |           |      |
|                             | 3-9 | 21               | 24 |           |      |   |     |           |     |         |     |                             | 5-9 | 24               | 27 |           |      |
|                             | 4-0 | 21               | 24 |           |      |   |     |           |     |         |     |                             | 6-0 | 24               | 27 |           |      |
|                             | 4-3 | 21               | 24 |           |      |   |     |           |     |         |     |                             | 6-6 | 24               | 27 |           |      |
|                             | 4-6 | 21               | 24 |           |      |   |     |           |     |         |     |                             | 7-0 | 24               | 27 |           |      |
|                             | 4-9 | 21               | 24 |           |      |   |     |           |     |         |     |                             | 7-6 | 24               | 27 |           |      |
|                             | 5-0 | 21               | 24 |           |      |   |     |           |     |         |     |                             | 8-0 | 24               | 30 |           |      |
|                             | 5-3 | 21               | 24 |           |      |   |     |           |     |         |     |                             | 8-6 | 24               | 27 |           |      |
|                             | 5-6 | 21               | 24 |           |      |   |     |           |     |         |     |                             | 9-0 | 27               | 33 |           |      |
| No. 15                      | 2-9 | 21               | 24 | 43½       | 87½  | AA=4' + A + 9.25N <sub>t</sub><br>N <sub>t</sub> =Number of Four Row Sections | 41½ | 53½       | 62½ | 65½     | 74½ | No. 18                      | 4-9 | 21               | 24 | 51½       | 103½ |
|                             | 3-0 | 21               | 24 |           |      |   |     |           |     |         |     |                             | 5-0 | 21               | 27 |           |      |
|                             | 3-3 | 21               | 24 |           |      |   |     |           |     |         |     |                             | 5-3 | 21               | 27 |           |      |
|                             | 3-6 | 21               | 24 |           |      |   |     |           |     |         |     |                             | 5-6 | 21               | 27 |           |      |
|                             | 3-9 | 21               | 24 |           |      |   |     |           |     |         |     |                             | 5-9 | 24               | 27 |           |      |
|                             | 4-0 | 21               | 24 |           |      |   |     |           |     |         |     |                             | 6-0 | 24               | 27 |           |      |
|                             | 4-3 | 21               | 24 |           |      |   |     |           |     |         |     |                             | 6-6 | 24               | 27 |           |      |
|                             | 4-6 | 21               | 24 |           |      |   |     |           |     |         |     |                             | 7-0 | 24               | 27 |           |      |
|                             | 4-9 | 21               | 24 |           |      |   |     |           |     |         |     |                             | 7-6 | 24               | 27 |           |      |
|                             | 5-0 | 21               | 24 |           |      |   |     |           |     |         |     |                             | 8-0 | 24               | 30 |           |      |
|                             | 5-3 | 21               | 24 |           |      |   |     |           |     |         |     |                             | 8-6 | 24               | 27 |           |      |
|                             | 5-6 | 21               | 24 |           |      |   |     |           |     |         |     |                             | 9-0 | 27               | 33 |           |      |
| No. 18                      | 2-9 | 21               | 24 | 62½       | 125½ | AA=4' + A + 9.25N <sub>t</sub><br>N <sub>t</sub> =Number of Four Row Sections | 41½ | 53½       | 62½ | 65½     | 74½ | No. 22                      | 4-9 | 21               | 24 | 62½       | 125½ |
|                             | 3-0 | 21               | 24 |           |      |   |     |           |     |         |     |                             | 5-0 | 24               | 27 |           |      |
|                             | 3-3 | 21               | 24 |           |      |   |     |           |     |         |     |                             | 5-3 | 24               | 27 |           |      |
|                             | 3-6 | 21               | 24 |           |      |   |     |           |     |         |     |                             | 5-6 | 24               | 30 |           |      |
|                             | 3-9 | 21               | 24 |           |      |   |     |           |     |         |     |                             | 5-9 | 24               | 30 |           |      |
|                             | 4-0 | 21               | 24 |           |      |   |     |           |     |         |     |                             | 6-0 | 27               | 30 |           |      |
|                             | 4-3 | 21               | 24 |           |      |   |     |           |     |         |     |                             | 6-6 | 27               | 30 |           |      |
|                             | 4-6 | 21               | 24 |           |      |   |     |           |     |         |     |                             | 7-0 | 27               | 30 |           |      |
|                             | 4-9 | 21               | 24 |           |      |   |     |           |     |         |     |                             | 7-6 | 27               | 33 |           |      |
|                             | 5-0 | 21               | 24 |           |      |   |     |           |     |         |     |                             | 8-0 | 30               | 33 |           |      |
|                             | 5-3 | 21               | 24 |           |      |   |     |           |     |         |     |                             | 8-6 | 30               | 33 |           |      |
|                             | 5-6 | 21               | 24 |           |      |   |     |           |     |         |     |                             | 9-0 | 30               | 33 |           |      |

NOTE: Dotted lines at left of casing show location of additional headers and piping for double group heaters. Dimension "A" is length of air space. "Single" means that heater consists of a single section. "Double" means that heater is of double width, having two sections placed back-to-back.

# Sturtevant Heaters—Return Bend Type—Continued

Dimensions in Inches



| Sz. of Section                |                      |      |      |        | Sz. of Section |         |                              |                             |                      | Sz. of Section |        |         |         |      |    |                             |                              |         |      |    |         |         |         |      |      |
|-------------------------------|----------------------|------|------|--------|----------------|---------|------------------------------|-----------------------------|----------------------|----------------|--------|---------|---------|------|----|-----------------------------|------------------------------|---------|------|----|---------|---------|---------|------|------|
| Nom'l Sz. and L'gth of Base   | Nom'l Hgt. Pipes in. | A    |      | AA     | S'gl           | D'bl    | CC                           | Nom'l Sz. and L'gth of Base | Nom'l Hgt. Pipes in. | A              |        | AA      | S'gl    | D'bl | CC | Nom'l Sz. and L'gth of Base | Nom'l Hgt. Pipes in.         | A       |      | AA | S'gl    | D'bl    | CC      |      |      |
|                               |                      | S'gl | D'bl |        |                |         |                              |                             |                      | S'gl           | D'bl   |         |         |      |    |                             |                              | S'gl    | D'bl |    |         |         |         | S'gl | D'bl |
| No. 25<br>5 ft.<br>10 1/2 in. | 3-0                  | 21   | 27   | 71     | 142 1/2        | 15 1/2  | No. 28<br>6 ft.<br>7 1/2 in. | 4-6                         | 21                   | 30             | 79 1/2 | 158 1/2 | 63 1/2  | 8-0  | 33 | 36                          | No. 36<br>8 ft.<br>5 1/2 in. | 8-0     | 33   | 36 | 101 1/2 | 202 1/2 | 105 1/2 |      |      |
|                               | 3-3                  | 21   | 27   |        |                | 48 1/2  |                              | 4-9                         | 27                   | 30             |        |         | 66 1/2  | 8-6  | 36 | 36                          |                              | 111 1/2 |      |    |         |         |         |      |      |
|                               | 3-6                  | 24   | 27   |        |                | 51 1/2  |                              | 5-0                         | 27                   | 30             |        |         | 69 1/2  | 9-0  | 36 | 39                          |                              | 117 1/2 |      |    |         |         |         |      |      |
|                               | 3-9                  | 24   | 27   |        |                | 54 1/2  |                              | 5-3                         | 27                   | 30             |        |         | 72 1/2  | 10-0 | 39 | 39                          |                              | 129 1/2 |      |    |         |         |         |      |      |
|                               | 4-0                  | 24   | 27   |        |                | 57 1/2  |                              | 5-6                         | 27                   | 30             |        |         | 75 1/2  | 11-0 | 39 | 42                          |                              | 141 1/2 |      |    |         |         |         |      |      |
|                               | 4-3                  | 21   | 27   |        |                | 60 1/2  |                              | 5-9                         | 27                   | 33             |        |         | 78 1/2  | 5-6  | 30 | 33                          |                              | 75 1/2  |      |    |         |         |         |      |      |
|                               | 4-6                  | 24   | 27   |        |                | 63 1/2  |                              | 6-0                         | 27                   | 33             |        |         | 81 1/2  | 5-9  | 30 | 33                          |                              | 78 1/2  |      |    |         |         |         |      |      |
|                               | 4-9                  | 24   | 30   |        |                | 66 1/2  |                              | 6-6                         | 30                   | 33             |        |         | 87 1/2  | 6-0  | 33 | 36                          |                              | 81 1/2  |      |    |         |         |         |      |      |
|                               | 5-0                  | 24   | 30   |        |                | 69 1/2  |                              | 7-0                         | 30                   | 33             |        |         | 93 1/2  | 6-6  | 33 | 36                          |                              | 87 1/2  |      |    |         |         |         |      |      |
|                               | 5-3                  | 27   | 30   |        |                | 72 1/2  |                              | 7-6                         | 30                   | 33             |        |         | 99 1/2  | 7-0  | 33 | 36                          |                              | 93 1/2  |      |    |         |         |         |      |      |
|                               | 5-6                  | 27   | 30   |        |                | 75 1/2  |                              | 8-0                         | 33                   | 36             |        |         | 105 1/2 | 7-6  | 36 | 39                          |                              | 99 1/2  |      |    |         |         |         |      |      |
|                               | 5-9                  | 27   | 30   |        |                | 78 1/2  |                              | 8-6                         | 33                   | 36             |        |         | 111 1/2 | 8-0  | 36 | 39                          |                              | 105 1/2 |      |    |         |         |         |      |      |
|                               | 6-0                  | 27   | 30   |        |                | 81 1/2  |                              | 9-0                         | 33                   | 36             |        |         | 117 1/2 | 8-6  | 39 | 39                          |                              | 111 1/2 |      |    |         |         |         |      |      |
|                               | 6-6                  | 27   | 33   |        |                | 87 1/2  |                              | 10-0                        | 36                   | 39             |        |         | 129 1/2 | 9-0  | 39 | 42                          |                              | 117 1/2 |      |    |         |         |         |      |      |
|                               | 7-0                  | 30   | 33   |        |                | 93 1/2  |                              | 11-0                        | 39                   | 39             |        |         | 141 1/2 | 10-0 | 39 | 42                          |                              | 129 1/2 |      |    |         |         |         |      |      |
|                               | 7-6                  | 30   | 33   |        |                | 99 1/2  |                              | 4-0                         | 24                   | 30             |        |         | 57 1/2  | 11-0 | 42 | 45                          |                              | 141 1/2 |      |    |         |         |         |      |      |
| No. 23<br>6 ft.<br>7 1/2 in.  | 8-0                  | 30   | 33   | 79 1/2 | 158 1/2        | 105 1/2 | No. 31<br>7 ft.<br>3 1/2 in. | 4-3                         | 27                   | 30             | 87 1/2 | 175 1/2 | 60 1/2  | 12-0 | 42 | 48                          | No. 40<br>9 ft.<br>4 1/2 in. | 12-0    | 42   | 48 | 112 1/2 | 224 1/2 | 117 1/2 |      |      |
|                               | 8-6                  | 30   | 36   |        |                | 111 1/2 |                              | 4-6                         | 27                   | 30             |        |         | 63 1/2  | 7-0  | 36 | 39                          |                              | 100 1/2 |      |    |         |         |         |      |      |
|                               | 9-0                  | 33   | 36   |        |                | 117 1/2 |                              | 4-9                         | 27                   | 30             |        |         | 66 1/2  | 7-6  | 36 | 39                          |                              | 106 1/2 |      |    |         |         |         |      |      |
|                               | 10-0                 | 33   | 36   |        |                | 129 1/2 |                              | 5-0                         | 27                   | 30             |        |         | 69 1/2  | 8-0  | 39 | 39                          |                              | 112 1/2 |      |    |         |         |         |      |      |
|                               | 3-6                  | 24   | 27   |        |                | 51 1/2  |                              | 5-3                         | 27                   | 33             |        |         | 72 1/2  | 8-6  | 39 | 42                          |                              | 118 1/2 |      |    |         |         |         |      |      |
|                               | 3-9                  | 24   | 27   |        |                | 54 1/2  |                              | 5-6                         | 27                   | 33             |        |         | 75 1/2  | 9-0  | 39 | 42                          |                              | 124 1/2 |      |    |         |         |         |      |      |
|                               | 4-0                  | 24   | 27   |        |                | 57 1/2  |                              | 5-9                         | 30                   | 33             |        |         | 78 1/2  | 9-6  | 39 | 42                          |                              | 130 1/2 |      |    |         |         |         |      |      |
|                               | 4-3                  | 24   | 30   |        |                | 60 1/2  |                              | 6-0                         | 30                   | 33             |        |         | 81 1/2  | 10-0 | 42 | 45                          |                              | 142 1/2 |      |    |         |         |         |      |      |
|                               |                      |      |      |        |                |         |                              | 6-6                         | 30                   | 33             |        |         | 87 1/2  | 11-0 | 42 | 48                          |                              | 154 1/2 |      |    |         |         |         |      |      |
|                               |                      |      |      |        |                |         |                              | 7-0                         | 33                   | 36             |        |         | 93 1/2  |      |    |                             |                              |         |      |    |         |         |         |      |      |
|                               |                      |      |      |        |                |         |                              | 7-6                         | 33                   | 36             |        |         | 99 1/2  |      |    |                             |                              |         |      |    |         |         |         |      |      |

NOTE: Dotted lines at left of casing show location of additional headers and piping for double group heaters.  
 Dimension "A" is length of air space.  
 "Single" means that heater consists of a single section. "Double" means that heater is of double width, having two sections placed back-to-back.

# Sturtevant Heaters — Return Bend Type

Heating Surface, Free Areas, Dimensions and Weights  
1-inch Pipes Spaced on 2 3/4-inch Centers

| Size of Section                    |                         | Square Feet of Heating Surface | Equivalent 1 inch Pipe in Feet | Weight of Section in pounds | Free Area through Section in Sq. Feet | Size of Section                   |                         | Square Feet of Heating Surface | Equivalent 1 inch Pipe in Feet | Weight of Section in pounds | Free Area through Section in Sq. Feet |
|------------------------------------|-------------------------|--------------------------------|--------------------------------|-----------------------------|---------------------------------------|-----------------------------------|-------------------------|--------------------------------|--------------------------------|-----------------------------|---------------------------------------|
| Nominal Size and Length of Base    | Nominal Height of Pipes |                                |                                |                             |                                       | Nominal Size and Length of Base   | Nominal Height of Pipes |                                |                                |                             |                                       |
|                                    | Ft. Ins.                |                                |                                |                             |                                       |                                   | Ft. Ins.                |                                |                                |                             |                                       |
| <b>No. 12</b><br>1 ft. 11 1/8 ins. | 2 9                     | 48                             | 139                            | 447                         | 4.80                                  | <b>No. 15</b><br>3 ft. 7 3/8 ins. | 2 9                     | 60                             | 174                            | 556                         | 5.80                                  |
|                                    | 3 0                     | 52                             | 151                            | 468                         | 5.19                                  |                                   | 3 0                     | 65                             | 189                            | 580                         | 6.27                                  |
|                                    | 3 3                     | 56                             | 163                            | 488                         | 5.58                                  |                                   | 3 3                     | 70                             | 204                            | 605                         | 6.74                                  |
|                                    | 3 6                     | 61                             | 175                            | 508                         | 5.97                                  |                                   | 3 6                     | 76                             | 219                            | 630                         | 7.21                                  |
|                                    | 3 9                     | 65                             | 187                            | 528                         | 6.36                                  |                                   | 3 9                     | 81                             | 234                            | 655                         | 7.68                                  |
|                                    | 4 0                     | 69                             | 199                            | 548                         | 6.75                                  |                                   | 4 0                     | 86                             | 249                            | 680                         | 8.15                                  |
|                                    | 4 3                     | 73                             | 211                            | 568                         | 7.14                                  |                                   | 4 3                     | 91                             | 264                            | 705                         | 8.62                                  |
|                                    | 4 6                     | 77                             | 223                            | 588                         | 7.53                                  |                                   | 4 6                     | 96                             | 279                            | 730                         | 9.09                                  |
|                                    | 4 9                     | 81                             | 235                            | 608                         | 7.92                                  |                                   | 4 9                     | 101                            | 294                            | 755                         | 9.56                                  |
|                                    | 5 0                     | 85                             | 247                            | 628                         | 8.31                                  |                                   | 5 0                     | 107                            | 309                            | 780                         | 10.03                                 |
|                                    | 5 3                     | 90                             | 259                            | 648                         | 8.70                                  |                                   | 5 3                     | 112                            | 324                            | 805                         | 10.50                                 |
|                                    | 5 6                     | 94                             | 271                            | 668                         | 9.09                                  |                                   | 5 6                     | 117                            | 339                            | 830                         | 10.97                                 |
| <b>No. 18</b><br>4 ft. 3 5/8 ins.  | 5 9                     | 98                             | 283                            | 688                         | 9.48                                  | <b>No. 22</b><br>5 ft. 2 5/8 ins. | 5 9                     | 122                            | 354                            | 855                         | 11.44                                 |
|                                    | 6 0                     | 102                            | 296                            | 708                         | 9.87                                  |                                   | 6 0                     | 127                            | 369                            | 880                         | 11.91                                 |
|                                    | 6 3                     | 110                            | 320                            | 748                         | 10.65                                 |                                   | 6 3                     | 138                            | 399                            | 930                         | 12.85                                 |
|                                    | 6 6                     | 119                            | 345                            | 788                         | 11.43                                 |                                   | 6 6                     | 148                            | 429                            | 980                         | 13.79                                 |
|                                    | 6 9                     |                                |                                |                             |                                       |                                   | 7 0                     | 158                            | 459                            | 1030                        | 14.73                                 |
|                                    | 7 0                     |                                |                                |                             |                                       |                                   | 8 0                     | 169                            | 490                            | 1080                        | 15.67                                 |
|                                    | 7 3                     | 72                             | 209                            | 654                         | 6.93                                  |                                   | 3 0                     | 95                             | 275                            | 840                         | 8.94                                  |
|                                    | 7 6                     | 78                             | 227                            | 684                         | 7.49                                  |                                   | 3 3                     | 103                            | 297                            | 877                         | 9.61                                  |
|                                    | 7 9                     | 85                             | 245                            | 714                         | 8.05                                  |                                   | 3 6                     | 110                            | 319                            | 914                         | 10.28                                 |
|                                    | 8 0                     | 91                             | 263                            | 744                         | 8.61                                  |                                   | 3 9                     | 118                            | 341                            | 951                         | 10.95                                 |
|                                    | 8 3                     | 97                             | 281                            | 774                         | 9.17                                  |                                   | 4 0                     | 125                            | 363                            | 988                         | 11.62                                 |
|                                    | 8 6                     | 103                            | 299                            | 804                         | 9.73                                  |                                   | 4 3                     | 133                            | 385                            | 1025                        | 12.29                                 |
| <b>No. 25</b><br>4 ft. 10 7/8 ins. | 8 9                     | 109                            | 317                            | 834                         | 10.29                                 |                                   | 4 6                     | 141                            | 407                            | 1062                        | 12.96                                 |
|                                    | 9 0                     | 116                            | 335                            | 864                         | 10.85                                 |                                   | 4 9                     | 148                            | 429                            | 1099                        | 14.63                                 |
|                                    | 9 3                     | 122                            | 353                            | 894                         | 11.41                                 | <b>No. 28</b><br>6 ft. 7 1/8 ins. | 5 0                     | 156                            | 451                            | 1136                        | 15.30                                 |
|                                    | 9 6                     | 128                            | 371                            | 924                         | 11.97                                 |                                   | 5 3                     | 163                            | 473                            | 1173                        | 15.97                                 |
|                                    | 9 9                     | 134                            | 389                            | 954                         | 12.53                                 |                                   | 5 6                     | 171                            | 495                            | 1210                        | 16.64                                 |
|                                    | 10 0                    | 140                            | 407                            | 984                         | 13.09                                 |                                   | 5 9                     | 179                            | 517                            | 1247                        | 17.31                                 |
|                                    | 10 3                    | 147                            | 425                            | 1014                        | 13.65                                 |                                   | 6 0                     | 186                            | 539                            | 1284                        | 17.98                                 |
|                                    | 10 6                    | 153                            | 443                            | 1044                        | 14.21                                 |                                   | 6 3                     | 201                            | 582                            | 1358                        | 19.32                                 |
|                                    | 10 9                    | 165                            | 479                            | 1104                        | 15.33                                 |                                   | 6 6                     | 216                            | 626                            | 1432                        | 20.66                                 |
|                                    | 11 0                    | 178                            | 515                            | 1164                        | 16.45                                 |                                   | 7 0                     | 232                            | 670                            | 1506                        | 22.00                                 |
|                                    | 11 3                    | 190                            | 551                            | 1224                        | 17.57                                 |                                   | 8 0                     | 247                            | 714                            | 1580                        | 23.34                                 |
|                                    | 11 6                    | 202                            | 587                            | 1284                        | 18.69                                 |                                   | 8 6                     | 262                            | 758                            | 1654                        | 24.68                                 |
|                                    | 11 9                    | 215                            | 623                            | 1344                        | 19.81                                 |                                   | 9 0                     | 277                            | 802                            | 1728                        | 26.02                                 |
|                                    | 12 0                    | 227                            | 659                            | 1404                        | 20.93                                 |                                   | 10 0                    | 307                            | 890                            | 1876                        | 28.70                                 |
| <b>No. 25</b><br>4 ft. 10 7/8 ins. | 3 0                     | 108                            | 313                            | 983                         | 10.06                                 | <b>No. 28</b><br>6 ft. 7 1/8 ins. | 3 6                     | 140                            | 407                            | 1176                        | 12.92                                 |
|                                    | 3 3                     | 117                            | 338                            | 1005                        | 10.82                                 |                                   | 3 9                     | 150                            | 435                            | 1223                        | 13.76                                 |
|                                    | 3 6                     | 125                            | 363                            | 1047                        | 11.58                                 |                                   | 4 0                     | 160                            | 463                            | 1270                        | 14.60                                 |
|                                    | 3 9                     | 134                            | 388                            | 1089                        | 12.34                                 |                                   | 4 3                     | 169                            | 491                            | 1317                        | 15.44                                 |
|                                    | 4 0                     | 142                            | 413                            | 1131                        | 13.10                                 |                                   | 4 6                     | 179                            | 519                            | 1364                        | 16.28                                 |
|                                    | 4 3                     | 151                            | 438                            | 1173                        | 13.82                                 |                                   | 4 9                     | 189                            | 547                            | 1411                        | 17.12                                 |
|                                    | 4 6                     | 160                            | 463                            | 1215                        | 14.62                                 |                                   | 5 0                     | 198                            | 575                            | 1458                        | 17.96                                 |
|                                    | 4 9                     | 168                            | 488                            | 1257                        | 15.38                                 |                                   | 5 3                     | 208                            | 603                            | 1505                        | 18.80                                 |
|                                    | 5 0                     | 177                            | 513                            | 1299                        | 16.14                                 |                                   | 5 6                     | 218                            | 631                            | 1552                        | 19.64                                 |
|                                    | 5 3                     | 186                            | 538                            | 1341                        | 16.90                                 |                                   | 5 9                     | 227                            | 669                            | 1599                        | 20.48                                 |
|                                    | 5 6                     | 194                            | 563                            | 1383                        | 17.66                                 |                                   | 6 0                     | 237                            | 697                            | 1646                        | 21.32                                 |
|                                    | 5 9                     | 203                            | 588                            | 1425                        | 18.42                                 |                                   | 6 6                     | 256                            | 753                            | 1740                        | 23.00                                 |
| <b>No. 25</b><br>4 ft. 10 7/8 ins. | 6 0                     | 211                            | 613                            | 1467                        | 19.18                                 |                                   | 7 0                     | 276                            | 809                            | 1834                        | 24.68                                 |
|                                    | 6 3                     | 229                            | 663                            | 1551                        | 20.70                                 |                                   | 7 6                     | 295                            | 865                            | 1928                        | 26.36                                 |
|                                    | 6 6                     | 246                            | 713                            | 1635                        | 22.22                                 |                                   | 8 0                     | 314                            | 921                            | 2022                        | 28.04                                 |
|                                    | 6 9                     | 263                            | 763                            | 1719                        | 23.74                                 |                                   | 8 6                     | 333                            | 977                            | 2116                        | 29.72                                 |
|                                    | 7 0                     | 280                            | 813                            | 1803                        | 25.26                                 |                                   | 9 0                     | 353                            | 1033                           | 2210                        | 31.40                                 |
|                                    | 7 3                     | 298                            | 863                            | 1887                        | 26.78                                 |                                   | 10 0                    | 391                            | 1145                           | 2398                        | 34.76                                 |
|                                    | 7 6                     | 315                            | 913                            | 1971                        | 28.30                                 |                                   | 11 0                    | 429                            | 1257                           | 2586                        | 38.12                                 |
|                                    | 7 9                     | 349                            | 1013                           | 2139                        | 31.34                                 |                                   |                         |                                |                                |                             |                                       |

1. All sections contain four rows.

2. The overall height of a heater above the bottom of the base is determined by adding to the nominal height of pipes one of the following constants:

For sizes Nos. 12, 15 and 18 add 8 5/8 inches.

For sizes Nos. 22, 25 and 28 add 9 3/8 inches.

For sizes Nos. 31 and 36 add 9 7/8 inches.

For size No. 40 add 10 1/4 inches.

This additional height is due to the space occupied by the base and by the elbow at the top.

Note:—Free Area is approximately 9% of heating surface. The percentage varies slightly for every heater.

These notes also refer to continuation of this table at top of following page.





# Sturtevant Heaters

## (All Types Except Return Bend)

**Steam Pressure**  
0 Pounds Gauge

**Final Temperatures and Condensations**

**Steam Temperature**  
212° F.

| in Feet per minute<br>at 65 Degrees F. | Temperature of<br>Entering Air<br>Degrees F. | Number of 4-Row Sections Deep |      |        |      |        |      |        |      |        |      |        |      |        |      |
|--|--|-------------------------------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|
|  |  | 1                             |      | 2      |      | 3      |      | 4      |      | 5      |      | 6      |      | 7      |      |
|  |  | F. T.*                        | C.†  | F. T.* | C.†  | F. T.* | C.†  | F. T.* | C.†  | F. T.* | C.†  | F. T.* | C.†  | F. T.* | C.†  |
| 100                                    | -40  | 17                            | 2 09 | 56     | 1 76 | 83     | 1 50 | 104    | 1 32 | 120    | 1 17 | 133    | 1 06 | 144    | 0 96 |
|  | -30  | 23                            | 1 94 | 59     | 1 63 | 86     | 1 42 | 107    | 1 25 | 122    | 1 11 | 135    | 1 01 | 145    | 0 92 |
|  | -20  | 30                            | 1 83 | 64     | 1 54 | 90     | 1 34 | 110    | 1 20 | 125    | 1 06 | 136    | 0 95 | 146    | 0 87 |
|  | -10  | 36                            | 1 68 | 69     | 1 45 | 93     | 1 26 | 112    | 1 12 | 127    | 1 00 | 138    | 0 90 | 147    | 0 82 |
|  | 0  | 43                            | 1 58 | 73     | 1 34 | 97     | 1 18 | 115    | 1 05 | 129    | 0 95 | 140    | 0 86 | 148    | 0 76 |
|  | 10   | 50                            | 1 47 | 79     | 1 26 | 101    | 1 11 | 118    | 0 99 | 131    | 0 89 | 142    | 0 81 | 151    | 0 74 |
|  | 20   | 57                            | 1 36 | 84     | 1 17 | 105    | 1 04 | 121    | 0 92 | 134    | 0 84 | 144    | 0 76 | 153    | 0 70 |
|  | 30   | 64                            | 1 25 | 90     | 1 10 | 109    | 0 96 | 125    | 0 87 | 136    | 0 78 | 146    | 0 71 | 155    | 0 65 |
|  | 40   | 71                            | 1 14 | 95     | 1 01 | 114    | 0 90 | 128    | 0 81 | 139    | 0 73 | 148    | 0 66 | 157    | 0 61 |
|  | 50   | 79                            | 1 06 | 101    | 0 93 | 118    | 0 84 | 131    | 0 74 | 142    | 0 67 | 151    | 0 62 | 159    | 0 57 |
|  | 60   | 86                            | 0 95 | 107    | 0 86 | 123    | 0 77 | 135    | 0 69 | 145    | 0 62 | 154    | 0 57 | 161    | 0 53 |
|  | 70   | 91                            | 0 88 | 113    | 0 79 | 127    | 0 70 | 139    | 0 63 | 148    | 0 57 | 156    | 0 53 | 163    | 0 49 |
|  | -40  | 13                            | 2 59 | 50     | 2 20 | 77     | 1 90 | 97     | 1 67 | 114    | 1 50 | 127    | 1 36 | 138    | 1 24 |
|  | -30  | 19                            | 2 39 | 54     | 2 05 | 80     | 1 79 | 100    | 1 59 | 116    | 1 43 | 129    | 1 29 | 140    | 1 19 |
|  | -20  | 26                            | 2 25 | 59     | 1 93 | 84     | 1 69 | 103    | 1 50 | 118    | 1 35 | 131    | 1 23 | 142    | 1 13 |
|  | -10  | 33                            | 2 10 | 65     | 1 83 | 88     | 1 39 | 106    | 1 42 | 121    | 1 28 | 133    | 1 16 | 143    | 1 07 |
| 200                                    | 0  | 41                            | 2 00 | 70     | 1 71 | 92     | 1 50 | 109    | 1 33 | 124    | 1 21 | 135    | 1 10 | 145    | 1 01 |
|  | 10   | 47                            | 1 81 | 75     | 1 59 | 96     | 1 40 | 113    | 1 26 | 126    | 1 13 | 137    | 1 03 | 147    | 0 96 |
|  | 20   | 55                            | 1 71 | 81     | 1 49 | 100    | 1 30 | 116    | 1 17 | 129    | 1 06 | 140    | 0 98 | 149    | 0 90 |
|  | 30   | 62                            | 1 56 | 86     | 1 37 | 105    | 1 22 | 120    | 1 10 | 132    | 1 00 | 142    | 0 91 | 150    | 0 84 |
|  | 40   | 69                            | 1 42 | 91     | 1 25 | 109    | 1 12 | 123    | 1 01 | 135    | 0 93 | 145    | 0 85 | 153    | 0 79 |
|  | 50   | 77                            | 1 32 | 97     | 1 17 | 114    | 1 04 | 127    | 0 94 | 138    | 0 86 | 147    | 0 79 | 155    | 0 73 |
|  | 60   | 84                            | 1 17 | 103    | 1 05 | 119    | 0 96 | 131    | 0 87 | 142    | 0 80 | 150    | 0 73 | 157    | 0 68 |
|  | 70   | 92                            | 1 07 | 109    | 0 95 | 123    | 0 86 | 135    | 0 79 | 145    | 0 73 | 153    | 0 68 | 160    | 0 63 |
|  | -40  | 9                             | 2 99 | 45     | 2 60 | 71     | 2 26 | 92     | 2 02 | 109    | 1 82 | 123    | 1 66 | 134    | 1 52 |
|  | -30  | 16                            | 2 81 | 49     | 2 41 | 75     | 2 14 | 95     | 1 91 | 111    | 1 72 | 125    | 1 58 | 136    | 1 45 |
|  | -20  | 24                            | 2 69 | 55     | 2 29 | 80     | 2 04 | 99     | 1 82 | 115    | 1 65 | 127    | 1 50 | 138    | 1 38 |
|  | -10  | 31                            | 2 50 | 61     | 2 17 | 84     | 1 91 | 102    | 1 71 | 118    | 1 56 | 130    | 1 42 | 140    | 1 31 |
|  | 0  | 38                            | 2 32 | 66     | 2 02 | 88     | 1 79 | 106    | 1 62 | 120    | 1 47 | 132    | 1 34 | 142    | 1 24 |
|  | 10   | 45                            | 2 14 | 71     | 1 86 | 92     | 1 67 | 109    | 1 51 | 123    | 1 38 | 134    | 1 26 | 144    | 1 17 |
|  | 20   | 53                            | 2 02 | 78     | 1 77 | 97     | 1 57 | 113    | 1 42 | 126    | 1 30 | 137    | 1 19 | 146    | 1 10 |
|  | 30   | 60                            | 1 83 | 83     | 1 62 | 102    | 1 47 | 117    | 1 33 | 129    | 1 25 | 139    | 1 11 | 148    | 1 03 |
| 300                                    | 40   | 68                            | 1 71 | 89     | 1 50 | 107    | 1 36 | 121    | 1 24 | 132    | 1 12 | 142    | 1 04 | 150    | 0 96 |
|  | 50   | 75                            | 1 53 | 95     | 1 37 | 111    | 1 24 | 125    | 1 14 | 136    | 1 05 | 145    | 0 97 | 153    | 0 90 |
|  | 60   | 83                            | 1 40 | 102    | 1 28 | 117    | 1 16 | 129    | 1 05 | 139    | 0 97 | 148    | 0 90 | 155    | 0 83 |
|  | 70   | 91                            | 1 28 | 108    | 1 16 | 122    | 1 06 | 134    | 0 98 | 144    | 0 90 | 150    | 0 81 | 158    | 0 77 |
|  | -40  | 17                            | 2 09 | 56     | 1 76 | 83     | 1 50 | 104    | 1 32 | 120    | 1 17 | 133    | 1 06 | 144    | 0 96 |

\* Final temperature of air leaving heater.

† Condensation in pounds per square foot of heating surface per hour.

# Sturtevant Heaters (All Types Except Return Bend)

**Steam Pressure**  
0 Pounds Gauge

**Final Temperatures and Condensations**

**Steam Temperature**  
212° F.

| Velocity through Heater<br>in Feet per minute<br>at 65 Degrees F. | Temperature of<br>Entering Air<br>Degrees F. | Number of 4-Row Sections Deep |      |        |      |        |      |        |      |        |      |        |      |        |      |
|---|--|-------------------------------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|
|   |  | 1                             |      | 2      |      | 3      |      | 4      |      | 5      |      | 6      |      | 7      |      |
|   |  | F. T.*                        | C.†  | F. T.* | C.†  | F. T.* | C.†  | F. T.* | C.†  | F. T.* | C.†  | F. T.* | C.†  | F. T.* | C.†  |
| 1200  | -40  | 4                             | 3.22 | 38     | 2.86 | 65     | 2.57 | 85     | 2.29 | 103    | 2.09 | 117    | 1.92 | 128    | 1.76 |
|   | -30  | 11                            | 3.00 | 44     | 2.71 | 69     | 2.42 | 89     | 2.18 | 106    | 1.99 | 119    | 1.89 | 130    | 1.68 |
|   | -20  | 19                            | 2.86 | 50     | 2.57 | 73     | 2.27 | 93     | 2.07 | 109    | 1.89 | 122    | 1.73 | 132    | 1.59 |
|   | -10  | 27                            | 2.71 | 56     | 2.42 | 78     | 2.15 | 97     | 1.96 | 112    | 1.79 | 124    | 1.64 | 135    | 1.52 |
|   | 0  | 35                            | 2.57 | 62     | 2.27 | 83     | 2.03 | 101    | 1.85 | 115    | 1.69 | 127    | 1.55 | 137    | 1.43 |
|   | 10   | 43                            | 2.42 | 68     | 2.13 | 88     | 1.90 | 105    | 1.74 | 118    | 1.58 | 130    | 1.47 | 139    | 1.35 |
|   | 20   | 51                            | 2.27 | 74     | 1.98 | 93     | 1.78 | 109    | 1.63 | 122    | 1.50 | 132    | 1.37 | 142    | 1.28 |
|   | 30   | 58                            | 2.05 | 80     | 1.83 | 98     | 1.66 | 113    | 1.52 | 125    | 1.39 | 135    | 1.28 | 144    | 1.19 |
|   | 40   | 66                            | 1.91 | 86     | 1.69 | 103    | 1.54 | 117    | 1.41 | 129    | 1.30 | 139    | 1.21 | 147    | 1.12 |
|   | 50   | 73                            | 1.68 | 93     | 1.58 | 109    | 1.44 | 122    | 1.32 | 132    | 1.20 | 142    | 1.12 | 149    | 1.03 |
|   | 60   | 81                            | 1.54 | 100    | 1.47 | 114    | 1.32 | 126    | 1.21 | 136    | 1.11 | 145    | 1.04 | 152    | 0.96 |
|   | 70   | 90                            | 1.47 | 106    | 1.32 | 120    | 1.22 | 131    | 1.12 | 140    | 1.02 | 148    | 0.95 | 156    | 0.89 |
| 1500  | -40  | 1                             | 3.58 | 31     | 3.25 | 56     | 2.93 | 77     | 2.68 | 93     | 2.44 | 108    | 2.26 | 120    | 2.09 |
|   | -30  | 7                             | 3.39 | 37     | 3.14 | 61     | 2.77 | 81     | 2.54 | 97     | 2.33 | 111    | 2.15 | 123    | 2.00 |
|   | -20  | 15                            | 3.21 | 43     | 2.88 | 66     | 2.62 | 85     | 2.40 | 100    | 2.20 | 114    | 2.05 | 125    | 1.90 |
|   | -10  | 23                            | 3.02 | 50     | 2.75 | 72     | 2.50 | 89     | 2.27 | 101    | 2.09 | 117    | 1.94 | 128    | 1.81 |
|   | 0  | 31                            | 2.84 | 56     | 2.56 | 77     | 2.35 | 93     | 2.13 | 108    | 1.98 | 120    | 1.83 | 131    | 1.71 |
|   | 10   | 40                            | 2.75 | 63     | 2.43 | 82     | 2.19 | 98     | 2.01 | 112    | 1.87 | 124    | 1.74 | 134    | 1.62 |
|   | 20   | 47                            | 2.47 | 69     | 2.24 | 87     | 2.04 | 103    | 1.90 | 116    | 1.76 | 127    | 1.63 | 136    | 1.52 |
|   | 30   | 55                            | 2.29 | 76     | 2.11 | 93     | 1.92 | 107    | 1.76 | 120    | 1.65 | 131    | 1.54 | 139    | 1.43 |
|   | 40   | 63                            | 2.11 | 82     | 1.92 | 98     | 1.77 | 112    | 1.65 | 124    | 1.54 | 134    | 1.43 | 142    | 1.33 |
|   | 50   | 71                            | 1.92 | 89     | 1.79 | 104    | 1.65 | 117    | 1.53 | 128    | 1.43 | 137    | 1.38 | 145    | 1.24 |
|   | 60   | 79                            | 1.74 | 96     | 1.65 | 110    | 1.52 | 122    | 1.42 | 132    | 1.32 | 141    | 1.23 | 148    | 1.15 |
|   | 70   | 88                            | 1.65 | 103    | 1.51 | 116    | 1.40 | 127    | 1.30 | 137    | 1.23 | 145    | 1.14 | 152    | 1.07 |
| 1800  | -40  | 4                             | 3.95 | 26     | 3.62 | 50     | 3.30 | 71     | 3.05 | 88     | 2.82 | 103    | 2.62 | 115    | 2.43 |
|   | -30  | 4                             | 3.71 | 33     | 3.46 | 56     | 3.15 | 75     | 2.89 | 92     | 2.68 | 106    | 2.49 | 118    | 2.32 |
|   | -20  | 13                            | 3.63 | 39     | 3.24 | 61     | 2.97 | 80     | 2.75 | 96     | 2.55 | 109    | 2.36 | 121    | 2.21 |
|   | -10  | 21                            | 3.41 | 46     | 3.08 | 67     | 2.82 | 85     | 2.61 | 100    | 2.42 | 113    | 2.25 | 124    | 2.11 |
|   | 0  | 29                            | 3.19 | 53     | 2.91 | 73     | 2.68 | 89     | 2.45 | 104    | 2.29 | 117    | 2.14 | 127    | 2.00 |
|   | 10   | 37                            | 2.97 | 59     | 2.69 | 78     | 2.49 | 94     | 2.31 | 108    | 2.15 | 120    | 2.02 | 130    | 1.88 |
|   | 20   | 45                            | 2.75 | 66     | 2.53 | 84     | 2.34 | 99     | 2.17 | 113    | 2.04 | 124    | 1.90 | 133    | 1.77 |
|   | 30   | 53                            | 2.53 | 73     | 2.36 | 90     | 2.20 | 105    | 2.06 | 117    | 1.91 | 127    | 1.78 | 136    | 1.66 |
|   | 40   | 62                            | 2.42 | 81     | 2.25 | 96     | 2.05 | 110    | 1.92 | 121    | 1.78 | 131    | 1.67 | 139    | 1.55 |
|   | 50   | 70                            | 2.20 | 87     | 2.03 | 102    | 1.91 | 115    | 1.79 | 126    | 1.67 | 134    | 1.54 | 142    | 1.44 |
|   | 60   | 79                            | 2.09 | 95     | 1.92 | 109    | 1.79 | 121    | 1.63 | 130    | 1.54 | 138    | 1.43 | 146    | 1.35 |
|   | 70   | 87                            | 1.87 | 102    | 1.76 | 115    | 1.65 | 126    | 1.54 | 131    | 1.41 | 142    | 1.32 | 149    | 1.24 |

\* Final temperature of air leaving heater.

† Condensation in pounds per square foot of heating surface per hour.

# Sturtevant Heaters (All Types Except Return Bend)

**Steam Pressure**  
5 Pounds Gauge

**Final Temperatures and Condensations**

**Steam Temperature**  
227° F.

| Velocity through Heater<br>in Feet per minute<br>at 65 Degrees F. |     | Temperature of<br>Entering Air<br>Degrees F. |      | Number of 4-Row Sections Deep |      |        |      |        |      |        |      |        |      |        |      |        |     |  |  |
|---|-----|--|------|-------------------------------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|-----|--|--|
|   |     |  |      | 1                             |      | 2      |      | 3      |      | 4      |      | 5      |      | 6      |      | 7      |     |  |  |
|   |     |  |      | F. T.*                        | C.†  | F. T.* | C.†  | F. T.* | C.†  | F. T.* | C.†  | F. T.* | C.†  | F. T.* | C.†  | F. T.* | C.† |  |  |
| 600   | -40 | 23   | 2.32 | 61                            | 1.92 | 94     | 1.65 | 116    | 1.44 | 133    | 1.28 | 146    | 1.14 | 157    | 1.04 |        |     |  |  |
|   | -30 | 29   | 2.18 | 68                            | 1.81 | 97     | 1.56 | 118    | 1.36 | 135    | 1.22 | 148    | 1.09 | 158    | 0.99 |        |     |  |  |
|   | -20 | 35   | 2.06 | 72                            | 1.70 | 100    | 1.48 | 120    | 1.29 | 137    | 1.16 | 149    | 1.04 | 159    | 0.94 |        |     |  |  |
|   | -10 | 42   | 1.92 | 77                            | 1.60 | 103    | 1.38 | 123    | 1.23 | 139    | 1.10 | 151    | 0.99 | 161    | 0.90 |        |     |  |  |
|   | 0   | 49   | 1.81 | 83                            | 1.53 | 107    | 1.31 | 126    | 1.16 | 141    | 1.04 | 153    | 0.94 | 163    | 0.86 |        |     |  |  |
|   | 10  | 56   | 1.70 | 87                            | 1.42 | 111    | 1.24 | 129    | 1.10 | 143    | 0.98 | 155    | 0.89 | 164    | 0.81 |        |     |  |  |
|   | 20  | 62   | 1.55 | 92                            | 1.33 | 115    | 1.17 | 132    | 1.03 | 145    | 0.92 | 157    | 0.84 | 166    | 0.77 |        |     |  |  |
|   | 30  | 69   | 1.44 | 97                            | 1.23 | 118    | 1.08 | 135    | 0.97 | 148    | 0.87 | 159    | 0.79 | 167    | 0.72 |        |     |  |  |
|   | 40  | 76   | 1.33 | 102                           | 1.14 | 122    | 1.01 | 138    | 0.90 | 150    | 0.81 | 161    | 0.74 | 169    | 0.68 |        |     |  |  |
|   | 50  | 83   | 1.22 | 108                           | 1.07 | 126    | 0.93 | 141    | 0.84 | 153    | 0.76 | 163    | 0.69 | 171    | 0.64 |        |     |  |  |
|   | 60  | 90   | 1.10 | 113                           | 0.98 | 131    | 0.87 | 144    | 0.78 | 156    | 0.71 | 165    | 0.64 | 173    | 0.60 |        |     |  |  |
|   | 70  | 97   | 1.00 | 119                           | 0.90 | 135    | 0.80 | 148    | 0.72 | 158    | 0.65 | 167    | 0.60 | 175    | 0.55 |        |     |  |  |
| 800   | -40 | 18   | 2.86 | 57                            | 2.39 | 87     | 2.09 | 109    | 1.84 | 126    | 1.64 | 140    | 1.48 | 151    | 1.35 |        |     |  |  |
|   | -30 | 24   | 2.66 | 62                            | 2.27 | 90     | 1.97 | 111    | 1.74 | 128    | 1.56 | 142    | 1.41 | 153    | 1.29 |        |     |  |  |
|   | -20 | 31   | 2.51 | 66                            | 2.12 | 94     | 1.88 | 114    | 1.65 | 130    | 1.48 | 143    | 1.34 | 154    | 1.22 |        |     |  |  |
|   | -10 | 38   | 2.37 | 72                            | 2.02 | 98     | 1.77 | 117    | 1.56 | 133    | 1.41 | 145    | 1.27 | 156    | 1.17 |        |     |  |  |
|   | 0   | 45   | 2.22 | 77                            | 1.90 | 102    | 1.68 | 120    | 1.48 | 135    | 1.33 | 147    | 1.21 | 157    | 1.10 |        |     |  |  |
|   | 10  | 52   | 2.07 | 83                            | 1.80 | 106    | 1.58 | 124    | 1.40 | 138    | 1.26 | 150    | 1.15 | 160    | 1.05 |        |     |  |  |
|   | 20  | 59   | 1.92 | 88                            | 1.67 | 109    | 1.46 | 126    | 1.31 | 140    | 1.18 | 152    | 1.08 | 161    | 0.99 |        |     |  |  |
|   | 30  | 66   | 1.77 | 93                            | 1.55 | 114    | 1.38 | 130    | 1.23 | 143    | 1.11 | 154    | 1.02 | 163    | 0.94 |        |     |  |  |
|   | 40  | 73   | 1.63 | 99                            | 1.45 | 118    | 1.28 | 133    | 1.15 | 146    | 1.04 | 156    | 0.95 | 165    | 0.88 |        |     |  |  |
|   | 50  | 81   | 1.53 | 105                           | 1.35 | 123    | 1.20 | 137    | 1.07 | 149    | 0.98 | 159    | 0.89 | 167    | 0.82 |        |     |  |  |
|   | 60  | 89   | 1.43 | 111                           | 1.26 | 127    | 1.10 | 141    | 1.00 | 152    | 0.91 | 161    | 0.83 | 169    | 0.77 |        |     |  |  |
|   | 70  | 96   | 1.28 | 116                           | 1.13 | 132    | 1.02 | 145    | 0.92 | 155    | 0.84 | 164    | 0.77 | 172    | 0.72 |        |     |  |  |
| 1000  | -40 | 13   | 3.27 | 51                            | 2.80 | 80     | 2.47 | 103    | 2.20 | 120    | 1.97 | 134    | 1.79 | 146    | 1.64 |        |     |  |  |
|   | -30 | 20   | 3.08 | 57                            | 2.68 | 85     | 2.36 | 106    | 2.10 | 123    | 1.89 | 137    | 1.71 | 148    | 1.57 |        |     |  |  |
|   | -20 | 27   | 2.90 | 62                            | 2.53 | 88     | 2.20 | 106    | 1.97 | 125    | 1.79 | 138    | 1.62 | 150    | 1.50 |        |     |  |  |
|   | -10 | 35   | 2.77 | 67                            | 2.37 | 93     | 2.12 | 112    | 1.88 | 128    | 1.70 | 141    | 1.55 | 152    | 1.43 |        |     |  |  |
|   | 0   | 42   | 2.59 | 73                            | 2.25 | 97     | 1.98 | 116    | 1.79 | 131    | 1.61 | 143    | 1.47 | 153    | 1.35 |        |     |  |  |
|   | 10  | 49   | 2.40 | 79                            | 2.12 | 101    | 1.87 | 119    | 1.68 | 133    | 1.52 | 145    | 1.38 | 155    | 1.28 |        |     |  |  |
|   | 20  | 56   | 2.22 | 84                            | 1.97 | 106    | 1.77 | 123    | 1.59 | 136    | 1.43 | 148    | 1.31 | 158    | 1.21 |        |     |  |  |
|   | 30  | 64   | 2.09 | 90                            | 1.85 | 110    | 1.64 | 126    | 1.48 | 139    | 1.34 | 150    | 1.23 | 160    | 1.14 |        |     |  |  |
|   | 40  | 72   | 1.97 | 96                            | 1.72 | 115    | 1.54 | 130    | 1.39 | 143    | 1.27 | 153    | 1.16 | 163    | 1.08 |        |     |  |  |
|   | 50  | 79   | 1.78 | 102                           | 1.60 | 119    | 1.42 | 134    | 1.29 | 146    | 1.18 | 156    | 1.09 | 165    | 1.01 |        |     |  |  |
|   | 60  | 87   | 1.66 | 108                           | 1.48 | 125    | 1.33 | 138    | 1.20 | 149    | 1.10 | 159    | 1.01 | 167    | 0.94 |        |     |  |  |
|   | 70  | 95   | 1.54 | 113                           | 1.32 | 129    | 1.21 | 142    | 1.11 | 153    | 1.02 | 162    | 0.94 | 170    | 0.88 |        |     |  |  |

\* Final temperature of air leaving heater.

† Condensation in pounds per square foot of heating surface per hour.

# Sturtevant Heaters

## (All Types Except Return Bend)

**Steam Pressure**  
5 Pounds Gauge

**Final Temperatures and Condensations**

**Steam Temperature**  
227° F.

| Velocity through Heater<br>in Feet per minute<br>at 65 Degrees F. |     | Temperature of<br>Entering Air<br>Degrees F. |      | Number of 4-Row Sections Deep |      |        |      |        |      |        |      |        |      |        |      |        |     |
|---|-----|--|------|-------------------------------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|-----|
|   |     |  |      | 1                             |      | 2      |      | 3      |      | 4      |      | 5      |      | 6      |      | 7      |     |
|   |     |  |      | F. T.*                        | C.†  | F. T.* | C.†  | F. T.* | C.†  | F. T.* | C.†  | F. T.* | C.†  | F. T.* | C.†  | F. T.* | C.† |
| 1200  | -40 | 9  | 3 62 | 45                            | 3 14 | 72     | 2 76 | 95     | 2 50 | 114    | 2 28 | 128    | 2 07 | 141    | 1 91 |        |     |
|   | -30 | 16   | 3 40 | 50                            | 2 95 | 77     | 2 64 | 99     | 2 38 | 116    | 2 16 | 131    | 1 98 | 143    | 1 83 |        |     |
|   | -20 | 24   | 3 25 | 56                            | 2 80 | 82     | 2 51 | 103    | 2 27 | 119    | 2 05 | 133    | 1 88 | 145    | 1 74 |        |     |
|   | -10 | 31   | 3 03 | 62                            | 2 66 | 86     | 2 36 | 106    | 2 14 | 122    | 1 95 | 136    | 1 80 | 147    | 1 66 |        |     |
|   | 0   | 38   | 2 81 | 68                            | 2 51 | 91     | 2 24 | 110    | 2 03 | 126    | 1 86 | 139    | 1 71 | 150    | 1 58 |        |     |
|   | 10  | 46   | 2 66 | 73                            | 2 33 | 96     | 2 12 | 112    | 1 92 | 129    | 1 76 | 141    | 1 61 | 152    | 1 50 |        |     |
|   | 20  | 54   | 2 41 | 79                            | 2 18 | 101    | 1 99 | 118    | 1 81 | 132    | 1 65 | 144    | 1 53 | 154    | 1 42 |        |     |
|   | 30  | 61   | 2 29 | 86                            | 2 07 | 106    | 1 87 | 122    | 1 70 | 136    | 1 57 | 147    | 1 44 | 156    | 1 33 |        |     |
|   | 40  | 69   | 2 14 | 92                            | 1 92 | 111    | 1 75 | 126    | 1 59 | 139    | 1 54 | 150    | 1 35 | 159    | 1 26 |        |     |
|   | 50  | 77   | 1 99 | 99                            | 1 81 | 116    | 1 62 | 131    | 1 50 | 143    | 1 45 | 153    | 1 27 | 162    | 1 18 |        |     |
|   | 60  | 85   | 1 85 | 105                           | 1 66 | 121    | 1 50 | 135    | 1 38 | 146    | 1 34 | 156    | 1 18 | 164    | 1 10 |        |     |
|   | 70  | 93   | 1 70 | 112                           | 1 55 | 127    | 1 40 | 140    | 1 29 | 150    | 1 24 | 159    | 1 09 | 167    | 1 02 |        |     |
| 1500  | -40 | 4  | 4 06 | 37                            | 3 56 | 64     | 3 20 | 86     | 2 91 | 104    | 2 66 | 119    | 2 45 | 132    | 2 27 |        |     |
|   | -30 | 12   | 3 88 | 43                            | 3 37 | 68     | 3 02 | 90     | 2 77 | 107    | 2 53 | 122    | 2 34 | 134    | 2 16 |        |     |
|   | -20 | 19   | 3 60 | 49                            | 3 19 | 74     | 2 90 | 94     | 2 63 | 110    | 2 40 | 125    | 2 23 | 137    | 2 07 |        |     |
|   | -10 | 27   | 3 42 | 55                            | 3 00 | 78     | 2 71 | 98     | 2 50 | 114    | 2 29 | 128    | 2 13 | 140    | 1 98 |        |     |
|   | 0   | 34   | 3 14 | 61                            | 2 82 | 83     | 2 55 | 102    | 2 36 | 117    | 2 16 | 131    | 2 02 | 142    | 1 87 |        |     |
|   | 10  | 42   | 2 96 | 68                            | 2 68 | 89     | 2 43 | 106    | 2 22 | 121    | 2 03 | 134    | 1 96 | 145    | 1 78 |        |     |
|   | 20  | 49   | 2 68 | 74                            | 2 49 | 94     | 2 28 | 111    | 2 10 | 125    | 1 94 | 137    | 1 80 | 148    | 1 69 |        |     |
|   | 30  | 57   | 2 49 | 81                            | 2 36 | 100    | 2 15 | 115    | 1 96 | 129    | 1 83 | 140    | 1 69 | 151    | 1 60 |        |     |
|   | 40  | 66   | 2 40 | 88                            | 2 22 | 105    | 2 00 | 120    | 1 85 | 133    | 1 72 | 144    | 1 60 | 154    | 1 50 |        |     |
|   | 50  | 75   | 2 31 | 95                            | 2 08 | 111    | 1 88 | 125    | 1 73 | 138    | 1 62 | 148    | 1 51 | 157    | 1 41 |        |     |
|   | 60  | 83   | 2 12 | 101                           | 1 89 | 117    | 1 75 | 130    | 1 62 | 141    | 1 50 | 152    | 1 42 | 160    | 1 32 |        |     |
|   | 70  | 91   | 1 94 | 108                           | 1 75 | 122    | 1 60 | 135    | 1 50 | 146    | 1 40 | 155    | 1 31 | 163    | 1 23 |        |     |
| 1800  | -40 | 0  | 4 43 | 32                            | 3 99 | 59     | 3 66 | 80     | 3 33 | 99     | 3 08 | 114    | 2 85 | 127    | 2 64 |        |     |
|   | -30 | 8  | 4 21 | 39                            | 3 83 | 64     | 3 47 | 85     | 3 19 | 103    | 2 95 | 117    | 2 72 | 130    | 2 53 |        |     |
|   | -20 | 17   | 4 10 | 45                            | 3 60 | 70     | 3 33 | 90     | 3 05 | 106    | 2 79 | 120    | 2 59 | 132    | 2 41 |        |     |
|   | -10 | 25   | 3 88 | 52                            | 3 44 | 75     | 3 14 | 94     | 2 88 | 110    | 2 66 | 123    | 2 46 | 135    | 2 29 |        |     |
|   | 0   | 32   | 3 55 | 59                            | 3 27 | 80     | 2 96 | 99     | 2 74 | 114    | 2 53 | 127    | 2 35 | 138    | 2 18 |        |     |
|   | 10  | 40   | 3 33 | 65                            | 3 05 | 86     | 2 81 | 103    | 2 58 | 118    | 2 39 | 130    | 2 22 | 141    | 2 07 |        |     |
|   | 20  | 48   | 3 10 | 72                            | 2 88 | 91     | 2 62 | 108    | 2 44 | 121    | 2 24 | 133    | 2 09 | 144    | 1 96 |        |     |
|   | 30  | 56   | 2 88 | 79                            | 2 72 | 97     | 2 48 | 112    | 2 27 | 126    | 2 13 | 137    | 1 98 | 147    | 1 85 |        |     |
|   | 40  | 64   | 2 66 | 86                            | 2 55 | 102    | 2 29 | 117    | 2 13 | 130    | 2 00 | 141    | 1 87 | 150    | 1 74 |        |     |
|   | 50  | 73   | 2 55 | 93                            | 2 38 | 108    | 2 14 | 122    | 2 00 | 134    | 1 86 | 144    | 1 74 | 153    | 1 63 |        |     |
|   | 60  | 82   | 2 44 | 100                           | 2 32 | 114    | 2 00 | 127    | 1 86 | 138    | 1 73 | 148    | 1 63 | 157    | 1 54 |        |     |
|   | 70  | 90   | 2 22 | 106                           | 2 00 | 120    | 1 85 | 132    | 1 72 | 143    | 1 62 | 152    | 1 52 | 160    | 1 42 |        |     |

\* Final temperature of air leaving heater.

† Condensation in pounds per square foot of heating surface per hour.

# Sturtevant Heaters

## (All Types Except Return Bend)

**Steam Pressure**  
10 Pounds Gauge

**Final Temperatures and Condensations**

**Steam Temperature**  
240° F.

| Velocity through Heater<br>in Feet per minute<br>at 68 Degrees F. | Temperature of<br>Entering Air<br>Degrees F. | Number of 4-Row Sections Deep |      |        |      |        |      |        |      |        |      |        |      |        |      |
|---|--|-------------------------------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|
|   |  | 1                             |      | 2      |      | 3      |      | 4      |      | 5      |      | 6      |      | 7      |      |
|   |  | F. T.*                        | C.†  | F. T.* | C.†  | F. T.* | C.†  | F. T.* | C.†  | F. T.* | C.†  | F. T.* | C.†  | F. T.* | C.†  |
| 600   | -40  | 29                            | 2.59 | 73     | 2.12 | 103    | 1.79 | 126    | 1.56 | 143    | 1.37 | 156    | 1.23 | 168    | 1.11 |
|   | -30  | 35                            | 2.44 | 77     | 2.00 | 106    | 1.70 | 128    | 1.48 | 145    | 1.31 | 158    | 1.18 | 170    | 1.07 |
|   | -20  | 42                            | 2.32 | 81     | 1.89 | 110    | 1.62 | 130    | 1.41 | 147    | 1.25 | 160    | 1.13 | 171    | 1.01 |
|   | -10  | 48                            | 2.17 | 85     | 1.78 | 113    | 1.54 | 133    | 1.34 | 149    | 1.19 | 162    | 1.08 | 172    | 0.98 |
|   | 0  | 54                            | 2.02 | 90     | 1.68 | 116    | 1.45 | 136    | 1.27 | 151    | 1.13 | 163    | 1.02 | 174    | 0.93 |
|   | 10   | 60                            | 1.87 | 94     | 1.57 | 120    | 1.37 | 138    | 1.20 | 153    | 1.07 | 165    | 0.97 | 176    | 0.89 |
|   | 20   | 67                            | 1.76 | 99     | 1.48 | 123    | 1.29 | 141    | 1.13 | 155    | 1.01 | 167    | 0.92 | 177    | 0.84 |
|   | 30   | 73                            | 1.61 | 104    | 1.38 | 126    | 1.20 | 144    | 1.07 | 157    | 0.95 | 169    | 0.87 | 179    | 0.80 |
|   | 40   | 80                            | 1.50 | 108    | 1.27 | 130    | 1.13 | 146    | 1.00 | 159    | 0.89 | 170    | 0.81 | 180    | 0.75 |
|   | 50   | 87                            | 1.39 | 114    | 1.20 | 134    | 1.05 | 149    | 0.93 | 162    | 0.84 | 172    | 0.76 | 182    | 0.71 |
|   | 60   | 94                            | 1.27 | 119    | 1.10 | 138    | 0.98 | 153    | 0.87 | 164    | 0.78 | 175    | 0.72 | 184    | 0.66 |
|   | 70   | 101                           | 1.16 | 124    | 1.01 | 142    | 0.90 | 156    | 0.81 | 168    | 0.73 | 178    | 0.68 | 185    | 0.62 |
| 800   | -40  | 23                            | 3.15 | 64     | 2.60 | 94     | 2.23 | 118    | 1.97 | 136    | 1.76 | 151    | 1.59 | 163    | 1.45 |
|   | -30  | 29                            | 2.95 | 69     | 2.47 | 98     | 2.13 | 120    | 1.88 | 139    | 1.69 | 153    | 1.52 | 164    | 1.38 |
|   | -20  | 35                            | 2.75 | 74     | 2.35 | 101    | 2.02 | 123    | 1.79 | 141    | 1.61 | 155    | 1.46 | 166    | 1.33 |
|   | -10  | 42                            | 2.60 | 78     | 2.20 | 105    | 1.92 | 126    | 1.70 | 143    | 1.53 | 157    | 1.39 | 167    | 1.26 |
|   | 0  | 49                            | 2.45 | 84     | 2.10 | 109    | 1.82 | 130    | 1.62 | 146    | 1.46 | 159    | 1.32 | 169    | 1.21 |
|   | 10   | 56                            | 2.30 | 88     | 1.95 | 113    | 1.72 | 132    | 1.52 | 148    | 1.38 | 161    | 1.26 | 171    | 1.15 |
|   | 20   | 63                            | 2.15 | 93     | 1.83 | 117    | 1.62 | 136    | 1.45 | 150    | 1.30 | 163    | 1.19 | 173    | 1.09 |
|   | 30   | 70                            | 2.00 | 98     | 1.70 | 121    | 1.52 | 139    | 1.36 | 153    | 1.23 | 164    | 1.12 | 174    | 1.03 |
|   | 40   | 77                            | 1.85 | 104    | 1.60 | 125    | 1.42 | 142    | 1.27 | 156    | 1.16 | 167    | 1.06 | 176    | 0.97 |
|   | 50   | 84                            | 1.70 | 110    | 1.50 | 130    | 1.33 | 146    | 1.20 | 159    | 1.09 | 170    | 1.00 | 178    | 0.91 |
|   | 60   | 91                            | 1.55 | 115    | 1.37 | 134    | 1.23 | 150    | 1.12 | 162    | 1.02 | 172    | 0.93 | 180    | 0.86 |
|   | 70   | 99                            | 1.45 | 121    | 1.27 | 139    | 1.15 | 153    | 1.04 | 164    | 0.94 | 174    | 0.87 | 182    | 0.80 |
| 1000  | -40  | 18                            | 3.62 | 58     | 3.06 | 88     | 2.66 | 112    | 2.37 | 130    | 2.12 | 145    | 1.93 | 158    | 1.77 |
|   | -30  | 26                            | 3.50 | 64     | 2.94 | 93     | 2.56 | 115    | 2.26 | 133    | 2.07 | 148    | 1.85 | 160    | 1.70 |
|   | -20  | 31                            | 3.19 | 69     | 2.78 | 96     | 2.42 | 118    | 2.16 | 136    | 1.95 | 150    | 1.77 | 162    | 1.62 |
|   | -10  | 38                            | 3.00 | 73     | 2.59 | 100    | 2.29 | 121    | 2.05 | 138    | 1.85 | 152    | 1.69 | 163    | 1.54 |
|   | 0  | 46                            | 2.87 | 79     | 2.47 | 105    | 2.19 | 125    | 1.95 | 141    | 1.76 | 154    | 1.60 | 165    | 1.47 |
|   | 10   | 52                            | 2.62 | 84     | 2.31 | 108    | 2.04 | 128    | 1.84 | 143    | 1.66 | 156    | 1.52 | 167    | 1.40 |
|   | 20   | 60                            | 2.50 | 90     | 2.19 | 113    | 1.94 | 131    | 1.73 | 146    | 1.57 | 159    | 1.45 | 169    | 1.33 |
|   | 30   | 69                            | 2.44 | 95     | 2.03 | 118    | 1.83 | 135    | 1.64 | 149    | 1.49 | 161    | 1.36 | 171    | 1.25 |
|   | 40   | 75                            | 2.19 | 101    | 1.90 | 122    | 1.71 | 139    | 1.55 | 152    | 1.40 | 164    | 1.29 | 173    | 1.19 |
|   | 50   | 82                            | 2.00 | 107    | 1.78 | 127    | 1.60 | 142    | 1.44 | 156    | 1.32 | 166    | 1.21 | 175    | 1.11 |
|   | 60   | 90                            | 1.87 | 113    | 1.66 | 132    | 1.50 | 146    | 1.34 | 159    | 1.24 | 169    | 1.14 | 178    | 1.05 |
|   | 70   | 97                            | 1.69 | 119    | 1.53 | 136    | 1.37 | 150    | 1.25 | 162    | 1.15 | 172    | 1.06 | 180    | 0.98 |

\* Final temperature of air leaving heater.

† Condensation in pounds per square foot of heating surface per hour

# Sturtevant Heaters

## (All Types Except Return Bend)

Steam Pressure  
10 Pounds Gauge

Final Temperatures and Condensations

Steam Temperature  
240° F.

| Velocity through Heater<br>in Feet per Minute<br>at 65 Degrees F. |     | Temperature of<br>Entering Air<br>Degrees F. |      | Number of 4-Row Sections Deep |      |        |      |        |      |        |      |        |      |        |      |        |     |
|---|-----|--|------|-------------------------------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|-----|
|   |     |  |      | 1                             |      | 2      |      | 3      |      | 4      |      | 5      |      | 6      |      | 7      |     |
|   |     |  |      | F. T.*                        | C.†  | F. T.* | C.†  | F. T.* | C.†  | F. T.* | C.†  | F. T.* | C.†  | F. T.* | C.†  | F. T.* | C.† |
| 1200  | —40 | 13   | 3.98 | 51                            | 3.11 | 80     | 3.00 | 103    | 2.68 | 122    | 2.43 | 138    | 2.22 | 151    | 2.05 |        |     |
|   | —30 | 20   | 3.75 | 57                            | 3.26 | 84     | 2.85 | 107    | 2.57 | 125    | 2.32 | 140    | 2.13 | 153    | 1.96 |        |     |
|   | —20 | 27   | 3.52 | 62                            | 3.07 | 88     | 2.70 | 110    | 2.44 | 128    | 2.22 | 143    | 2.04 | 155    | 1.87 |        |     |
|   | —10 | 34   | 3.30 | 67                            | 2.89 | 93     | 2.57 | 114    | 2.32 | 131    | 2.11 | 145    | 1.94 | 158    | 1.80 |        |     |
|   | 0   | 42   | 3.15 | 73                            | 2.74 | 98     | 2.45 | 118    | 2.21 | 134    | 2.01 | 148    | 1.85 | 160    | 1.71 |        |     |
|   | 10  | 49   | 2.92 | 78                            | 2.55 | 102    | 2.30 | 121    | 2.08 | 137    | 1.90 | 151    | 1.76 | 162    | 1.63 |        |     |
|   | 20  | 56   | 2.70 | 84                            | 2.40 | 107    | 2.17 | 125    | 1.97 | 140    | 1.80 | 153    | 1.66 | 164    | 1.54 |        |     |
|   | 30  | 64   | 2.55 | 90                            | 2.25 | 112    | 2.05 | 129    | 1.85 | 144    | 1.71 | 156    | 1.57 | 166    | 1.46 |        |     |
|   | 40  | 72   | 2.40 | 97                            | 2.11 | 117    | 1.93 | 131    | 1.76 | 148    | 1.62 | 159    | 1.49 | 169    | 1.38 |        |     |
|   | 50  | 79   | 2.17 | 103                           | 1.99 | 122    | 1.80 | 138    | 1.65 | 151    | 1.51 | 162    | 1.40 | 171    | 1.30 |        |     |
|   | 60  | 87   | 2.03 | 109                           | 1.84 | 127    | 1.68 | 142    | 1.54 | 155    | 1.42 | 165    | 1.31 | 174    | 1.22 |        |     |
|   | 70  | 95   | 1.87 | 116                           | 1.72 | 133    | 1.57 | 147    | 1.44 | 159    | 1.33 | 169    | 1.24 | 176    | 1.14 |        |     |
| 1500  | —40 | 6  | 4.31 | 42                            | 3.84 | 71     | 3.17 | 94     | 3.14 | 113    | 2.87 | 129    | 2.64 | 143    | 2.45 |        |     |
|   | —30 | 14   | 4.12 | 48                            | 3.66 | 76     | 3.32 | 99     | 3.02 | 117    | 2.76 | 132    | 2.53 | 146    | 2.36 |        |     |
|   | —20 | 21   | 3.84 | 54                            | 3.47 | 81     | 3.16 | 103    | 2.88 | 120    | 2.63 | 135    | 2.42 | 148    | 2.25 |        |     |
|   | —10 | 29   | 3.66 | 60                            | 3.28 | 86     | 3.00 | 107    | 2.74 | 124    | 2.51 | 138    | 2.31 | 151    | 2.16 |        |     |
|   | 0   | 37   | 3.47 | 67                            | 3.14 | 91     | 2.84 | 111    | 2.60 | 127    | 2.38 | 141    | 2.20 | 153    | 2.05 |        |     |
|   | 10  | 45   | 3.28 | 74                            | 3.00 | 96     | 2.68 | 115    | 2.46 | 130    | 2.25 | 144    | 2.09 | 156    | 1.96 |        |     |
|   | 20  | 53   | 3.09 | 80                            | 2.81 | 102    | 2.56 | 120    | 2.34 | 134    | 2.14 | 147    | 1.98 | 158    | 1.85 |        |     |
|   | 30  | 61   | 2.91 | 87                            | 2.67 | 108    | 2.43 | 124    | 2.20 | 138    | 2.03 | 151    | 1.89 | 161    | 1.76 |        |     |
|   | 40  | 70   | 2.81 | 93                            | 2.48 | 112    | 2.25 | 128    | 2.06 | 142    | 1.91 | 154    | 1.78 | 164    | 1.66 |        |     |
|   | 50  | 77   | 2.53 | 100                           | 2.34 | 118    | 2.12 | 133    | 1.95 | 146    | 1.80 | 157    | 1.67 | 166    | 1.55 |        |     |
|   | 60  | 86   | 2.44 | 107                           | 2.20 | 123    | 1.97 | 138    | 1.83 | 150    | 1.69 | 160    | 1.56 | 169    | 1.46 |        |     |
|   | 70  | 94   | 2.25 | 113                           | 2.01 | 129    | 1.84 | 143    | 1.71 | 154    | 1.58 | 164    | 1.47 | 172    | 1.37 |        |     |
| 1800  | —40 | 2  | 4.72 | 37                            | 4.33 | 65     | 3.94 | 88     | 3.60 | 108    | 3.33 | 123    | 3.06 | 137    | 2.85 |        |     |
|   | —30 | 11   | 4.61 | 44                            | 4.17 | 71     | 3.79 | 93     | 3.46 | 111    | 3.18 | 126    | 2.93 | 139    | 2.72 |        |     |
|   | —20 | 19   | 4.39 | 50                            | 3.94 | 76     | 3.60 | 97     | 3.29 | 115    | 3.04 | 130    | 2.81 | 142    | 2.60 |        |     |
|   | —10 | 26   | 4.05 | 57                            | 3.77 | 81     | 3.41 | 102    | 3.15 | 119    | 2.90 | 132    | 2.66 | 145    | 2.49 |        |     |
|   | 0   | 35   | 3.94 | 63                            | 3.54 | 87     | 3.26 | 106    | 2.98 | 122    | 2.75 | 136    | 2.55 | 148    | 2.38 |        |     |
|   | 10  | 43   | 3.71 | 70                            | 3.38 | 92     | 3.07 | 111    | 2.84 | 126    | 2.61 | 139    | 2.42 | 150    | 2.25 |        |     |
|   | 20  | 51   | 3.49 | 77                            | 3.21 | 98     | 2.92 | 116    | 2.70 | 130    | 2.48 | 142    | 2.29 | 153    | 2.14 |        |     |
|   | 30  | 59   | 3.26 | 84                            | 3.04 | 104    | 2.77 | 120    | 2.53 | 134    | 2.34 | 146    | 2.17 | 156    | 2.03 |        |     |
|   | 40  | 68   | 3.15 | 90                            | 2.81 | 109    | 2.59 | 124    | 2.36 | 138    | 2.20 | 149    | 2.04 | 159    | 1.91 |        |     |
|   | 50  | 76   | 2.93 | 97                            | 2.64 | 115    | 2.44 | 130    | 2.25 | 142    | 2.07 | 153    | 1.93 | 162    | 1.80 |        |     |
|   | 60  | 84   | 2.70 | 104                           | 2.48 | 120    | 2.25 | 134    | 2.08 | 146    | 1.94 | 156    | 1.80 | 166    | 1.70 |        |     |
|   | 70  | 92   | 2.47 | 111                           | 2.31 | 126    | 2.10 | 139    | 1.94 | 150    | 1.80 | 160    | 1.69 | 169    | 1.59 |        |     |

\* Final temperature of air leaving heater.

† Condensation in pounds per square foot of heating surface per hour.

# Sturtevant Heaters (All Types Except Return Bend)

**Steam Pressure**  
**20 Pounds Gauge**

**Final Temperatures and Condensations**

**Steam Temperature**  
**259° F.**

| Velocity through Heater<br>in Feet per minute<br>at 65 Degrees F. | Temperature of<br>Entering Air<br>Degrees F. | Number of 4-Row Sections Deep |      |        |      |        |      |        |      |        |      |        |      |        |      |
|---|--|-------------------------------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|
|   |  | 1                             |      | 2      |      | 3      |      | 4      |      | 5      |      | 6      |      | 7      |      |
|   |  | F. T.*                        | C.†  | F. T.* | C.†  | F. T.* | C.†  | F. T.* | C.†  | F. T.* | C.†  | F. T.* | C.†  | F. T.* | C.†  |
| 600   | —40  | 36                            | 2.89 | 84     | 2.36 | 117    | 1.99 | 140    | 1.71 | 159    | 1.51 | 174    | 1.36 | 185    | 1.22 |
|   | —30  | 42                            | 2.74 | 88     | 2.24 | 119    | 1.89 | 142    | 1.63 | 161    | 1.45 | 175    | 1.30 | 186    | 1.17 |
|   | —20  | 48                            | 2.59 | 92     | 2.13 | 122    | 1.80 | 144    | 1.56 | 162    | 1.38 | 176    | 1.24 | 187    | 1.12 |
|   | —10  | 53                            | 2.40 | 96     | 2.02 | 125    | 1.71 | 147    | 1.49 | 164    | 1.32 | 178    | 1.19 | 189    | 1.08 |
|   | 0  | 59                            | 2.25 | 101    | 1.92 | 128    | 1.62 | 149    | 1.42 | 166    | 1.26 | 179    | 1.13 | 190    | 1.03 |
|   | 10   | 66                            | 2.13 | 104    | 1.79 | 131    | 1.53 | 152    | 1.35 | 168    | 1.20 | 181    | 1.07 | 191    | 0.98 |
|   | 20   | 72                            | 1.98 | 109    | 1.69 | 134    | 1.44 | 154    | 1.27 | 170    | 1.14 | 182    | 1.03 | 192    | 0.94 |
|   | 30   | 80                            | 1.90 | 114    | 1.60 | 138    | 1.37 | 157    | 1.21 | 172    | 1.08 | 181    | 0.98 | 194    | 0.89 |
|   | 40   | 87                            | 1.79 | 119    | 1.50 | 142    | 1.29 | 160    | 1.14 | 175    | 1.03 | 186    | 0.93 | 196    | 0.85 |
|   | 50   | 94                            | 1.68 | 123    | 1.39 | 145    | 1.20 | 163    | 1.08 | 177    | 0.97 | 188    | 0.87 | 197    | 0.80 |
|   | 60   | 101                           | 1.56 | 128    | 1.29 | 149    | 1.13 | 166    | 1.01 | 179    | 0.90 | 190    | 0.82 | 199    | 0.76 |
|   | 70   | 107                           | 1.41 | 133    | 1.20 | 153    | 1.05 | 169    | 0.94 | 182    | 0.85 | 192    | 0.77 | 200    | 0.71 |
| 800   | —40  | 29                            | 3.50 | 75     | 2.92 | 108    | 2.50 | 133    | 2.19 | 152    | 1.94 | 167    | 1.75 | 179    | 1.59 |
|   | —30  | 36                            | 3.34 | 80     | 2.79 | 111    | 2.38 | 135    | 2.09 | 154    | 1.86 | 168    | 1.67 | 180    | 1.52 |
|   | —20  | 42                            | 3.14 | 85     | 2.66 | 115    | 2.28 | 138    | 2.00 | 156    | 1.78 | 170    | 1.60 | 182    | 1.46 |
|   | —10  | 49                            | 2.99 | 89     | 2.51 | 118    | 2.16 | 140    | 1.90 | 158    | 1.70 | 172    | 1.54 | 183    | 1.40 |
|   | 0  | 56                            | 2.84 | 94     | 2.38 | 121    | 2.04 | 143    | 1.81 | 160    | 1.62 | 174    | 1.47 | 185    | 1.34 |
|   | 10   | 63                            | 2.69 | 99     | 2.25 | 125    | 1.94 | 146    | 1.72 | 162    | 1.54 | 176    | 1.40 | 186    | 1.27 |
|   | 20   | 70                            | 2.53 | 104    | 2.13 | 129    | 1.84 | 149    | 1.63 | 164    | 1.46 | 178    | 1.33 | 188    | 1.22 |
|   | 30   | 76                            | 2.33 | 109    | 2.00 | 133    | 1.74 | 152    | 1.54 | 167    | 1.39 | 180    | 1.27 | 190    | 1.16 |
|   | 40   | 83                            | 2.18 | 113    | 1.85 | 136    | 1.62 | 155    | 1.45 | 169    | 1.31 | 182    | 1.20 | 191    | 1.09 |
|   | 50   | 90                            | 2.03 | 119    | 1.75 | 140    | 1.52 | 158    | 1.37 | 172    | 1.24 | 184    | 1.13 | 193    | 1.04 |
|   | 60   | 97                            | 1.87 | 124    | 1.62 | 145    | 1.44 | 161    | 1.28 | 175    | 1.17 | 186    | 1.06 | 195    | 0.98 |
|   | 70   | 101                           | 1.72 | 129    | 1.49 | 149    | 1.33 | 164    | 1.19 | 178    | 1.09 | 188    | 0.99 | 196    | 0.91 |
| 1000  | —40  | 23                            | 3.99 | 67     | 3.39 | 100    | 2.96 | 125    | 2.61 | 145    | 2.35 | 160    | 2.11 | 173    | 1.93 |
|   | —30  | 30                            | 3.80 | 71     | 3.20 | 104    | 2.83 | 128    | 2.50 | 147    | 2.24 | 162    | 2.03 | 175    | 1.86 |
|   | —20  | 37                            | 3.61 | 77     | 3.07 | 108    | 2.71 | 131    | 2.39 | 149    | 2.14 | 164    | 1.94 | 177    | 1.80 |
|   | —10  | 44                            | 3.42 | 82     | 2.92 | 111    | 2.56 | 134    | 2.28 | 152    | 2.05 | 166    | 1.86 | 178    | 1.70 |
|   | 0  | 51                            | 3.23 | 87     | 2.76 | 116    | 2.45 | 137    | 2.17 | 154    | 1.95 | 168    | 1.77 | 180    | 1.63 |
|   | 10   | 58                            | 3.04 | 92     | 2.60 | 119    | 2.30 | 140    | 2.06 | 157    | 1.86 | 170    | 1.69 | 182    | 1.56 |
|   | 20   | 65                            | 2.85 | 98     | 2.47 | 124    | 2.20 | 141    | 1.96 | 160    | 1.77 | 172    | 1.61 | 184    | 1.49 |
|   | 30   | 72                            | 2.66 | 104    | 2.35 | 128    | 2.07 | 147    | 1.85 | 162    | 1.67 | 175    | 1.53 | 186    | 1.41 |
|   | 40   | 79                            | 2.47 | 109    | 2.19 | 132    | 1.94 | 150    | 1.74 | 165    | 1.58 | 177    | 1.45 | 188    | 1.34 |
|   | 50   | 86                            | 2.28 | 115    | 2.06 | 136    | 1.82 | 154    | 1.65 | 168    | 1.50 | 180    | 1.37 | 190    | 1.27 |
|   | 60   | 94                            | 2.16 | 121    | 1.93 | 141    | 1.71 | 158    | 1.55 | 171    | 1.41 | 183    | 1.30 | 192    | 1.20 |
|   | 70   | 102                           | 2.03 | 127    | 1.81 | 146    | 1.61 | 161    | 1.44 | 174    | 1.32 | 186    | 1.23 | 194    | 1.12 |

\* Final temperature of air leaving heater.

† Condensation in pounds per square foot of heating surface per hour

# Sturtevant Heaters (All Types Except Return Bend)

**Steam Pressure**  
20 Pounds Gauge

**Final Temperatures and Condensations**

**Steam Temperature**  
259° F.

| Velocity through Heater<br>in Feet per minute<br>at 65 Degrees F. | Temperature of<br>Entering Air,<br>Degrees F. | Number of 4-Row Sections Deep |      |        |      |        |      |        |      |        |      |        |      |        |      |
|---|---|-------------------------------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|
|   |   | 1                             |      | 2      |      | 3      |      | 4      |      | 5      |      | 6      |      | 7      |      |
|   |   | F. T.*                        | C.†  | F. T.* | C.†  | F. T.* | C.†  | F. T.* | C.†  | F. T.* | C.†  | F. T.* | C.†  | F. T.* | C.†  |
| 1200  | —40   | 17                            | 4.33 | 60     | 3.80 | 92     | 3.34 | 116    | 2.96 | 137    | 2.60 | 153    | 2.44 | 166    | 2.24 |
|   | —30   | 25                            | 4.18 | 66     | 3.65 | 96     | 3.19 | 120    | 2.85 | 139    | 2.57 | 155    | 2.34 | 168    | 2.15 |
|   | —20   | 32                            | 3.95 | 71     | 3.46 | 100    | 3.04 | 123    | 2.72 | 142    | 2.46 | 157    | 2.24 | 170    | 2.06 |
|   | —10   | 40                            | 3.80 | 77     | 3.31 | 105    | 2.91 | 127    | 2.60 | 145    | 2.36 | 160    | 2.15 | 172    | 1.98 |
|   | 0   | 47                            | 3.57 | 83     | 3.15 | 109    | 2.76 | 130    | 2.47 | 148    | 2.25 | 162    | 2.05 | 174    | 1.89 |
|   | 10  | 54                            | 3.34 | 88     | 2.96 | 113    | 2.61 | 134    | 2.36 | 150    | 2.13 | 164    | 1.95 | 176    | 1.80 |
|   | 20  | 62                            | 3.19 | 93     | 2.77 | 118    | 2.48 | 138    | 2.24 | 153    | 2.02 | 166    | 1.85 | 178    | 1.72 |
|   | 30  | 70                            | 3.04 | 99     | 2.62 | 122    | 2.33 | 141    | 2.11 | 156    | 1.91 | 169    | 1.76 | 180    | 1.63 |
|   | 40  | 77                            | 2.81 | 105    | 2.47 | 127    | 2.20 | 145    | 2.00 | 160    | 1.82 | 172    | 1.67 | 182    | 1.54 |
|   | 50  | 84                            | 2.58 | 110    | 2.28 | 132    | 2.08 | 149    | 1.88 | 163    | 1.72 | 174    | 1.57 | 184    | 1.45 |
|   | 60  | 92                            | 2.43 | 116    | 2.13 | 137    | 1.95 | 153    | 1.77 | 166    | 1.61 | 177    | 1.48 | 187    | 1.38 |
|   | 70  | 99                            | 2.20 | 122    | 1.98 | 141    | 1.80 | 156    | 1.63 | 169    | 1.50 | 180    | 1.39 | 189    | 1.29 |
| 1500  | —40   | 11                            | 4.84 | 49     | 4.23 | 80     | 3.80 | 105    | 3.44 | 125    | 3.13 | 142    | 2.88 | 157    | 2.67 |
|   | —30   | 18                            | 4.56 | 55     | 4.03 | 85     | 3.64 | 109    | 3.30 | 128    | 3.00 | 145    | 2.77 | 159    | 2.56 |
|   | —20   | 26                            | 4.37 | 62     | 3.89 | 90     | 3.48 | 113    | 3.16 | 132    | 2.89 | 148    | 2.66 | 161    | 2.46 |
|   | —10   | 33                            | 4.08 | 68     | 3.70 | 94     | 3.29 | 117    | 3.01 | 135    | 2.75 | 151    | 2.55 | 164    | 2.36 |
|   | 0   | 41                            | 3.89 | 74     | 3.51 | 100    | 3.16 | 121    | 2.87 | 139    | 2.64 | 154    | 2.44 | 166    | 2.25 |
|   | 10  | 49                            | 3.70 | 80     | 3.32 | 105    | 3.00 | 125    | 2.73 | 142    | 2.51 | 156    | 2.31 | 169    | 2.16 |
|   | 20  | 57                            | 3.51 | 86     | 3.13 | 110    | 2.85 | 129    | 2.59 | 146    | 2.39 | 160    | 2.22 | 172    | 2.06 |
|   | 30  | 65                            | 3.32 | 92     | 2.94 | 115    | 2.69 | 134    | 2.47 | 149    | 2.26 | 163    | 2.10 | 174    | 1.95 |
|   | 40  | 73                            | 3.13 | 99     | 2.80 | 120    | 2.53 | 138    | 2.33 | 153    | 2.15 | 166    | 1.99 | 177    | 1.86 |
|   | 50  | 81                            | 2.94 | 105    | 2.61 | 126    | 2.40 | 142    | 2.18 | 157    | 2.03 | 169    | 1.88 | 180    | 1.76 |
|   | 60  | 88                            | 2.66 | 111    | 2.42 | 131    | 2.25 | 147    | 2.07 | 160    | 1.90 | 172    | 1.77 | 182    | 1.66 |
|   | 70  | 96                            | 2.47 | 118    | 2.28 | 136    | 2.09 | 152    | 1.95 | 165    | 1.80 | 176    | 1.68 | 184    | 1.55 |
| 1800  | —40   | 7                             | 5.36 | 44     | 4.78 | 74     | 4.33 | 98     | 3.93 | 118    | 3.60 | 136    | 3.34 | 151    | 3.11 |
|   | —30   | 15                            | 5.13 | 50     | 4.57 | 79     | 4.14 | 102    | 3.76 | 122    | 3.47 | 139    | 3.21 | 154    | 3.00 |
|   | —20   | 23                            | 4.90 | 57     | 4.39 | 84     | 3.95 | 106    | 3.59 | 126    | 3.33 | 142    | 3.08 | 156    | 2.87 |
|   | —10   | 31                            | 4.67 | 64     | 4.22 | 89     | 3.76 | 111    | 3.45 | 130    | 3.19 | 146    | 2.96 | 159    | 2.75 |
|   | —0  | 38                            | 4.33 | 69     | 3.93 | 94     | 3.57 | 115    | 3.28 | 133    | 3.03 | 149    | 2.83 | 162    | 2.64 |
|   | 10  | 46                            | 4.11 | 76     | 3.76 | 100    | 3.42 | 120    | 3.14 | 137    | 2.90 | 152    | 2.70 | 164    | 2.51 |
|   | 20  | 54                            | 3.87 | 82     | 3.54 | 105    | 3.23 | 124    | 2.96 | 141    | 2.76 | 155    | 2.56 | 167    | 2.39 |
|   | 30  | 63                            | 3.76 | 89     | 3.36 | 111    | 3.08 | 129    | 2.82 | 145    | 2.62 | 159    | 2.45 | 170    | 2.28 |
|   | 40  | 71                            | 3.53 | 95     | 3.14 | 116    | 2.80 | 134    | 2.68 | 149    | 2.49 | 162    | 2.32 | 173    | 2.17 |
|   | 50  | 79                            | 3.31 | 102    | 2.96 | 122    | 2.74 | 139    | 2.54 | 154    | 2.37 | 166    | 2.20 | 176    | 2.05 |
|   | 60  | 86                            | 2.96 | 108    | 2.74 | 127    | 2.55 | 144    | 2.39 | 158    | 2.24 | 169    | 2.07 | 179    | 1.94 |
|   | 70  | 94                            | 2.74 | 116    | 2.62 | 134    | 2.43 | 149    | 2.25 | 162    | 2.10 | 172    | 1.94 | 182    | 1.82 |

\* Final temperature of air leaving heater.

† Condensation in pounds per square foot of heating surface per hour.



# Sturtevant Heaters

## (All Types Except Return Bend)

**Steam Pressure**  
40 Pounds Gauge

**Final Temperatures and Condensations**

**Steam Temperature**  
287° F.

| Velocity through Heater<br>in Feet per minute<br>at 68 Degrees F. | Temperature of<br>Entering Air<br>Degrees F. | Number of 4-Row Sections Deep |      |        |      |        |      |        |      |        |      |        |      |        |      |
|---|--|-------------------------------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|
|   |  | 1                             |      | 2      |      | 3      |      | 4      |      | 5      |      | 6      |      | 7      |      |
|   |  | F. T.*                        |      | C.†    |      | F. T.* |      | C.†    |      | F. T.* |      | C.†    |      | F. T.* |      |
|   |  | F. T.*                        | C.†  | F. T.* | C.†  | F. T.* | C.†  | F. T.* | C.†  | F. T.* | C.†  | F. T.* | C.†  | F. T.* | C.†  |
| 600   | -40  | 49                            | 3.46 | 101    | 2.74 | 138    | 2.31 | 163    | 1.97 | 182    | 1.73 | 198    | 1.54 | 211    | 1.40 |
|   | -30  | 52                            | 3.19 | 104    | 2.61 | 140    | 2.20 | 164    | 1.89 | 184    | 1.66 | 199    | 1.48 | 212    | 1.35 |
|   | -20  | 57                            | 3.00 | 107    | 2.47 | 142    | 2.10 | 166    | 1.81 | 185    | 1.59 | 200    | 1.43 | 212    | 1.29 |
|   | -10  | 62                            | 2.80 | 111    | 2.35 | 144    | 2.00 | 168    | 1.73 | 186    | 1.52 | 201    | 1.37 | 213    | 1.24 |
|   | 0  | 67                            | 2.61 | 115    | 2.21 | 147    | 1.90 | 170    | 1.65 | 188    | 1.46 | 202    | 1.31 | 214    | 1.19 |
|   | 10   | 74                            | 2.49 | 119    | 2.12 | 150    | 1.82 | 172    | 1.58 | 190    | 1.40 | 204    | 1.26 | 215    | 1.14 |
|   | 20   | 80                            | 2.33 | 123    | 2.00 | 153    | 1.72 | 175    | 1.51 | 192    | 1.34 | 206    | 1.21 | 217    | 1.10 |
|   | 30   | 87                            | 2.22 | 128    | 1.90 | 156    | 1.63 | 178    | 1.44 | 194    | 1.28 | 208    | 1.15 | 218    | 1.05 |
|   | 40   | 94                            | 2.10 | 133    | 1.81 | 160    | 1.56 | 180    | 1.36 | 196    | 1.21 | 209    | 1.10 | 219    | 1.00 |
|   | 50   | 102                           | 2.02 | 139    | 1.73 | 164    | 1.48 | 183    | 1.29 | 198    | 1.15 | 211    | 1.04 | 221    | 0.95 |
|   | 60   | 110                           | 1.94 | 144    | 1.63 | 167    | 1.39 | 186    | 1.22 | 201    | 1.10 | 213    | 0.99 | 222    | 0.90 |
|   | 70   | 117                           | 1.83 | 148    | 1.52 | 171    | 1.31 | 189    | 1.16 | 203    | 1.03 | 215    | 0.94 | 224    | 0.86 |
| 800   | -40  | 41                            | 4.20 | 91     | 3.40 | 127    | 2.88 | 154    | 2.51 | 174    | 2.22 | 190    | 1.99 | 204    | 1.81 |
|   | -30  | 45                            | 3.89 | 94     | 3.22 | 129    | 2.75 | 156    | 2.41 | 176    | 2.13 | 192    | 1.92 | 204    | 1.73 |
|   | -20  | 51                            | 3.68 | 98     | 3.06 | 133    | 2.64 | 158    | 2.30 | 177    | 2.04 | 193    | 1.84 | 206    | 1.67 |
|   | -10  | 56                            | 3.42 | 102    | 2.90 | 136    | 2.52 | 160    | 2.20 | 179    | 1.96 | 194    | 1.76 | 207    | 1.61 |
|   | 0  | 62                            | 3.21 | 106    | 2.75 | 139    | 2.40 | 162    | 2.10 | 181    | 1.87 | 196    | 1.69 | 208    | 1.54 |
|   | 10   | 69                            | 3.06 | 111    | 2.62 | 143    | 2.30 | 165    | 2.01 | 183    | 1.79 | 198    | 1.62 | 210    | 1.48 |
|   | 20   | 75                            | 2.85 | 116    | 2.49 | 146    | 2.18 | 168    | 1.92 | 185    | 1.71 | 200    | 1.55 | 211    | 1.41 |
|   | 30   | 83                            | 2.75 | 121    | 2.36 | 150    | 2.07 | 171    | 1.83 | 188    | 1.64 | 201    | 1.48 | 213    | 1.35 |
|   | 40   | 90                            | 2.59 | 126    | 2.23 | 153    | 1.95 | 174    | 1.74 | 190    | 1.55 | 203    | 1.41 | 214    | 1.29 |
|   | 50   | 98                            | 2.49 | 132    | 2.12 | 158    | 1.86 | 177    | 1.65 | 193    | 1.48 | 206    | 1.35 | 216    | 1.23 |
|   | 60   | 105                           | 2.33 | 138    | 2.02 | 161    | 1.74 | 180    | 1.55 | 196    | 1.41 | 208    | 1.28 | 218    | 1.17 |
|   | 70   | 112                           | 2.18 | 143    | 1.89 | 166    | 1.66 | 184    | 1.48 | 198    | 1.33 | 210    | 1.21 | 220    | 1.11 |
| 1000  | -40  | 34                            | 4.80 | 83     | 3.99 | 118    | 3.41 | 146    | 3.01 | 167    | 2.68 | 185    | 2.43 | 199    | 2.21 |
|   | -30  | 40                            | 4.51 | 87     | 3.79 | 121    | 3.26 | 148    | 2.88 | 169    | 2.58 | 187    | 2.35 | 200    | 2.13 |
|   | -20  | 45                            | 4.22 | 91     | 3.60 | 124    | 3.11 | 150    | 2.75 | 171    | 2.47 | 188    | 2.25 | 201    | 2.05 |
|   | -10  | 51                            | 3.96 | 95     | 3.40 | 128    | 2.98 | 153    | 2.64 | 173    | 2.37 | 190    | 2.16 | 202    | 1.96 |
|   | 0  | 58                            | 3.76 | 100    | 3.24 | 131    | 2.83 | 156    | 2.53 | 176    | 2.28 | 192    | 2.07 | 204    | 1.89 |
|   | 10   | 65                            | 3.57 | 105    | 3.08 | 135    | 2.70 | 159    | 2.41 | 179    | 2.19 | 194    | 1.99 | 206    | 1.81 |
|   | 20   | 72                            | 3.37 | 110    | 2.92 | 139    | 2.57 | 162    | 2.39 | 181    | 2.09 | 196    | 1.90 | 207    | 1.73 |
|   | 30   | 80                            | 3.21 | 116    | 2.79 | 143    | 2.44 | 166    | 2.20 | 184    | 1.99 | 198    | 1.82 | 209    | 1.66 |
|   | 40   | 87                            | 3.05 | 121    | 2.62 | 148    | 2.33 | 169    | 2.09 | 187    | 1.90 | 200    | 1.73 | 211    | 1.58 |
|   | 50   | 94                            | 2.85 | 127    | 2.49 | 152    | 2.20 | 173    | 1.99 | 190    | 1.81 | 202    | 1.64 | 213    | 1.51 |
|   | 60   | 102                           | 2.72 | 133    | 2.37 | 157    | 2.09 | 177    | 1.89 | 192    | 1.71 | 204    | 1.56 | 215    | 1.43 |
|   | 70   | 109                           | 2.53 | 138    | 2.20 | 161    | 1.96 | 180    | 1.78 | 195    | 1.62 | 207    | 1.48 | 217    | 1.36 |

\* Final temperature of air leaving heater.

† Condensation in pounds per square foot of heating surface per hour.

# Sturtevant Heaters (All Types Except Return Bend)

**Steam Pressure**  
40 Pounds Gauge

**Final Temperatures and Condensations**

**Steam Temperature**  
287° F.

| Velocity through Heater<br>in Feet per minute<br>at 65 Degrees F. | Temperature of<br>Entering Air<br>Degrees F. | Number of 4-Row Sections Deep |      |        |      |        |      |        |      |        |      |        |      |        |      |
|---|--|-------------------------------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|
|   |  | 1                             |      | 2      |      | 3      |      | 4      |      | 5      |      | 6      |      | 7      |      |
|   |  | F. T.*                        | C.†  | F. T.* | C.†  | F. T.* | C.†  | F. T.* | C.†  | F. T.* | C.†  | F. T.* | C.†  | F. T.* | C.†  |
| 1200  | —40  | 26                            | 5.13 | 74     | 4.43 | 108    | 3.84 | 136    | 3.42 | 159    | 3.10 | 176    | 2.80 | 191    | 2.57 |
|   | —30  | 32                            | 4.82 | 78     | 4.20 | 112    | 3.68 | 139    | 3.28 | 161    | 2.97 | 178    | 2.70 | 192    | 2.47 |
|   | —20  | 39                            | 4.59 | 83     | 4.00 | 116    | 3.53 | 142    | 3.15 | 163    | 2.85 | 180    | 2.59 | 194    | 2.38 |
|   | —10  | 46                            | 4.36 | 88     | 3.81 | 120    | 3.37 | 146    | 3.03 | 166    | 2.74 | 182    | 2.49 | 195    | 2.28 |
|   | 0  | 54                            | 4.20 | 94     | 3.65 | 124    | 3.22 | 150    | 2.92 | 169    | 2.63 | 184    | 2.39 | 198    | 2.20 |
|   | 10   | 61                            | 3.97 | 98     | 3.42 | 128    | 3.06 | 153    | 2.78 | 171    | 2.51 | 186    | 2.28 | 199    | 2.10 |
|   | 20   | 70                            | 3.89 | 105    | 3.30 | 134    | 2.96 | 156    | 2.64 | 174    | 2.40 | 189    | 2.19 | 201    | 2.01 |
|   | 30   | 77                            | 3.66 | 111    | 3.15 | 138    | 2.80 | 160    | 2.53 | 177    | 2.29 | 192    | 2.10 | 203    | 1.92 |
|   | 40   | 84                            | 3.42 | 116    | 2.95 | 143    | 2.67 | 164    | 2.41 | 180    | 2.18 | 194    | 2.00 | 205    | 1.83 |
|   | 50   | 91                            | 3.19 | 122    | 2.80 | 148    | 2.54 | 167    | 2.27 | 183    | 2.07 | 196    | 1.89 | 207    | 1.74 |
|   | 60   | 98                            | 2.95 | 126    | 2.64 | 152    | 2.38 | 171    | 2.16 | 186    | 1.96 | 199    | 1.80 | 209    | 1.66 |
|   | 70   | 105                           | 2.72 | 134    | 2.49 | 156    | 2.23 | 174    | 2.02 | 189    | 1.85 | 201    | 1.70 | 212    | 1.58 |
| 1500  | —40  | 19                            | 5.74 | 63     | 5.00 | 96     | 4.40 | 123    | 3.96 | 145    | 3.60 | 163    | 3.29 | 178    | 3.03 |
|   | —30  | 25                            | 5.35 | 68     | 4.76 | 100    | 4.21 | 126    | 3.79 | 147    | 3.44 | 165    | 3.16 | 180    | 2.92 |
|   | —20  | 33                            | 5.15 | 74     | 4.57 | 105    | 4.05 | 130    | 3.65 | 151    | 3.32 | 168    | 3.04 | 182    | 2.80 |
|   | —10  | 40                            | 4.86 | 79     | 4.32 | 109    | 3.86 | 133    | 3.48 | 154    | 3.19 | 170    | 2.91 | 184    | 2.69 |
|   | 0  | 47                            | 4.57 | 85     | 4.13 | 114    | 3.69 | 138    | 3.36 | 157    | 3.05 | 173    | 2.80 | 186    | 2.58 |
|   | 10   | 56                            | 4.47 | 91     | 3.94 | 119    | 3.53 | 141    | 3.18 | 160    | 2.92 | 175    | 2.67 | 189    | 2.49 |
|   | 20   | 64                            | 4.28 | 97     | 3.74 | 123    | 3.34 | 146    | 3.06 | 163    | 2.78 | 178    | 2.56 | 191    | 2.37 |
|   | 30   | 72                            | 4.08 | 104    | 3.59 | 129    | 3.20 | 150    | 2.92 | 167    | 2.66 | 181    | 2.45 | 194    | 2.28 |
|   | 40   | 79                            | 3.79 | 109    | 3.35 | 133    | 3.01 | 154    | 2.77 | 170    | 2.53 | 184    | 2.33 | 196    | 2.17 |
|   | 50   | 87                            | 3.60 | 115    | 3.16 | 139    | 2.88 | 158    | 2.62 | 174    | 2.41 | 187    | 2.22 | 198    | 2.06 |
|   | 60   | 94                            | 3.30 | 121    | 2.96 | 144    | 2.72 | 162    | 2.48 | 177    | 2.27 | 190    | 2.11 | 201    | 1.96 |
|   | 70   | 102                           | 3.11 | 127    | 2.77 | 148    | 2.52 | 166    | 2.34 | 180    | 2.14 | 193    | 1.99 | 203    | 1.85 |
| 1800  | —40  | 14                            | 6.30 | 54     | 5.48 | 88     | 4.97 | 115    | 4.52 | 137    | 4.13 | 156    | 3.80 | 172    | 3.53 |
|   | —30  | 20                            | 5.83 | 60     | 5.25 | 92     | 4.74 | 118    | 4.32 | 140    | 3.97 | 158    | 3.65 | 174    | 3.40 |
|   | —20  | 28                            | 5.60 | 66     | 5.02 | 97     | 4.55 | 122    | 4.14 | 144    | 3.83 | 161    | 3.51 | 176    | 3.27 |
|   | —10  | 35                            | 5.25 | 72     | 4.78 | 102    | 4.35 | 126    | 3.96 | 147    | 3.66 | 164    | 3.38 | 178    | 3.13 |
|   | 0  | 43                            | 5.02 | 79     | 4.61 | 107    | 4.16 | 131    | 3.82 | 151    | 3.52 | 167    | 3.24 | 181    | 3.02 |
|   | 10   | 51                            | 4.78 | 86     | 4.43 | 113    | 4.00 | 136    | 3.67 | 155    | 3.38 | 170    | 3.10 | 184    | 2.90 |
|   | 20   | 60                            | 4.67 | 92     | 4.20 | 118    | 3.81 | 140    | 3.50 | 158    | 3.22 | 174    | 2.99 | 187    | 2.78 |
|   | 30   | 68                            | 4.43 | 99     | 4.02 | 123    | 3.61 | 145    | 3.35 | 162    | 3.08 | 177    | 2.85 | 190    | 2.67 |
|   | 40   | 76                            | 4.20 | 105    | 3.79 | 129    | 3.46 | 149    | 3.18 | 166    | 2.94 | 180    | 2.72 | 192    | 2.53 |
|   | 50   | 84                            | 3.97 | 112    | 3.62 | 135    | 3.30 | 154    | 3.03 | 170    | 2.80 | 184    | 2.60 | 195    | 2.42 |
|   | 60   | 92                            | 3.73 | 118    | 3.38 | 140    | 3.11 | 158    | 2.86 | 174    | 2.66 | 187    | 2.46 | 198    | 2.30 |
|   | 70   | 100                           | 3.50 | 125    | 3.21 | 146    | 2.95 | 163    | 2.71 | 178    | 2.52 | 190    | 2.33 | 201    | 2.18 |

Final temperature of air leaving heater.

† Condensation in pounds per square foot of heating surface per hour.

# Sturtevant Heaters

## (All Types Except Return Bend)

**Steam Pressure**  
80 Pounds Gauge

**Final Temperatures and Condensations**

**Steam Temperature**  
324° F.

| Velocity through Heater<br>in Feet per minute<br>at 65 Degrees F. |     | Number of 4-Row Sections Deep |      |        |      |        |      |        |      |        |      |        |      |        |      |
|---|-----|-------------------------------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|
|   |     | 1                             |      | 2      |      | 3      |      | 4      |      | 5      |      | 6      |      | 7      |      |
|   |     | F. T.*                        | C.†  | F. T.* | C.†  | F. T.* | C.†  | F. T.* | C.†  | F. T.* | C.†  | F. T.* | C.†  | F. T.* | C.†  |
| 600   | -40 | 67                            | 1.26 | 121    | 3.26 | 164    | 2.71 | 193    | 2.32 | 215    | 2.03 | 231    | 1.80 | 244    | 1.62 |
|   | -30 | 71                            | 4.02 | 126    | 3.11 | 165    | 2.59 | 191    | 2.23 | 216    | 1.96 | 232    | 1.74 | 245    | 1.56 |
|   | -20 | 74                            | 3.71 | 128    | 2.95 | 167    | 2.48 | 195    | 2.14 | 217    | 1.89 | 233    | 1.68 | 245    | 1.51 |
|   | -10 | 80                            | 3.58 | 132    | 2.83 | 169    | 2.38 | 197    | 2.06 | 218    | 1.82 | 234    | 1.62 | 246    | 1.46 |
|   | 0   | 84                            | 3.35 | 135    | 2.69 | 172    | 2.28 | 199    | 1.98 | 219    | 1.71 | 235    | 1.56 | 247    | 1.40 |
|   | 10  | 89                            | 3.15 | 139    | 2.57 | 174    | 2.18 | 201    | 1.90 | 221    | 1.68 | 236    | 1.50 | 248    | 1.35 |
|   | 20  | 95                            | 2.99 | 143    | 2.45 | 177    | 2.08 | 203    | 1.82 | 223    | 1.62 | 237    | 1.44 | 249    | 1.30 |
|   | 30  | 100                           | 2.79 | 147    | 2.33 | 180    | 1.99 | 205    | 1.71 | 224    | 1.54 | 238    | 1.38 | 250    | 1.25 |
|   | 40  | 107                           | 2.67 | 151    | 2.21 | 184    | 1.91 | 207    | 1.66 | 226    | 1.48 | 240    | 1.33 | 251    | 1.20 |
|   | 50  | 113                           | 2.51 | 156    | 2.11 | 187    | 1.82 | 210    | 1.59 | 228    | 1.42 | 241    | 1.27 | 252    | 1.15 |
|   | 60  | 119                           | 2.35 | 160    | 1.99 | 190    | 1.73 | 213    | 1.52 | 230    | 1.35 | 243    | 1.21 | 254    | 1.10 |
|   | 70  | 125                           | 2.19 | 165    | 1.89 | 193    | 1.63 | 215    | 1.44 | 232    | 1.29 | 244    | 1.15 | 255    | 1.05 |
|   | -40 | 56                            | 5.10 | 114    | 4.09 | 154    | 3.43 | 183    | 2.96 | 205    | 2.60 | 223    | 2.33 | 237    | 2.10 |
|   | -30 | 61                            | 4.83 | 118    | 3.93 | 157    | 3.31 | 185    | 2.85 | 207    | 2.52 | 224    | 2.25 | 238    | 2.03 |
|   | -20 | 67                            | 4.67 | 121    | 3.75 | 159    | 3.17 | 187    | 2.75 | 208    | 2.42 | 225    | 2.17 | 239    | 1.96 |
|   | -10 | 72                            | 4.35 | 124    | 3.56 | 161    | 3.03 | 189    | 2.64 | 209    | 2.33 | 226    | 2.09 | 240    | 1.90 |
| 800   | 0   | 78                            | 4.14 | 129    | 3.43 | 165    | 2.92 | 191    | 2.53 | 211    | 2.24 | 228    | 2.02 | 241    | 1.83 |
|   | 10  | 85                            | 3.98 | 133    | 3.27 | 168    | 2.80 | 194    | 2.44 | 213    | 2.16 | 229    | 1.94 | 242    | 1.76 |
|   | 20  | 91                            | 3.77 | 138    | 3.13 | 171    | 2.67 | 196    | 2.33 | 215    | 2.07 | 231    | 1.87 | 243    | 1.69 |
|   | 30  | 97                            | 3.56 | 142    | 2.97 | 174    | 2.55 | 198    | 2.23 | 217    | 1.99 | 232    | 1.79 | 244    | 1.62 |
|   | 40  | 103                           | 3.34 | 146    | 2.81 | 177    | 2.42 | 201    | 2.14 | 219    | 1.90 | 234    | 1.72 | 246    | 1.56 |
|   | 50  | 110                           | 3.19 | 151    | 2.68 | 181    | 2.32 | 203    | 2.03 | 221    | 1.82 | 235    | 1.64 | 247    | 1.49 |
|   | 60  | 117                           | 3.03 | 156    | 2.55 | 185    | 2.21 | 206    | 1.94 | 224    | 1.74 | 237    | 1.57 | 248    | 1.43 |
|   | 70  | 123                           | 2.81 | 161    | 2.42 | 188    | 2.09 | 209    | 1.85 | 226    | 1.66 | 239    | 1.50 | 250    | 1.38 |
|   | -40 | 48                            | 5.81 | 105    | 4.81 | 145    | 4.10 | 174    | 3.55 | 197    | 3.15 | 215    | 2.82 | 229    | 2.55 |
|   | -30 | 54                            | 5.58 | 109    | 4.61 | 148    | 3.94 | 176    | 3.42 | 199    | 3.04 | 217    | 2.73 | 231    | 2.48 |
|   | -20 | 60                            | 5.31 | 113    | 4.42 | 150    | 3.76 | 179    | 3.30 | 200    | 2.92 | 218    | 2.63 | 232    | 2.39 |
|   | -10 | 65                            | 4.98 | 117    | 4.22 | 154    | 3.63 | 181    | 3.17 | 202    | 2.81 | 219    | 2.54 | 233    | 2.30 |
|   | 0   | 73                            | 4.85 | 122    | 4.05 | 157    | 3.47 | 183    | 3.04 | 204    | 2.71 | 221    | 2.45 | 234    | 2.22 |
|   | 10  | 79                            | 4.58 | 126    | 3.85 | 160    | 3.32 | 186    | 2.92 | 206    | 2.60 | 223    | 2.36 | 236    | 2.14 |
|   | 20  | 86                            | 4.38 | 131    | 3.68 | 164    | 3.19 | 189    | 2.81 | 208    | 2.50 | 224    | 2.26 | 237    | 2.06 |
|   | 30  | 93                            | 4.18 | 136    | 3.52 | 167    | 3.03 | 191    | 2.67 | 210    | 2.39 | 226    | 2.17 | 239    | 1.98 |
| 1000  | 40  | 99                            | 3.92 | 140    | 3.32 | 171    | 2.90 | 194    | 2.55 | 213    | 2.30 | 228    | 2.08 | 240    | 1.90 |
|   | 50  | 106                           | 3.73 | 145    | 3.15 | 175    | 2.77 | 197    | 2.44 | 215    | 2.19 | 230    | 1.99 | 241    | 1.81 |
|   | 60  | 113                           | 3.52 | 150    | 2.99 | 179    | 2.63 | 200    | 2.32 | 218    | 2.08 | 232    | 1.91 | 243    | 1.74 |
|   | 70  | 120                           | 3.32 | 156    | 2.85 | 183    | 2.50 | 203    | 2.21 | 220    | 1.99 | 234    | 1.81 | 244    | 1.65 |

\* Final temperature of air leaving heater.

† Condensation in pounds per square foot of heating surface per hour.

# Sturtevant Heaters

## (All Types Except Return Bend)

**Steam Pressure**  
80 Pounds Gauge

**Final Temperatures and Condensations**

**Steam Temperature**  
324° F.

| Velocity through Heater<br>in Feet per minute<br>at 65 Degrees F. | Temperature of<br>Entering Air<br>Degrees F. | Number of 4-Row Sections Deep |      |        |      |        |      |        |      |        |      |        |      |        |      |
|---|--|-------------------------------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|
|   |  | 1                             |      | 2      |      | 3      |      | 4      |      | 5      |      | 6      |      | 7      |      |
|   |  | F. T.*                        | C.†  | F. T.* | C.†  | F. T.* | C.†  | F. T.* | C.†  | F. T.* | C.†  | F. T.* | C.†  | F. T.* | C.†  |
| 1200  | -40  | 39                            | 6.30 | 95     | 5.38 | 135    | 4.63 | 165    | 4.08 | 187    | 3.62 | 206    | 3.27 | 221    | 2.97 |
|   | -30  | 45                            | 5.99 | 100    | 5.18 | 138    | 4.45 | 167    | 3.92 | 189    | 3.49 | 208    | 3.16 | 223    | 2.88 |
|   | -20  | 53                            | 5.82 | 105    | 4.98 | 142    | 4.29 | 170    | 3.78 | 192    | 3.38 | 210    | 3.05 | 225    | 2.79 |
|   | -10  | 61                            | 5.66 | 110    | 4.78 | 146    | 4.13 | 173    | 3.65 | 194    | 3.25 | 212    | 2.95 | 226    | 2.68 |
|   | 0  | 67                            | 5.34 | 114    | 4.51 | 149    | 3.95 | 175    | 3.48 | 196    | 3.12 | 213    | 2.83 | 227    | 2.58 |
|   | 10   | 75                            | 5.18 | 120    | 4.38 | 151    | 3.81 | 179    | 3.37 | 199    | 3.01 | 216    | 2.73 | 229    | 2.49 |
|   | 20   | 81                            | 4.86 | 125    | 4.18 | 157    | 3.63 | 181    | 3.21 | 201    | 2.88 | 217    | 2.62 | 231    | 2.40 |
|   | 30   | 89                            | 4.70 | 130    | 3.98 | 161    | 3.47 | 185    | 3.09 | 204    | 2.77 | 220    | 2.52 | 233    | 2.31 |
|   | 40   | 96                            | 4.46 | 135    | 3.69 | 165    | 3.31 | 188    | 2.95 | 207    | 2.66 | 222    | 2.42 | 235    | 2.22 |
|   | 50   | 103                           | 4.22 | 140    | 3.49 | 169    | 3.15 | 191    | 2.81 | 209    | 2.53 | 224    | 2.31 | 237    | 2.13 |
|   | 60   | 109                           | 3.90 | 145    | 3.30 | 173    | 2.99 | 194    | 2.67 | 211    | 2.40 | 226    | 2.20 | 238    | 2.03 |
|   | 70   | 116                           | 3.66 | 150    | 3.10 | 177    | 2.83 | 197    | 2.53 | 214    | 2.29 | 228    | 2.10 | 240    | 1.93 |
| 1500  | -40  | 30                            | 6.98 | 80     | 5.98 | 117    | 5.21 | 147    | 4.66 | 171    | 4.20 | 191    | 3.84 | 207    | 3.51 |
|   | -30  | 36                            | 6.57 | 85     | 5.73 | 121    | 5.01 | 151    | 4.51 | 174    | 4.06 | 193    | 3.70 | 209    | 3.40 |
|   | -20  | 43                            | 6.28 | 90     | 5.48 | 125    | 4.81 | 154    | 4.33 | 177    | 3.92 | 195    | 3.57 | 211    | 3.29 |
|   | -10  | 51                            | 6.08 | 96     | 5.28 | 130    | 4.65 | 158    | 4.18 | 180    | 3.78 | 198    | 3.45 | 213    | 3.17 |
|   | 0  | 58                            | 5.78 | 102    | 5.08 | 135    | 4.48 | 161    | 4.01 | 183    | 3.65 | 201    | 3.34 | 216    | 3.07 |
|   | 10   | 66                            | 5.58 | 106    | 4.78 | 139    | 4.28 | 166    | 3.88 | 185    | 3.49 | 203    | 3.20 | 219    | 2.97 |
|   | 20   | 72                            | 5.18 | 112    | 4.58 | 143    | 4.08 | 168    | 3.68 | 188    | 3.35 | 205    | 3.07 | 221    | 2.86 |
|   | 30   | 80                            | 4.98 | 117    | 4.33 | 147    | 3.88 | 171    | 3.51 | 191    | 3.21 | 207    | 2.94 | 223    | 2.75 |
|   | 40   | 87                            | 4.68 | 123    | 4.13 | 152    | 3.72 | 175    | 3.36 | 194    | 3.07 | 210    | 2.82 | 225    | 2.63 |
|   | 50   | 95                            | 4.48 | 129    | 3.93 | 157    | 3.55 | 179    | 3.21 | 197    | 2.93 | 213    | 2.70 | 227    | 2.52 |
|   | 60   | 102                           | 4.18 | 135    | 3.73 | 162    | 3.39 | 183    | 3.06 | 201    | 2.81 | 217    | 2.60 | 230    | 2.42 |
|   | 70   | 110                           | 3.98 | 142    | 3.58 | 167    | 3.22 | 188    | 2.94 | 205    | 2.69 | 221    | 2.51 | 233    | 2.32 |
| 1800  | -40  | 22                            | 7.41 | 71     | 6.63 | 109    | 5.93 | 139    | 5.34 | 163    | 4.85 | 183    | 4.44 | 200    | 4.10 |
|   | -30  | 30                            | 7.17 | 78     | 6.45 | 114    | 5.73 | 142    | 5.14 | 166    | 4.68 | 186    | 4.30 | 202    | 3.96 |
|   | -20  | 38                            | 6.81 | 84     | 6.21 | 118    | 5.49 | 146    | 4.96 | 170    | 4.54 | 188    | 4.14 | 204    | 3.83 |
|   | -10  | 46                            | 6.69 | 89     | 5.91 | 123    | 5.29 | 150    | 4.78 | 172    | 4.35 | 191    | 4.00 | 207    | 3.71 |
|   | 0  | 54                            | 6.45 | 96     | 5.73 | 128    | 5.14 | 154    | 4.60 | 176    | 4.20 | 194    | 3.86 | 208    | 3.55 |
|   | 10   | 62                            | 6.21 | 102    | 5.50 | 133    | 4.90 | 158    | 4.42 | 179    | 4.04 | 197    | 3.72 | 212    | 3.45 |
|   | 20   | 70                            | 5.97 | 107    | 5.20 | 137    | 4.66 | 162    | 4.24 | 182    | 3.87 | 199    | 3.56 | 214    | 3.31 |
|   | 30   | 77                            | 5.61 | 114    | 5.02 | 142    | 4.46 | 166    | 4.06 | 186    | 3.73 | 202    | 3.42 | 216    | 3.18 |
|   | 40   | 85                            | 5.48 | 119    | 4.72 | 147    | 4.26 | 170    | 3.88 | 189    | 3.56 | 205    | 3.28 | 218    | 3.04 |
|   | 50   | 93                            | 5.14 | 126    | 4.54 | 152    | 4.06 | 175    | 3.73 | 193    | 3.42 | 208    | 3.14 | 220    | 2.90 |
|   | 60   | 100                           | 4.78 | 132    | 4.30 | 157    | 3.86 | 178    | 3.52 | 196    | 3.25 | 211    | 3.03 | 223    | 2.78 |
|   | 70   | 107                           | 4.42 | 137    | 4.00 | 162    | 3.66 | 182    | 3.34 | 199    | 3.08 | 214    | 2.87 | 226    | 2.66 |

Final temperature of air leaving heater.

† Condensation in pounds per square foot of heating surface per hour.

# Sturtevant Heaters—Return Bend Type

## Final Temperatures and Condensations

Steam Pressure  
0 Pounds Gauge

Steam Temperature  
212° F.

| Velocity through Heater<br>in Feet per minute<br>at 65 Degrees F. | Temperature of<br>Entering Air<br>Degrees F. | Number of 4-Row Sections Deep |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
|---|--|-------------------------------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|
|   |  | 1                             |      | 2      |      | 3      |      | 4      |      | 5      |      | 6      |      | 7      |      | 8      |      | 9      |      | 10     |      |
|   |  | F. T.*                        | C.†  | F. T.* | C.†  | F. T.* | C.†  | F. T.* | C.†  | F. T.* | C.†  | F. T.* | C.†  | F. T.* | C.†  | F. T.* | C.†  | F. T.* | C.†  | F. T.* | C.†  |
| 600   | —40  | —1                            | 2.36 | 27     | 2.03 | 50     | 1.81 | 68     | 1.63 | 84     | 1.55 | 97     | 1.38 | 108    | 1.28 | 119    | 1.20 | 127    | 1.12 | 134    | 1.05 |
|   | —30  | 6                             | 2.18 | 33     | 1.91 | 54     | 1.69 | 72     | 1.54 | 87     | 1.41 | 100    | 1.31 | 111    | 1.22 | 121    | 1.14 | 129    | 1.07 | 136    | 1.00 |
|   | —20  | 12                            | 1.93 | 38     | 1.75 | 59     | 1.59 | 76     | 1.45 | 90     | 1.33 | 102    | 1.23 | 113    | 1.15 | 123    | 1.08 | 130    | 1.01 | 137    | 0.95 |
|   | —10  | 20                            | 1.81 | 44     | 1.63 | 64     | 1.49 | 80     | 1.36 | 94     | 1.26 | 105    | 1.16 | 116    | 1.09 | 125    | 1.02 | 132    | 0.96 | 139    | 0.90 |
|   | 0  | 27                            | 1.63 | 50     | 1.51 | 69     | 1.39 | 84     | 1.27 | 98     | 1.19 | 109    | 1.10 | 119    | 1.03 | 127    | 0.96 | 134    | 0.90 | 141    | 0.85 |
|   | 10   | 36                            | 1.57 | 57     | 1.42 | 74     | 1.29 | 89     | 1.19 | 101    | 1.10 | 112    | 1.03 | 122    | 0.97 | 130    | 0.91 | 137    | 0.85 | 142    | 0.80 |
|   | 20   | 44                            | 1.45 | 64     | 1.33 | 80     | 1.21 | 94     | 1.12 | 105    | 1.03 | 116    | 0.97 | 125    | 0.91 | 132    | 0.85 | 139    | 0.80 | 144    | 0.75 |
|   | 30   | 52                            | 1.33 | 71     | 1.24 | 86     | 1.13 | 99     | 1.04 | 110    | 0.97 | 120    | 0.91 | 128    | 0.85 | 135    | 0.79 | 141    | 0.75 | 147    | 0.71 |
|   | 40   | 60                            | 1.21 | 78     | 1.15 | 92     | 1.05 | 103    | 0.95 | 114    | 0.90 | 124    | 0.85 | 131    | 0.79 | 138    | 0.74 | 144    | 0.70 | 149    | 0.66 |
|   | 50   | 68                            | 1.09 | 84     | 1.03 | 97     | 0.95 | 108    | 0.88 | 119    | 0.83 | 127    | 0.78 | 134    | 0.73 | 140    | 0.68 | 146    | 0.65 | 151    | 0.61 |
|   | 60   | 77                            | 1.03 | 92     | 0.97 | 103    | 0.87 | 114    | 0.82 | 124    | 0.77 | 131    | 0.72 | 138    | 0.67 | 144    | 0.64 | 149    | 0.60 | 154    | 0.57 |
|   | 70   | 86                            | 0.97 | 98     | 0.85 | 110    | 0.81 | 120    | 0.76 | 128    | 0.70 | 135    | 0.65 | 141    | 0.61 | 147    | 0.58 | 152    | 0.55 | 156    | 0.52 |
| 800   | —40  | —5                            | 2.82 | 21     | 2.46 | 43     | 2.23 | 62     | 2.06 | 77     | 1.89 | 90     | 1.75 | 101    | 1.63 | 112    | 1.53 | 120    | 1.43 | 128    | 1.36 |
|   | —30  | 3                             | 2.66 | 29     | 2.38 | 49     | 2.12 | 67     | 1.95 | 82     | 1.81 | 94     | 1.67 | 104    | 1.54 | 114    | 1.45 | 122    | 1.36 | 130    | 1.29 |
|   | —20  | 9                             | 2.34 | 33     | 2.14 | 53     | 1.96 | 70     | 1.81 | 85     | 1.70 | 96     | 1.56 | 107    | 1.46 | 117    | 1.38 | 125    | 1.30 | 132    | 1.23 |
|   | —10  | 17                            | 2.18 | 40     | 2.02 | 59     | 1.85 | 75     | 1.71 | 88     | 1.58 | 99     | 1.47 | 109    | 1.37 | 119    | 1.30 | 127    | 1.23 | 134    | 1.16 |
|   | 0  | 25                            | 2.02 | 47     | 1.90 | 65     | 1.75 | 80     | 1.61 | 92     | 1.48 | 103    | 1.39 | 113    | 1.30 | 121    | 1.22 | 129    | 1.16 | 136    | 1.10 |
|   | 10   | 34                            | 1.94 | 54     | 1.77 | 71     | 1.64 | 85     | 1.51 | 96     | 1.39 | 107    | 1.30 | 117    | 1.23 | 125    | 1.16 | 132    | 1.09 | 138    | 1.03 |
|   | 20   | 43                            | 1.86 | 61     | 1.65 | 77     | 1.53 | 90     | 1.41 | 101    | 1.31 | 111    | 1.22 | 120    | 1.15 | 127    | 1.08 | 135    | 1.03 | 141    | 0.98 |
|   | 30   | 51                            | 1.69 | 68     | 1.53 | 83     | 1.43 | 95     | 1.31 | 105    | 1.21 | 115    | 1.14 | 123    | 1.07 | 131    | 1.02 | 137    | 0.96 | 143    | 0.91 |
|   | 40   | 59                            | 1.53 | 75     | 1.41 | 88     | 1.29 | 99     | 1.19 | 110    | 1.13 | 119    | 1.06 | 127    | 1.00 | 134    | 0.95 | 140    | 0.90 | 146    | 0.86 |
|   | 50   | 68                            | 1.45 | 83     | 1.33 | 95     | 1.21 | 105    | 1.11 | 115    | 1.05 | 123    | 0.98 | 131    | 0.93 | 137    | 0.88 | 143    | 0.83 | 149    | 0.80 |
|   | 60   | 76                            | 1.29 | 89     | 1.17 | 100    | 1.08 | 110    | 1.01 | 119    | 0.95 | 127    | 0.90 | 134    | 0.85 | 141    | 0.82 | 143    | 0.78 | 151    | 0.73 |
|   | 70   | 84                            | 1.13 | 96     | 1.05 | 106    | 0.97 | 116    | 0.93 | 124    | 0.87 | 132    | 0.83 | 138    | 0.78 | 144    | 0.75 | 149    | 0.71 | 154    | 0.68 |
| 1000  | —40  | —8                            | 3.23 | 18     | 2.93 | 39     | 2.66 | 57     | 2.45 | 72     | 2.26 | 86     | 2.12 | 98     | 1.99 | 107    | 1.85 | 116    | 1.75 | 124    | 1.66 |
|   | —30  | 0                             | 3.03 | 25     | 2.78 | 45     | 2.52 | 62     | 2.32 | 76     | 2.14 | 89     | 2.00 | 101    | 1.89 | 110    | 1.77 | 118    | 1.66 | 126    | 1.61 |
|   | —20  | 8                             | 2.83 | 31     | 2.67 | 50     | 2.35 | 66     | 2.17 | 80     | 2.02 | 93     | 1.90 | 104    | 1.79 | 112    | 1.66 | 121    | 1.58 | 128    | 1.53 |
|   | —10  | 16                            | 2.62 | 37     | 2.37 | 56     | 2.22 | 71     | 2.04 | 85     | 1.92 | 97     | 1.80 | 106    | 1.67 | 115    | 1.58 | 123    | 1.49 | 131    | 1.42 |
|   | 0  | 25                            | 2.52 | 45     | 2.27 | 62     | 2.09 | 76     | 1.92 | 89     | 1.80 | 101    | 1.70 | 110    | 1.59 | 118    | 1.49 | 126    | 1.41 | 133    | 1.34 |
|   | 10   | 33                            | 2.32 | 51     | 2.07 | 67     | 1.92 | 81     | 1.79 | 94     | 1.70 | 104    | 1.58 | 113    | 1.49 | 121    | 1.40 | 129    | 1.33 | 135    | 1.26 |
|   | 20   | 41                            | 2.12 | 59     | 1.97 | 73     | 1.78 | 87     | 1.69 | 99     | 1.59 | 108    | 1.48 | 117    | 1.40 | 125    | 1.32 | 132    | 1.26 | 138    | 1.19 |
|   | 30   | 49                            | 1.92 | 65     | 1.77 | 79     | 1.65 | 92     | 1.56 | 103    | 1.47 | 111    | 1.36 | 120    | 1.30 | 128    | 1.24 | 135    | 1.18 | 140    | 1.11 |
|   | 40   | 58                            | 1.82 | 73     | 1.67 | 86     | 1.55 | 98     | 1.46 | 107    | 1.35 | 116    | 1.28 | 124    | 1.21 | 131    | 1.15 | 137    | 1.09 | 143    | 1.04 |
|   | 50   | 66                            | 1.62 | 80     | 1.51 | 93     | 1.45 | 103    | 1.34 | 112    | 1.25 | 121    | 1.19 | 128    | 1.12 | 135    | 1.07 | 141    | 1.02 | 146    | 0.97 |
|   | 60   | 74                            | 1.46 | 88     | 1.41 | 99     | 1.31 | 109    | 1.24 | 117    | 1.15 | 125    | 1.09 | 132    | 1.04 | 138    | 0.98 | 143    | 0.93 | 148    | 0.89 |
|   | 70   | 83                            | 1.36 | 96     | 1.31 | 106    | 1.21 | 115    | 1.14 | 123    | 1.07 | 130    | 1.01 | 136    | 0.95 | 142    | 0.91 | 147    | 0.86 | 152    | 0.83 |

\* Final temperature of air leaving heater.

† Condensation in pounds per square foot of heating surface per hour.

# Sturtevant Heaters—Return Bend Type

Final Temperatures and Condensations

Steam Pressure  
0 Pounds Gauge

Steam Temperature  
212° F.

| Velocity through Heater<br>in Feet per minute<br>at 65 Degrees F. | Temperature of<br>Entering Air<br>Degrees F. | Number of 4-Row Sections Deep |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
|---|--|-------------------------------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|
|   |  | 1                             |      | 2      |      | 3      |      | 4      |      | 5      |      | 6      |      | 7      |      | 8      |      | 9      |      | 10     |      |
|   |  | F. T.*                        |      | C.†    |      | F. T.* |      | C.†    |      | F. T.* |      | C.†    |      | F. T.* |      | C.†    |      | F. T.* |      | C.†    |      |
|   |  | F. T.*                        | C.†  | F. T.* | C.†  | F. T.* | C.†  | F. T.* | C.†  | F. T.* | C.†  | F. T.* | C.†  | F. T.* | C.†  | F. T.* | C.†  | F. T.* | C.†  | F. T.* | C.†  |
| 1200  | -40  | -12                           | 3.39 | 12     | 3.15 | 33     | 2.82 | 50     | 2.72 | 66     | 2.57 | 79     | 2.38 | 90     | 2.25 | 100    | 2.12 | 109    | 2.00 | 117    | 1.90 |
|   | -30  | -3                            | 3.26 | 20     | 3.03 | 39     | 2.78 | 55     | 2.57 | 71     | 2.45 | 83     | 2.28 | 94     | 2.14 | 103    | 2.01 | 112    | 1.91 | 120    | 1.81 |
|   | -20  | 6                             | 3.15 | 27     | 2.84 | 45     | 2.62 | 62     | 2.48 | 75     | 2.30 | 88     | 2.18 | 97     | 2.02 | 106    | 1.91 | 114    | 1.80 | 122    | 1.72 |
|   | -10  | 14                            | 2.90 | 34     | 2.66 | 51     | 2.46 | 66     | 2.30 | 80     | 2.18 | 91     | 2.04 | 100    | 1.90 | 109    | 1.79 | 117    | 1.71 | 125    | 1.63 |
|   | 0  | 22                            | 2.66 | 41     | 2.48 | 57     | 2.30 | 72     | 2.18 | 85     | 2.06 | 95     | 1.91 | 104    | 1.80 | 113    | 1.71 | 121    | 1.63 | 128    | 1.55 |
|   | 10   | 31                            | 2.54 | 48     | 2.30 | 64     | 2.18 | 78     | 2.05 | 89     | 1.92 | 99     | 1.79 | 108    | 1.70 | 116    | 1.60 | 124    | 1.53 | 131    | 1.46 |
|   | 20   | 39                            | 2.30 | 55     | 2.12 | 71     | 2.05 | 83     | 1.90 | 94     | 1.80 | 103    | 1.67 | 112    | 1.59 | 120    | 1.51 | 127    | 1.44 | 134    | 1.38 |
|   | 30   | 48                            | 2.17 | 63     | 1.99 | 77     | 1.89 | 89     | 1.78 | 98     | 1.65 | 107    | 1.55 | 116    | 1.48 | 124    | 1.42 | 130    | 1.35 | 137    | 1.29 |
|   | 40   | 56                            | 1.99 | 71     | 1.87 | 84     | 1.77 | 94     | 1.63 | 104    | 1.55 | 112    | 1.45 | 120    | 1.38 | 128    | 1.33 | 134    | 1.27 | 140    | 1.21 |
|   | 50   | 66                            | 1.93 | 79     | 1.75 | 90     | 1.61 | 100    | 1.51 | 109    | 1.43 | 117    | 1.35 | 125    | 1.29 | 132    | 1.24 | 138    | 1.18 | 143    | 1.12 |
|   | 60   | 75                            | 1.81 | 87     | 1.63 | 96     | 1.45 | 106    | 1.39 | 114    | 1.31 | 122    | 1.25 | 129    | 1.19 | 136    | 1.15 | 141    | 1.09 | 146    | 1.04 |
|   | 70   | 83                            | 1.57 | 93     | 1.39 | 103    | 1.33 | 111    | 1.24 | 120    | 1.21 | 127    | 1.15 | 133    | 1.09 | 139    | 1.04 | 144    | 0.99 | 149    | 0.96 |
| 1500  | -40  | -15                           | 3.85 | 7      | 3.55 | 25     | 3.27 | 42     | 3.10 | 57     | 2.93 | 70     | 2.77 | 80     | 2.59 | 90     | 2.45 | 100    | 2.35 | 109    | 2.25 |
|   | -30  | -5                            | 3.78 | 15     | 3.40 | 32     | 3.12 | 48     | 2.95 | 63     | 2.80 | 74     | 2.62 | 85     | 2.48 | 95     | 2.36 | 104    | 2.25 | 112    | 2.14 |
|   | -20  | 3                             | 3.47 | 22     | 3.17 | 38     | 2.92 | 54     | 2.80 | 67     | 2.63 | 78     | 2.47 | 89     | 2.36 | 98     | 2.23 | 107    | 2.13 | 115    | 2.04 |
|   | -10  | 11                            | 3.17 | 28     | 2.87 | 45     | 2.77 | 60     | 2.61 | 72     | 2.48 | 82     | 2.31 | 93     | 2.32 | 102    | 2.11 | 110    | 2.01 | 118    | 1.93 |
|   | 0  | 20                            | 3.02 | 36     | 2.72 | 52     | 2.62 | 66     | 2.49 | 77     | 2.32 | 87     | 2.19 | 97     | 2.09 | 106    | 2.00 | 114    | 1.91 | 121    | 1.83 |
|   | 10   | 28                            | 2.72 | 44     | 2.56 | 59     | 2.46 | 71     | 2.30 | 82     | 2.18 | 92     | 2.06 | 101    | 1.96 | 110    | 1.88 | 118    | 1.81 | 124    | 1.72 |
|   | 20   | 36                            | 2.49 | 52     | 2.41 | 66     | 2.31 | 77     | 2.15 | 88     | 2.05 | 97     | 1.94 | 104    | 1.81 | 114    | 1.77 | 121    | 1.69 | 128    | 1.63 |
|   | 30   | 46                            | 2.42 | 61     | 2.34 | 73     | 2.16 | 83     | 2.00 | 94     | 1.93 | 102    | 1.81 | 111    | 1.75 | 118    | 1.66 | 125    | 1.59 | 131    | 1.52 |
|   | 40   | 55                            | 2.26 | 68     | 2.11 | 79     | 1.96 | 90     | 1.88 | 99     | 1.78 | 108    | 1.71 | 116    | 1.64 | 123    | 1.57 | 129    | 1.49 | 135    | 1.43 |
|   | 50   | 64                            | 2.11 | 75     | 1.88 | 86     | 1.81 | 96     | 1.74 | 105    | 1.66 | 114    | 1.61 | 120    | 1.51 | 127    | 1.45 | 133    | 1.39 | 138    | 1.33 |
|   | 60   | 72                            | 1.81 | 82     | 1.66 | 92     | 1.61 | 102    | 1.58 | 110    | 1.51 | 118    | 1.46 | 125    | 1.40 | 131    | 1.34 | 136    | 1.27 | 141    | 1.22 |
|   | 70   | 81                            | 1.66 | 91     | 1.55 | 100    | 1.51 | 109    | 1.47 | 117    | 1.42 | 124    | 1.36 | 130    | 1.29 | 136    | 1.24 | 141    | 1.19 | 145    | 1.13 |
| 1800  | -40  | -17                           | 4.18 | 2      | 3.81 | 21     | 3.69 | 36     | 3.45 | 51     | 3.30 | 63     | 3.12 | 75     | 2.98 | 85     | 2.84 | 95     | 2.72 | 103    | 2.60 |
|   | -30  | -8                            | 4.00 | 11     | 3.72 | 28     | 3.51 | 43     | 3.31 | 56     | 3.12 | 68     | 2.97 | 80     | 2.85 | 90     | 2.72 | 98     | 2.58 | 106    | 2.47 |
|   | -20  | 0                             | 3.63 | 19     | 3.54 | 34     | 3.27 | 49     | 3.13 | 61     | 2.94 | 73     | 2.81 | 84     | 2.69 | 94     | 2.59 | 102    | 2.46 | 110    | 2.36 |
|   | -10  | 9                             | 3.45 | 26     | 3.27 | 41     | 3.08 | 55     | 2.95 | 67     | 2.79 | 78     | 2.66 | 89     | 2.57 | 98     | 2.45 | 106    | 2.34 | 113    | 2.23 |
|   | 0  | 19                            | 3.36 | 34     | 3.09 | 49     | 2.96 | 61     | 2.77 | 73     | 2.65 | 84     | 2.54 | 94     | 2.44 | 102    | 2.31 | 110    | 2.22 | 117    | 2.12 |
|   | 10   | 27                            | 3.09 | 42     | 2.90 | 56     | 2.78 | 68     | 2.63 | 79     | 2.50 | 89     | 2.39 | 98     | 2.28 | 106    | 2.18 | 114    | 2.10 | 120    | 2.00 |
|   | 20   | 36                            | 2.90 | 50     | 2.72 | 62     | 2.54 | 74     | 2.45 | 85     | 2.36 | 94     | 2.24 | 102    | 2.13 | 111    | 2.07 | 118    | 1.98 | 124    | 1.89 |
|   | 30   | 45                            | 2.72 | 58     | 2.54 | 70     | 2.42 | 82     | 2.36 | 91     | 2.21 | 100    | 2.12 | 108    | 2.02 | 115    | 1.93 | 122    | 1.86 | 128    | 1.78 |
|   | 40   | 54                            | 2.54 | 66     | 2.36 | 78     | 2.30 | 88     | 2.18 | 97     | 2.07 | 105    | 1.97 | 113    | 1.89 | 120    | 1.81 | 126    | 1.74 | 132    | 1.67 |
|   | 50   | 62                            | 2.45 | 74     | 2.18 | 85     | 2.12 | 94     | 2.00 | 102    | 1.89 | 110    | 1.82 | 118    | 1.76 | 124    | 1.68 | 130    | 1.61 | 135    | 1.54 |
|   | 60   | 72                            | 2.18 | 83     | 2.09 | 92     | 1.93 | 101    | 1.86 | 109    | 1.78 | 116    | 1.69 | 123    | 1.63 | 129    | 1.57 | 134    | 1.49 | 139    | 1.43 |
|   | 70   | 81                            | 2.00 | 91     | 1.86 | 100    | 1.81 | 108    | 1.72 | 115    | 1.63 | 122    | 1.57 | 128    | 1.50 | 134    | 1.45 | 139    | 1.39 | 143    | 1.32 |

\* Final temperature of air leaving heater.

† Condensation in pounds per square foot of heating surface per hour.

# Sturtevant Heaters—Return Bend Type

Final Temperatures and Condensations

Steam Pressure  
5 Pounds Gauge

Steam Temperature  
227° F.

| Velocity through Heater<br>in Feet per minute<br>at 65 Degrees F. | Temperature of<br>Entering Air<br>Degrees F. | Number of 4-Row Sections Deep |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
|---|--|-------------------------------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|
|   |  | 1                             |      | 2      |      | 3      |      | 4      |      | 5      |      | 6      |      | 7      |      | 8      |      | 9      |      | 10     |      |
|   |  | F. T.*                        | C.†  | F. T.* | C.†  | F. T.* | C.†  | F. T.* | C.†  | F. T.* | C.†  | F. T.* | C.†  | F. T.* | C.†  | F. T.* | C.†  | F. T.* | C.†  | F. T.* | C.†  |
| 600   | —40  | 2                             | 2.56 | 33     | 2.21 | 58     | 1.99 | 79     | 1.82 | 95     | 1.65 | 109    | 1.51 | 121    | 1.40 | 131    | 1.30 | 140    | 1.22 | 146    | 1.13 |
|   | —30  | 8                             | 2.32 | 37     | 2.04 | 61     | 1.85 | 82     | 1.71 | 98     | 1.56 | 111    | 1.43 | 123    | 1.33 | 132    | 1.24 | 141    | 1.16 | 149    | 1.09 |
|   | —20  | 16                            | 2.19 | 44     | 1.95 | 67     | 1.76 | 86     | 1.62 | 101    | 1.48 | 114    | 1.36 | 125    | 1.26 | 134    | 1.17 | 143    | 1.10 | 151    | 1.04 |
|   | —10  | 23                            | 2.01 | 49     | 1.80 | 72     | 1.66 | 90     | 1.52 | 105    | 1.40 | 117    | 1.29 | 127    | 1.19 | 136    | 1.11 | 145    | 1.05 | 152    | 0.99 |
|   | 0  | 31                            | 1.89 | 56     | 1.71 | 77     | 1.56 | 94     | 1.43 | 108    | 1.32 | 120    | 1.22 | 130    | 1.13 | 139    | 1.06 | 147    | 1.00 | 154    | 0.94 |
|   | 10   | 39                            | 1.77 | 63     | 1.62 | 83     | 1.48 | 99     | 1.36 | 112    | 1.24 | 123    | 1.15 | 133    | 1.07 | 141    | 1.00 | 149    | 0.94 | 156    | 0.89 |
|   | 20   | 47                            | 1.65 | 69     | 1.49 | 88     | 1.38 | 103    | 1.27 | 116    | 1.17 | 126    | 1.08 | 136    | 1.01 | 144    | 0.95 | 152    | 0.89 | 158    | 0.84 |
|   | 30   | 56                            | 1.59 | 77     | 1.43 | 94     | 1.30 | 108    | 1.19 | 120    | 1.10 | 130    | 1.02 | 139    | 0.95 | 147    | 0.89 | 154    | 0.84 | 160    | 0.79 |
|   | 40   | 64                            | 1.46 | 83     | 1.31 | 99     | 1.20 | 113    | 1.11 | 121    | 1.02 | 133    | 0.95 | 142    | 0.89 | 150    | 0.84 | 156    | 0.79 | 162    | 0.74 |
|   | 50   | 72                            | 1.34 | 90     | 1.22 | 105    | 1.12 | 117    | 1.02 | 128    | 0.95 | 137    | 0.88 | 145    | 0.83 | 152    | 0.78 | 159    | 0.74 | 164    | 0.70 |
|   | 60   | 80                            | 1.22 | 97     | 1.13 | 110    | 1.01 | 122    | 0.95 | 132    | 0.88 | 141    | 0.82 | 149    | 0.78 | 155    | 0.72 | 161    | 0.68 | 166    | 0.65 |
|   | 70   | 88                            | 1.10 | 103    | 1.01 | 116    | 0.93 | 125    | 0.84 | 136    | 0.80 | 145    | 0.76 | 152    | 0.71 | 158    | 0.67 | 164    | 0.64 | 168    | 0.60 |
| 800   | —10  | 0                             | 3.26 | 28     | 2.78 | 51     | 2.47 | 70     | 2.24 | 87     | 2.07 | 101    | 1.91 | 113    | 1.78 | 123    | 1.66 | 133    | 1.57 | 141    | 1.47 |
|   | —30  | 6                             | 2.93 | 33     | 2.70 | 56     | 2.33 | 74     | 2.12 | 90     | 1.96 | 104    | 1.82 | 115    | 1.69 | 125    | 1.58 | 134    | 1.48 | 142    | 1.40 |
|   | —20  | 13                            | 2.69 | 39     | 2.41 | 60     | 2.17 | 78     | 2.00 | 94     | 1.86 | 107    | 1.72 | 118    | 1.61 | 127    | 1.50 | 137    | 1.42 | 144    | 1.34 |
|   | —10  | 20                            | 2.44 | 45     | 2.25 | 65     | 2.03 | 83     | 1.89 | 97     | 1.74 | 110    | 1.63 | 120    | 1.51 | 130    | 1.43 | 139    | 1.35 | 146    | 1.27 |
|   | 0  | 28                            | 2.28 | 52     | 2.12 | 70     | 1.90 | 88     | 1.79 | 101    | 1.65 | 113    | 1.53 | 123    | 1.43 | 133    | 1.35 | 141    | 1.28 | 148    | 1.21 |
|   | 10   | 36                            | 2.12 | 58     | 1.96 | 77     | 1.82 | 92     | 1.67 | 106    | 1.56 | 117    | 1.45 | 126    | 1.35 | 136    | 1.28 | 144    | 1.21 | 150    | 1.14 |
|   | 20   | 45                            | 2.01 | 65     | 1.84 | 83     | 1.71 | 97     | 1.57 | 110    | 1.47 | 120    | 1.36 | 130    | 1.28 | 139    | 1.21 | 146    | 1.14 | 153    | 1.08 |
|   | 30   | 53                            | 1.87 | 72     | 1.71 | 88     | 1.57 | 102    | 1.46 | 114    | 1.37 | 124    | 1.28 | 133    | 1.20 | 142    | 1.14 | 149    | 1.08 | 155    | 1.02 |
|   | 40   | 61                            | 1.71 | 79     | 1.59 | 94     | 1.47 | 107    | 1.36 | 118    | 1.27 | 128    | 1.19 | 137    | 1.13 | 144    | 1.06 | 151    | 0.95 | 157    | 0.95 |
|   | 50   | 70                            | 1.63 | 86     | 1.47 | 100    | 1.36 | 113    | 1.28 | 122    | 1.17 | 132    | 1.11 | 141    | 1.06 | 148    | 0.99 | 154    | 0.94 | 160    | 0.90 |
|   | 60   | 78                            | 1.53 | 91     | 1.39 | 107    | 1.28 | 118    | 1.18 | 128    | 1.10 | 137    | 1.05 | 144    | 0.98 | 151    | 0.93 | 157    | 0.87 | 162    | 0.83 |
|   | 70   | 86                            | 1.30 | 100    | 1.22 | 113    | 1.17 | 122    | 1.06 | 132    | 1.01 | 141    | 0.96 | 148    | 0.91 | 154    | 0.85 | 160    | 0.81 | 165    | 0.77 |
| 1000  | —10  | —5                            | 3.59 | 23     | 3.23 | 45     | 2.90 | 64     | 2.67 | 81     | 2.48 | 96     | 2.33 | 107    | 2.15 | 118    | 2.02 | 127    | 1.91 | 136    | 1.80 |
|   | —30  | 3                             | 3.38 | 30     | 3.08 | 50     | 2.73 | 69     | 2.54 | 85     | 2.36 | 99     | 2.21 | 110    | 2.05 | 121    | 1.93 | 129    | 1.81 | 138    | 1.72 |
|   | —20  | 11                            | 3.18 | 35     | 2.82 | 55     | 2.56 | 73     | 2.38 | 89     | 2.23 | 102    | 2.09 | 113    | 1.95 | 123    | 1.83 | 131    | 1.72 | 140    | 1.64 |
|   | —10  | 19                            | 2.97 | 41     | 2.61 | 61     | 2.43 | 78     | 2.25 | 93     | 2.11 | 105    | 1.97 | 116    | 1.85 | 126    | 1.74 | 134    | 1.64 | 142    | 1.56 |
|   | 0  | 27                            | 2.77 | 48     | 2.46 | 67     | 2.29 | 84     | 2.15 | 97     | 1.99 | 109    | 1.86 | 120    | 1.76 | 128    | 1.64 | 137    | 1.56 | 145    | 1.49 |
|   | 10   | 35                            | 2.56 | 55     | 2.31 | 73     | 2.15 | 89     | 2.02 | 101    | 1.86 | 113    | 1.76 | 123    | 1.66 | 131    | 1.55 | 140    | 1.48 | 147    | 1.40 |
|   | 20   | 43                            | 2.36 | 62     | 2.15 | 79     | 2.02 | 96     | 1.95 | 106    | 1.76 | 117    | 1.66 | 126    | 1.55 | 135    | 1.47 | 143    | 1.40 | 149    | 1.32 |
|   | 30   | 51                            | 2.15 | 69     | 2.00 | 86     | 1.91 | 99     | 1.77 | 110    | 1.64 | 121    | 1.55 | 129    | 1.45 | 138    | 1.38 | 145    | 1.31 | 151    | 1.24 |
|   | 40   | 60                            | 2.05 | 77     | 1.90 | 92     | 1.78 | 105    | 1.67 | 116    | 1.56 | 125    | 1.45 | 134    | 1.38 | 142    | 1.30 | 148    | 1.23 | 154    | 1.17 |
|   | 50   | 69                            | 1.95 | 85     | 1.79 | 99     | 1.67 | 110    | 1.54 | 120    | 1.43 | 131    | 1.38 | 138    | 1.29 | 145    | 1.22 | 152    | 1.16 | 157    | 1.10 |
|   | 60   | 77                            | 1.74 | 92     | 1.64 | 105    | 1.54 | 116    | 1.43 | 125    | 1.33 | 134    | 1.26 | 142    | 1.20 | 148    | 1.13 | 154    | 1.07 | 160    | 1.02 |
|   | 70   | 86                            | 1.64 | 99     | 1.49 | 111    | 1.40 | 121    | 1.31 | 130    | 1.23 | 138    | 1.16 | 146    | 1.11 | 152    | 1.05 | 157    | 0.99 | 163    | 0.95 |

\* Final temperature of air leaving heater.

† Condensation in pounds per square foot of heating surface per hour.

# Sturtevant Heaters—Return Bend Type

Final Temperatures and Condensations

Steam Pressure  
5 Pounds Gauge

Steam Temperature  
227° F.

| Velocity through Heaters<br>in Feet per minute<br>at 65 Degrees F. | Temperature of<br>Entering Air<br>Degrees F. | Number of 4-Row Sections Deep |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
|--|--|-------------------------------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|
|  |  | 1                             |      | 2      |      | 3      |      | 4      |      | 5      |      | 6      |      | 7      |      | 8      |      | 9      |      | 10     |      |
|  |  | F. T.*                        | C.†  | F. T.* | C.†  | F. T.* | C.†  | F. T.* | C.†  | F. T.* | C.†  | F. T.* | C.†  | F. T.* | C.†  | F. T.* | C.†  | F. T.* | C.†  | F. T.* | C.†  |
| 1200   | -40  | -9                            | 3.79 | 16     | 3.41 | 38     | 3.17 | 57     | 2.96 | 73     | 2.76 | 87     | 2.58 | 100    | 2.41 | 111    | 2.31 | 120    | 2.17 | 130    | 2.07 |
|  | -30  | -1                            | 3.54 | 24     | 3.29 | 44     | 3.01 | 62     | 2.81 | 77     | 2.61 | 91     | 2.46 | 104    | 2.34 | 114    | 2.20 | 123    | 2.07 | 132    | 1.98 |
|  | -20  | 7                             | 3.30 | 30     | 3.05 | 50     | 2.85 | 67     | 2.65 | 81     | 2.46 | 95     | 2.31 | 107    | 2.21 | 117    | 2.09 | 126    | 1.98 | 134    | 1.88 |
|  | -10  | 15                            | 3.05 | 37     | 2.86 | 56     | 2.68 | 72     | 2.50 | 86     | 2.34 | 100    | 2.24 | 110    | 2.10 | 120    | 1.98 | 129    | 1.89 | 137    | 1.79 |
|  | 0  | 24                            | 2.93 | 45     | 2.74 | 62     | 2.52 | 78     | 2.38 | 92     | 2.25 | 104    | 2.12 | 114    | 1.99 | 124    | 1.89 | 132    | 1.79 | 140    | 1.71 |
|  | 10   | 33                            | 2.81 | 52     | 2.56 | 69     | 2.40 | 83     | 2.23 | 96     | 2.10 | 108    | 1.99 | 118    | 1.88 | 127    | 1.78 | 136    | 1.70 | 143    | 1.62 |
|  | 20   | 41                            | 2.57 | 60     | 2.44 | 75     | 2.24 | 88     | 2.07 | 102    | 2.00 | 112    | 1.87 | 122    | 1.78 | 131    | 1.69 | 138    | 1.60 | 145    | 1.52 |
|  | 30   | 50                            | 2.44 | 67     | 2.26 | 81     | 2.07 | 95     | 1.98 | 107    | 1.88 | 117    | 1.77 | 126    | 1.67 | 134    | 1.59 | 142    | 1.52 | 148    | 1.44 |
|  | 40   | 58                            | 2.20 | 71     | 2.01 | 88     | 1.95 | 102    | 1.89 | 112    | 1.76 | 121    | 1.65 | 130    | 1.57 | 138    | 1.49 | 145    | 1.42 | 151    | 1.35 |
|  | 50   | 67                            | 2.07 | 81     | 1.89 | 95     | 1.83 | 107    | 1.74 | 117    | 1.68 | 126    | 1.51 | 134    | 1.46 | 142    | 1.40 | 148    | 1.33 | 154    | 1.27 |
|  | 60   | 75                            | 1.83 | 89     | 1.77 | 102    | 1.71 | 112    | 1.59 | 122    | 1.51 | 131    | 1.44 | 139    | 1.38 | 145    | 1.29 | 152    | 1.25 | 157    | 1.18 |
|  | 70   | 84                            | 1.71 | 97     | 1.65 | 109    | 1.58 | 118    | 1.46 | 128    | 1.41 | 136    | 1.34 | 143    | 1.27 | 149    | 1.20 | 155    | 1.15 | 160    | 1.10 |
| 1500   | -40  | -12                           | 4.27 | 12     | 3.96 | 32     | 3.66 | 49     | 3.39 | 64     | 3.17 | 78     | 3.00 | 91     | 2.85 | 101    | 2.69 | 110    | 2.54 | 119    | 2.43 |
|  | -30  | -4                            | 3.96 | 19     | 3.74 | 37     | 3.41 | 54     | 3.20 | 69     | 3.02 | 82     | 2.85 | 95     | 2.72 | 104    | 2.50 | 114    | 2.44 | 123    | 2.33 |
|  | -20  | 5                             | 3.81 | 25     | 3.43 | 43     | 3.20 | 59     | 3.01 | 73     | 2.83 | 87     | 2.72 | 98     | 2.57 | 108    | 2.41 | 117    | 2.32 | 126    | 2.23 |
|  | -10  | 13                            | 3.50 | 33     | 2.28 | 50     | 3.05 | 65     | 2.86 | 79     | 2.71 | 91     | 2.57 | 102    | 2.44 | 111    | 2.31 | 121    | 2.22 | 129    | 2.12 |
|  | 0  | 21                            | 3.20 | 40     | 3.05 | 56     | 2.85 | 71     | 2.70 | 84     | 2.56 | 96     | 2.41 | 106    | 2.31 | 115    | 2.19 | 124    | 2.10 | 132    | 2.01 |
|  | 10   | 30                            | 3.05 | 47     | 2.82 | 63     | 2.70 | 77     | 2.56 | 90     | 2.44 | 101    | 2.31 | 110    | 2.18 | 119    | 2.08 | 128    | 2.00 | 136    | 1.92 |
|  | 20   | 39                            | 2.90 | 55     | 2.67 | 69     | 2.49 | 83     | 2.40 | 96     | 2.32 | 105    | 2.16 | 115    | 2.07 | 123    | 1.96 | 131    | 1.88 | 139    | 1.81 |
|  | 30   | 47                            | 2.59 | 63     | 2.52 | 77     | 2.39 | 90     | 2.29 | 101    | 2.16 | 110    | 2.03 | 119    | 1.91 | 128    | 1.87 | 135    | 1.78 | 142    | 1.71 |
|  | 40   | 56                            | 2.44 | 71     | 2.36 | 84     | 2.24 | 96     | 2.14 | 106    | 2.01 | 116    | 1.93 | 125    | 1.85 | 133    | 1.77 | 140    | 1.69 | 146    | 1.62 |
|  | 50   | 65                            | 2.29 | 79     | 2.21 | 92     | 2.14 | 102    | 1.98 | 111    | 1.86 | 121    | 1.80 | 129    | 1.72 | 137    | 1.64 | 143    | 1.57 | 149    | 1.51 |
|  | 60   | 74                            | 2.13 | 87     | 2.06 | 99     | 1.98 | 108    | 1.83 | 117    | 1.74 | 126    | 1.68 | 134    | 1.61 | 141    | 1.54 | 147    | 1.49 | 153    | 1.42 |
|  | 70   | 84                            | 2.06 | 96     | 1.98 | 106    | 1.83 | 115    | 1.71 | 124    | 1.65 | 132    | 1.57 | 139    | 1.50 | 145    | 1.43 | 154    | 1.37 | 157    | 1.33 |
| 1800   | -40  | -14                           | 4.76 | 8      | 4.39 | 27     | 4.09 | 44     | 3.84 | 59     | 3.62 | 73     | 3.45 | 85     | 3.27 | 96     | 3.11 | 106    | 2.96 | 115    | 2.84 |
|  | -30  | -6                            | 4.39 | 15     | 4.12 | 33     | 3.84 | 50     | 3.66 | 64     | 3.44 | 77     | 3.26 | 90     | 3.14 | 100    | 2.98 | 109    | 2.82 | 118    | 2.71 |
|  | -20  | 3                             | 4.21 | 22     | 3.84 | 40     | 3.66 | 56     | 3.48 | 69     | 3.26 | 82     | 3.11 | 96     | 3.03 | 104    | 2.84 | 113    | 2.70 | 121    | 2.58 |
|  | -10  | 11                            | 3.84 | 30     | 3.66 | 47     | 3.48 | 61     | 3.25 | 75     | 3.11 | 88     | 2.99 | 98     | 2.82 | 108    | 2.70 | 116    | 2.56 | 124    | 2.45 |
|  | 0  | 20                            | 3.66 | 37     | 3.38 | 54     | 3.29 | 67     | 3.07 | 80     | 2.93 | 92     | 2.81 | 102    | 2.67 | 112    | 2.56 | 120    | 2.44 | 128    | 2.34 |
|  | 10   | 28                            | 3.29 | 46     | 3.25 | 61     | 3.11 | 74     | 2.93 | 87     | 2.82 | 97     | 2.65 | 107    | 2.54 | 116    | 2.43 | 124    | 2.32 | 131    | 2.22 |
|  | 20   | 37                            | 3.11 | 54     | 3.06 | 67     | 2.87 | 80     | 2.75 | 92     | 2.64 | 102    | 2.50 | 112    | 2.40 | 120    | 2.29 | 128    | 2.19 | 135    | 2.10 |
|  | 30   | 46                            | 2.93 | 61     | 2.84 | 75     | 2.74 | 88     | 2.65 | 98     | 2.49 | 108    | 2.38 | 116    | 2.25 | 124    | 2.15 | 132    | 2.07 | 138    | 1.98 |
|  | 40   | 55                            | 2.75 | 69     | 2.65 | 82     | 2.56 | 94     | 2.47 | 104    | 2.34 | 113    | 2.23 | 121    | 2.12 | 129    | 2.04 | 136    | 1.95 | 142    | 1.87 |
|  | 50   | 64                            | 2.56 | 77     | 2.47 | 90     | 2.44 | 100    | 2.29 | 109    | 2.16 | 118    | 2.07 | 126    | 1.99 | 133    | 1.90 | 139    | 1.81 | 145    | 1.74 |
|  | 60   | 73                            | 2.38 | 86     | 2.33 | 97     | 2.26 | 106    | 2.10 | 115    | 2.01 | 124    | 1.95 | 131    | 1.86 | 138    | 1.78 | 144    | 1.71 | 149    | 1.63 |
|  | 70   | 82                            | 2.29 | 95     | 2.24 | 104    | 2.07 | 113    | 1.97 | 122    | 1.90 | 129    | 1.80 | 136    | 1.72 | 142    | 1.65 | 148    | 1.59 | 153    | 1.52 |

\* Final temperature of air leaving heater.

† Condensation in pounds per square foot of heating surface per hour.



# Sturtevant Heaters—Return Bend Type

## Final Temperatures and Condensations

Steam Pressure  
10 Pounds Gauge

Steam Temperature  
240° F.

| Velocity through Heater<br>in Feet per minute<br>at 65 Degrees F. | Temperature of<br>Entering Air<br>Degrees F. | Number of 4-Row Sections Deep |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |
|---|--|-------------------------------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|
|   |  | 1                             |      | 2     |      | 3     |      | 4     |      | 5     |      | 6     |      | 7     |      | 8     |      | 9     |      | 10    |      |
|   |  | F.T.*                         | C.†  | F.T.* | C.†  | F.T.* | C.†  | F.T.* | C.†  | F.T.* | C.†  | F.T.* | C.†  | F.T.* | C.†  | F.T.* | C.†  | F.T.* | C.†  | F.T.* | C.†  |
| 600   | -40  | 8                             | 2.97 | 40    | 2.47 | 65    | 2.17 | 86    | 1.95 | 104   | 1.79 | 118   | 1.63 | 130   | 1.50 | 141   | 1.40 | 150   | 1.31 | 158   | 1.2  |
|   | -30  | 15                            | 2.85 | 45    | 2.32 | 69    | 2.04 | 90    | 1.86 | 107   | 1.70 | 120   | 1.55 | 132   | 1.43 | 142   | 1.33 | 151   | 1.25 | 159   | 1.1  |
|   | -20  | 21                            | 2.54 | 49    | 2.13 | 73    | 1.92 | 93    | 1.75 | 110   | 1.61 | 123   | 1.47 | 134   | 1.36 | 144   | 1.27 | 153   | 1.19 | 160   | 1.1  |
|   | -10  | 27                            | 2.20 | 55    | 2.01 | 77    | 1.80 | 96    | 1.64 | 112   | 1.51 | 125   | 1.39 | 136   | 1.29 | 146   | 1.21 | 154   | 1.13 | 162   | 1.0  |
|   | 0  | 31                            | 2.10 | 60    | 1.86 | 82    | 1.69 | 101   | 1.56 | 116   | 1.44 | 128   | 1.32 | 139   | 1.23 | 148   | 1.15 | 156   | 1.07 | 164   | 1.01 |
|   | 10   | 41                            | 1.92 | 66    | 1.73 | 87    | 1.59 | 104   | 1.46 | 119   | 1.35 | 131   | 1.25 | 141   | 1.16 | 150   | 1.08 | 158   | 1.02 | 165   | 0.9  |
|   | 20   | 49                            | 1.79 | 72    | 1.61 | 92    | 1.49 | 109   | 1.38 | 122   | 1.26 | 134   | 1.17 | 144   | 1.10 | 152   | 1.02 | 160   | 0.96 | 167   | 0.91 |
|   | 30   | 57                            | 1.67 | 80    | 1.55 | 98    | 1.40 | 114   | 1.30 | 126   | 1.19 | 138   | 1.11 | 147   | 1.04 | 155   | 0.97 | 162   | 0.91 | 169   | 0.86 |
|   | 40   | 65                            | 1.55 | 86    | 1.42 | 104   | 1.32 | 118   | 1.21 | 130   | 1.12 | 141   | 1.04 | 150   | 0.97 | 158   | 0.91 | 165   | 0.86 | 171   | 0.81 |
|   | 50   | 74                            | 1.48 | 93    | 1.33 | 110   | 1.24 | 123   | 1.13 | 134   | 1.04 | 144   | 0.97 | 153   | 0.91 | 161   | 0.86 | 168   | 0.81 | 173   | 0.76 |
|   | 60   | 82                            | 1.36 | 100   | 1.21 | 116   | 1.16 | 128   | 1.05 | 139   | 0.98 | 148   | 0.91 | 156   | 0.85 | 164   | 0.81 | 170   | 0.76 | 176   | 0.72 |
|   | 70   | 90                            | 1.24 | 107   | 1.14 | 121   | 1.05 | 132   | 0.96 | 143   | 0.91 | 152   | 0.84 | 159   | 0.79 | 166   | 0.74 | 172   | 0.70 | 178   | 0.67 |
| 800   | -40  | 1                             | 3.38 | 32    | 2.97 | 57    | 2.67 | 78    | 2.43 | 96    | 2.24 | 110   | 2.06 | 122   | 1.91 | 133   | 1.78 | 143   | 1.68 | 152   | 1.58 |
|   | -30  | 8                             | 3.13 | 37    | 2.76 | 61    | 2.50 | 82    | 2.31 | 99    | 2.13 | 112   | 1.95 | 124   | 1.82 | 135   | 1.70 | 144   | 1.59 | 153   | 1.51 |
|   | -20  | 16                            | 2.97 | 42    | 2.56 | 67    | 2.39 | 86    | 2.18 | 102   | 2.01 | 116   | 1.87 | 127   | 1.74 | 138   | 1.63 | 147   | 1.53 | 155   | 1.44 |
|   | -10  | 23                            | 2.72 | 49    | 2.43 | 72    | 2.25 | 90    | 2.06 | 105   | 1.90 | 118   | 1.76 | 130   | 1.65 | 140   | 1.54 | 149   | 1.46 | 157   | 1.38 |
|   | 0  | 31                            | 2.56 | 56    | 2.31 | 77    | 2.12 | 95    | 1.96 | 109   | 1.80 | 122   | 1.68 | 132   | 1.56 | 142   | 1.46 | 151   | 1.38 | 159   | 1.31 |
|   | 10   | 39                            | 2.39 | 62    | 2.14 | 83    | 2.01 | 99    | 1.83 | 113   | 1.70 | 125   | 1.58 | 136   | 1.49 | 145   | 1.39 | 154   | 1.32 | 161   | 1.24 |
|   | 20   | 47                            | 2.22 | 70    | 2.06 | 89    | 1.90 | 104   | 1.73 | 117   | 1.60 | 128   | 1.49 | 139   | 1.41 | 148   | 1.32 | 156   | 1.25 | 163   | 1.18 |
|   | 30   | 55                            | 2.06 | 77    | 1.94 | 94    | 1.76 | 109   | 1.63 | 121   | 1.50 | 132   | 1.40 | 142   | 1.32 | 151   | 1.25 | 159   | 1.18 | 166   | 1.12 |
|   | 40   | 64                            | 1.98 | 84    | 1.81 | 100   | 1.65 | 114   | 1.52 | 125   | 1.40 | 136   | 1.32 | 146   | 1.25 | 154   | 1.17 | 161   | 1.11 | 168   | 1.06 |
|   | 50   | 72                            | 1.81 | 91    | 1.69 | 106   | 1.54 | 119   | 1.42 | 130   | 1.32 | 140   | 1.24 | 149   | 1.17 | 157   | 1.10 | 164   | 1.04 | 170   | 0.99 |
|   | 60   | 81                            | 1.73 | 98    | 1.57 | 112   | 1.43 | 123   | 1.30 | 134   | 1.22 | 144   | 1.16 | 153   | 1.10 | 160   | 1.03 | 166   | 0.97 | 172   | 0.92 |
|   | 70   | 89                            | 1.57 | 104   | 1.40 | 117   | 1.29 | 128   | 1.19 | 139   | 1.14 | 148   | 1.07 | 156   | 1.01 | 163   | 0.96 | 169   | 0.91 | 175   | 0.87 |
| 1000  | -40  | -3                            | 3.81 | 26    | 3.40 | 51    | 3.13 | 72    | 2.88 | 89    | 2.66 | 104   | 2.47 | 116   | 2.30 | 127   | 2.15 | 138   | 2.04 | 146   | 1.92 |
|   | -30  | 5                             | 3.60 | 33    | 3.24 | 57    | 2.99 | 76    | 2.73 | 93    | 2.53 | 107   | 2.35 | 119   | 2.19 | 130   | 2.06 | 140   | 1.95 | 148   | 1.83 |
|   | -20  | 12                            | 3.30 | 39    | 3.04 | 62    | 2.82 | 81    | 2.60 | 97    | 2.41 | 110   | 2.23 | 122   | 2.09 | 133   | 1.97 | 142   | 1.85 | 151   | 1.76 |
|   | -10  | 21                            | 3.19 | 46    | 2.88 | 68    | 2.68 | 86    | 2.47 | 101   | 2.29 | 114   | 2.13 | 125   | 1.99 | 136   | 1.88 | 145   | 1.77 | 153   | 1.68 |
|   | 0  | 29                            | 2.99 | 53    | 2.73 | 74    | 2.54 | 91    | 2.34 | 105   | 2.16 | 118   | 2.02 | 128   | 1.89 | 139   | 1.79 | 147   | 1.68 | 156   | 1.61 |
|   | 10   | 37                            | 2.78 | 60    | 2.57 | 80    | 2.40 | 96    | 2.21 | 110   | 2.06 | 121   | 1.90 | 132   | 1.80 | 141   | 1.69 | 150   | 1.60 | 158   | 1.52 |
|   | 20   | 46                            | 2.68 | 67    | 2.42 | 86    | 2.27 | 101   | 2.09 | 114   | 1.94 | 125   | 1.80 | 136   | 1.71 | 144   | 1.60 | 153   | 1.52 | 160   | 1.44 |
|   | 30   | 54                            | 2.47 | 74    | 2.26 | 92    | 2.13 | 106   | 1.96 | 118   | 1.81 | 129   | 1.70 | 139   | 1.60 | 148   | 1.52 | 156   | 1.44 | 162   | 1.36 |
|   | 40   | 63                            | 2.37 | 82    | 2.16 | 98    | 1.99 | 111   | 1.83 | 122   | 1.69 | 133   | 1.60 | 142   | 1.50 | 151   | 1.43 | 159   | 1.36 | 165   | 1.29 |
|   | 50   | 71                            | 2.16 | 88    | 1.95 | 103   | 1.82 | 116   | 1.70 | 127   | 1.59 | 137   | 1.49 | 146   | 1.41 | 154   | 1.34 | 161   | 1.27 | 167   | 1.20 |
|   | 60   | 80                            | 2.06 | 96    | 1.85 | 110   | 1.72 | 121   | 1.57 | 132   | 1.48 | 141   | 1.39 | 150   | 1.33 | 158   | 1.26 | 166   | 1.19 | 170   | 1.13 |
|   | 70   | 88                            | 1.85 | 102   | 1.65 | 115   | 1.51 | 126   | 1.41 | 137   | 1.38 | 146   | 1.30 | 154   | 1.24 | 161   | 1.17 | 169   | 1.11 | 172   | 1.05 |

\* Final temperature of air leaving heater.

† Condensation in pounds per square foot of heating surface per hour.

# Sturtevant Heaters—Return Bend Type

Final Temperatures and Condensations

Steam Pressure  
10 Pounds Gauge

Steam Temperature  
240° F.

| Velocity through Heater<br>in Feet per minute<br>at 65 Degrees F. | Temperature of<br>Entering Air<br>Degrees F. | Number of 4-Row Sections Deep |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
|---|--|-------------------------------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|
|   |  | 1                             |      | 2      |      | 3      |      | 4      |      | 5      |      | 6      |      | 7      |      | 8      |      | 9      |      | 10     |      |
|   |  | F. T.*                        | C.†  | F. T.* | C.†  | F. T.* | C.†  | F. T.* | C.†  | F. T.* | C.†  | F. T.* | C.†  | F. T.* | C.†  | F. T.* | C.†  | F. T.* | C.†  | F. T.* | C.†  |
|   |  |                               |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
| 1200  | -40  | -6                            | 4.20 | 21     | 3.78 | 44     | 3.46 | 63     | 3.18 | 81     | 2.99 | 95     | 2.78 | 108    | 2.62 | 120    | 2.48 | 130    | 2.34 | 139    | 2.21 |
|   | -30  | 1                             | 3.83 | 28     | 3.59 | 50     | 3.30 | 69     | 3.06 | 85     | 2.84 | 99     | 2.66 | 112    | 2.51 | 122    | 2.35 | 132    | 2.23 | 141    | 2.11 |
|   | -20  | 10                            | 3.71 | 35     | 3.41 | 56     | 3.13 | 74     | 2.90 | 90     | 2.72 | 103    | 2.53 | 115    | 2.39 | 125    | 2.24 | 135    | 2.13 | 144    | 2.03 |
|   | -10  | 18                            | 3.46 | 42     | 3.22 | 62     | 2.97 | 79     | 2.75 | 94     | 2.57 | 107    | 2.41 | 119    | 2.28 | 129    | 2.15 | 138    | 2.04 | 147    | 1.94 |
|   | 0  | 26                            | 3.21 | 49     | 3.03 | 68     | 2.80 | 84     | 2.60 | 98     | 2.42 | 111    | 2.29 | 122    | 2.16 | 132    | 2.04 | 141    | 1.94 | 149    | 1.84 |
|   | 10   | 35                            | 3.09 | 56     | 2.85 | 74     | 2.64 | 90     | 2.47 | 103    | 2.30 | 115    | 2.16 | 125    | 2.04 | 135    | 1.93 | 144    | 1.84 | 152    | 1.76 |
|   | 20   | 44                            | 2.97 | 63     | 2.66 | 80     | 2.47 | 95     | 2.32 | 108    | 2.17 | 119    | 2.04 | 129    | 1.93 | 138    | 1.83 | 147    | 1.75 | 155    | 1.67 |
|   | 30   | 52                            | 2.72 | 70     | 2.48 | 86     | 2.31 | 100    | 2.16 | 113    | 2.05 | 123    | 1.92 | 133    | 1.82 | 142    | 1.73 | 150    | 1.65 | 157    | 1.57 |
|   | 40   | 60                            | 2.47 | 78     | 2.35 | 93     | 2.18 | 106    | 2.04 | 118    | 1.93 | 128    | 1.81 | 137    | 1.72 | 146    | 1.64 | 153    | 1.55 | 160    | 1.48 |
|   | 50   | 69                            | 2.35 | 86     | 2.23 | 99     | 2.02 | 112    | 1.92 | 122    | 1.78 | 132    | 1.69 | 142    | 1.63 | 150    | 1.55 | 157    | 1.47 | 163    | 1.40 |
|   | 60   | 78                            | 2.22 | 93     | 2.04 | 106    | 1.90 | 118    | 1.79 | 128    | 1.68 | 137    | 1.59 | 146    | 1.52 | 153    | 1.44 | 160    | 1.37 | 166    | 1.31 |
|   | 70   | 86                            | 1.98 | 100    | 1.86 | 112    | 1.73 | 123    | 1.64 | 133    | 1.56 | 142    | 1.48 | 150    | 1.41 | 157    | 1.35 | 163    | 1.28 | 169    | 1.22 |
| 1500  | -40  | -11                           | 4.48 | 15     | 4.25 | 36     | 3.91 | 55     | 3.67 | 72     | 3.46 | 86     | 3.24 | 99     | 3.07 | 111    | 2.92 | 121    | 2.77 | 130    | 2.63 |
|   | -30  | -2                            | 4.32 | 22     | 4.02 | 42     | 3.71 | 60     | 3.48 | 77     | 3.31 | 91     | 3.12 | 103    | 2.94 | 114    | 2.78 | 124    | 2.65 | 134    | 2.53 |
|   | -20  | 6                             | 4.02 | 29     | 3.79 | 48     | 3.50 | 66     | 3.32 | 82     | 3.15 | 95     | 2.96 | 107    | 2.81 | 118    | 2.66 | 127    | 2.52 | 136    | 2.41 |
|   | -10  | 15                            | 3.86 | 36     | 3.55 | 55     | 3.35 | 72     | 3.17 | 87     | 3.00 | 100    | 2.83 | 111    | 2.67 | 121    | 2.53 | 131    | 2.42 | 140    | 2.32 |
|   | 0  | 24                            | 3.71 | 44     | 3.40 | 62     | 3.19 | 78     | 3.01 | 92     | 2.84 | 104    | 2.68 | 115    | 2.54 | 124    | 2.39 | 134    | 2.30 | 142    | 2.19 |
|   | 10   | 32                            | 3.40 | 51     | 3.17 | 68     | 2.99 | 84     | 2.86 | 97     | 2.69 | 108    | 2.53 | 119    | 2.41 | 128    | 2.28 | 138    | 2.20 | 145    | 2.09 |
|   | 20   | 40                            | 3.09 | 58     | 2.93 | 75     | 2.83 | 89     | 2.67 | 102    | 2.53 | 113    | 2.40 | 123    | 2.27 | 132    | 2.16 | 141    | 2.08 | 148    | 1.98 |
|   | 30   | 49                            | 2.93 | 67     | 2.86 | 82     | 2.68 | 96     | 2.55 | 107    | 2.38 | 118    | 2.27 | 128    | 2.16 | 137    | 2.07 | 144    | 1.96 | 151    | 1.87 |
|   | 40   | 58                            | 2.78 | 75     | 2.70 | 89     | 2.52 | 102    | 2.40 | 113    | 2.25 | 123    | 2.14 | 132    | 2.03 | 141    | 1.95 | 148    | 1.85 | 154    | 1.76 |
|   | 50   | 67                            | 2.63 | 82     | 2.47 | 96     | 2.37 | 108    | 2.24 | 118    | 2.10 | 128    | 2.01 | 137    | 1.92 | 145    | 1.84 | 151    | 1.73 | 158    | 1.67 |
|   | 60   | 76                            | 2.47 | 90     | 2.32 | 102    | 2.16 | 114    | 2.08 | 124    | 1.98 | 133    | 1.88 | 141    | 1.79 | 148    | 1.70 | 155    | 1.63 | 161    | 1.56 |
|   | 70   | 85                            | 2.32 | 98     | 2.16 | 110    | 2.06 | 120    | 1.93 | 130    | 1.85 | 138    | 1.75 | 146    | 1.68 | 152    | 1.58 | 158    | 1.51 | 164    | 1.45 |
| 1800  | -40  | -13                           | 5.01 | 10     | 4.63 | 30     | 4.32 | 49     | 4.13 | 66     | 3.93 | 80     | 3.71 | 93     | 3.52 | 104    | 3.34 | 115    | 3.19 | 124    | 3.04 |
|   | -30  | -4                            | 4.82 | 18     | 4.45 | 37     | 4.14 | 55     | 3.94 | 71     | 3.75 | 85     | 3.56 | 98     | 3.39 | 108    | 3.20 | 118    | 3.05 | 128    | 2.93 |
|   | -20  | 4                             | 4.45 | 25     | 4.17 | 44     | 3.95 | 61     | 3.76 | 77     | 3.60 | 90     | 3.40 | 101    | 3.21 | 112    | 3.06 | 122    | 2.92 | 131    | 2.80 |
|   | -10  | 13                            | 4.27 | 33     | 3.99 | 51     | 3.77 | 68     | 3.62 | 83     | 3.45 | 95     | 3.25 | 106    | 3.07 | 116    | 2.92 | 125    | 2.78 | 134    | 2.67 |
|   | 0  | 22                            | 4.08 | 41     | 3.80 | 58     | 3.58 | 74     | 3.43 | 88     | 3.26 | 100    | 3.09 | 110    | 2.91 | 120    | 2.79 | 129    | 2.66 | 137    | 2.54 |
|   | 10   | 30                            | 3.71 | 49     | 3.62 | 66     | 3.46 | 80     | 3.24 | 93     | 3.08 | 104    | 2.90 | 115    | 2.78 | 124    | 2.65 | 133    | 2.53 | 140    | 2.41 |
|   | 20   | 39                            | 3.52 | 57     | 3.43 | 73     | 3.28 | 87     | 3.11 | 99     | 2.93 | 110    | 2.78 | 120    | 2.65 | 128    | 2.51 | 136    | 2.39 | 143    | 2.28 |
|   | 30   | 48                            | 3.34 | 65     | 3.24 | 80     | 3.09 | 93     | 2.92 | 104    | 2.75 | 115    | 2.63 | 124    | 2.49 | 133    | 2.39 | 140    | 2.26 | 147    | 2.17 |
|   | 40   | 57                            | 3.20 | 74     | 3.15 | 87     | 2.90 | 99     | 2.74 | 110    | 2.60 | 120    | 2.47 | 129    | 2.36 | 137    | 2.25 | 144    | 2.14 | 150    | 2.04 |
|   | 50   | 66                            | 2.97 | 81     | 2.88 | 94     | 2.72 | 105    | 2.55 | 116    | 2.45 | 125    | 2.32 | 133    | 2.20 | 141    | 2.11 | 147    | 2.00 | 153    | 1.91 |
|   | 60   | 75                            | 2.78 | 89     | 2.69 | 101    | 2.54 | 112    | 2.41 | 121    | 2.26 | 130    | 2.16 | 138    | 2.07 | 144    | 1.95 | 151    | 1.87 | 157    | 1.80 |
|   | 70   | 84                            | 2.60 | 96     | 2.41 | 107    | 2.29 | 118    | 2.23 | 126    | 2.08 | 135    | 2.01 | 142    | 1.91 | 148    | 1.81 | 154    | 1.73 | 160    | 1.67 |

\* Final temperature of air leaving heater.

† Condensation in pounds per square foot of heating surface per hour.

# Sturtevant Heaters—Return Bend Type

## Final Temperatures and Condensations

Steam Pressure  
20 Pounds Gauge

Steam Temperature  
259° F.

| Velocity through Heater<br>in Feet per minute<br>at 68 Degrees F. | Temperature of<br>Entering Air<br>Degrees F. | Number of 4-Row Sections Deep |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
|---|--|-------------------------------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|
|   |  | 1                             |      | 2      |      | 3      |      | 4      |      | 5      |      | 6      |      | 7      |      | 8      |      | 9      |      | 10     |      |
|   |  | F. T.*                        | C.†  | F. T.* | C.†  | F. T.* | C.†  | F. T.* | C.†  | F. T.* | C.†  | F. T.* | C.†  | F. T.* | C.†  | F. T.* | C.†  | F. T.* | C.†  | F. T.* | C.†  |
| 600   | —40  | 14                            | 3.38 | 48     | 2.76 | 75     | 2.41 | 98     | 2.16 | 117    | 1.97 | 133    | 1.81 | 145    | 1.66 | 156    | 1.53 | 165    | 1.43 | 173    | 1.34 |
|   | —30  | 20                            | 3.13 | 53     | 2.60 | 79     | 2.28 | 101    | 2.05 | 120    | 1.88 | 135    | 1.72 | 147    | 1.58 | 158    | 1.47 | 166    | 1.37 | 175    | 1.28 |
|   | —20  | 26                            | 2.88 | 57     | 2.41 | 82     | 2.13 | 104    | 1.94 | 122    | 1.78 | 137    | 1.64 | 149    | 1.51 | 159    | 1.40 | 168    | 1.31 | 176    | 1.23 |
|   | —10  | 32                            | 2.63 | 62     | 2.26 | 87     | 2.03 | 108    | 1.85 | 125    | 1.69 | 139    | 1.56 | 151    | 1.44 | 160    | 1.33 | 169    | 1.25 | 178    | 1.18 |
|   | 0  | 39                            | 2.44 | 67     | 2.10 | 91     | 1.90 | 111    | 1.74 | 128    | 1.60 | 141    | 1.47 | 153    | 1.37 | 162    | 1.27 | 171    | 1.19 | 179    | 1.12 |
|   | 10   | 45                            | 2.19 | 73     | 1.97 | 96     | 1.80 | 116    | 1.66 | 131    | 1.52 | 144    | 1.40 | 155    | 1.30 | 164    | 1.20 | 173    | 1.13 | 181    | 1.07 |
|   | 20   | 53                            | 2.07 | 79     | 1.85 | 101    | 1.69 | 120    | 1.57 | 135    | 1.44 | 147    | 1.33 | 158    | 1.24 | 166    | 1.14 | 175    | 1.08 | 182    | 1.02 |
|   | 30   | 60                            | 1.88 | 85     | 1.72 | 107    | 1.61 | 124    | 1.47 | 138    | 1.35 | 150    | 1.25 | 160    | 1.16 | 169    | 1.09 | 177    | 1.02 | 184    | 0.97 |
|   | 40   | 68                            | 1.75 | 92     | 1.63 | 112    | 1.50 | 129    | 1.40 | 142    | 1.28 | 153    | 1.18 | 163    | 1.10 | 171    | 1.02 | 180    | 0.98 | 186    | 0.92 |
|   | 50   | 76                            | 1.63 | 99     | 1.53 | 118    | 1.42 | 133    | 1.30 | 146    | 1.20 | 156    | 1.11 | 166    | 1.04 | 174    | 0.97 | 182    | 0.92 | 188    | 0.87 |
|   | 60   | 85                            | 1.57 | 107    | 1.47 | 124    | 1.34 | 138    | 1.22 | 150    | 1.13 | 160    | 1.04 | 169    | 0.98 | 177    | 0.92 | 184    | 0.87 | 190    | 0.82 |
|   | 70   | 94                            | 1.50 | 114    | 1.38 | 130    | 1.25 | 143    | 1.15 | 154    | 1.06 | 163    | 0.97 | 172    | 0.91 | 180    | 0.86 | 187    | 0.82 | 192    | 0.77 |
| 800   | —40  | 8                             | 4.01 | 41     | 3.38 | 67     | 2.98 | 90     | 2.72 | 109    | 2.49 | 124    | 2.29 | 138    | 2.13 | 149    | 1.97 | 158    | 1.84 | 167    | 1.73 |
|   | —30  | 15                            | 3.76 | 46     | 3.18 | 72     | 2.84 | 93     | 2.57 | 112    | 2.37 | 127    | 2.19 | 140    | 2.03 | 151    | 1.89 | 160    | 1.76 | 169    | 1.66 |
|   | —20  | 21                            | 3.43 | 51     | 2.90 | 76     | 2.67 | 97     | 2.44 | 115    | 2.26 | 129    | 2.08 | 142    | 1.94 | 152    | 1.80 | 161    | 1.68 | 170    | 1.59 |
|   | —10  | 28                            | 3.17 | 56     | 2.70 | 80     | 2.51 | 101    | 2.32 | 118    | 2.14 | 132    | 1.98 | 144    | 1.84 | 154    | 1.71 | 163    | 1.61 | 172    | 1.52 |
|   | 0  | 35                            | 2.92 | 62     | 2.50 | 86     | 2.40 | 105    | 2.19 | 122    | 2.04 | 135    | 1.88 | 146    | 1.74 | 156    | 1.63 | 165    | 1.53 | 174    | 1.45 |
|   | 10   | 42                            | 2.67 | 68     | 2.42 | 91     | 2.26 | 110    | 2.09 | 125    | 1.92 | 138    | 1.78 | 149    | 1.66 | 159    | 1.56 | 168    | 1.47 | 176    | 1.39 |
|   | 20   | 50                            | 2.51 | 74     | 2.26 | 96     | 2.12 | 114    | 2.01 | 128    | 1.80 | 141    | 1.69 | 152    | 1.58 | 161    | 1.47 | 170    | 1.39 | 178    | 1.32 |
|   | 30   | 58                            | 2.34 | 82     | 2.17 | 102    | 2.01 | 119    | 1.86 | 133    | 1.72 | 145    | 1.60 | 155    | 1.49 | 164    | 1.40 | 172    | 1.32 | 180    | 1.25 |
|   | 40   | 66                            | 2.17 | 89     | 2.05 | 108    | 1.89 | 124    | 1.76 | 137    | 1.62 | 148    | 1.50 | 158    | 1.41 | 167    | 1.33 | 175    | 1.25 | 182    | 1.19 |
|   | 50   | 75                            | 2.09 | 96     | 1.92 | 114    | 1.78 | 128    | 1.63 | 141    | 1.52 | 152    | 1.42 | 161    | 1.33 | 170    | 1.25 | 178    | 1.19 | 184    | 1.12 |
|   | 60   | 84                            | 2.01 | 104    | 1.84 | 120    | 1.67 | 134    | 1.55 | 146    | 1.44 | 156    | 1.34 | 164    | 1.24 | 173    | 1.18 | 180    | 1.11 | 187    | 1.06 |
|   | 70   | 92                            | 1.84 | 111    | 1.71 | 126    | 1.56 | 139    | 1.44 | 150    | 1.34 | 159    | 1.24 | 168    | 1.17 | 176    | 1.11 | 183    | 1.05 | 189    | 0.99 |
| 1000  | —40  | 3                             | 4.50 | 34     | 3.87 | 60     | 3.48 | 82     | 3.19 | 100    | 2.93 | 117    | 2.73 | 130    | 2.54 | 142    | 2.38 | 152    | 2.23 | 161    | 2.10 |
|   | —30  | 10                            | 4.18 | 40     | 3.60 | 65     | 3.31 | 86     | 3.03 | 104    | 2.80 | 120    | 2.61 | 133    | 2.48 | 144    | 2.27 | 154    | 2.13 | 163    | 2.02 |
|   | —20  | 17                            | 3.87 | 46     | 3.45 | 70     | 3.13 | 90     | 2.87 | 108    | 2.68 | 122    | 2.47 | 135    | 2.31 | 146    | 2.17 | 156    | 2.04 | 165    | 1.93 |
|   | —10  | 24                            | 3.56 | 51     | 3.19 | 75     | 2.96 | 94     | 2.72 | 112    | 2.55 | 126    | 2.37 | 138    | 2.21 | 148    | 2.06 | 158    | 1.95 | 166    | 1.84 |
|   | 0  | 32                            | 3.35 | 58     | 3.03 | 80     | 2.79 | 99     | 2.58 | 116    | 2.42 | 129    | 2.25 | 141    | 2.10 | 151    | 1.97 | 160    | 1.86 | 169    | 1.77 |
|   | 10   | 40                            | 3.14 | 65     | 2.87 | 86     | 2.65 | 104    | 2.45 | 120    | 2.30 | 133    | 2.14 | 144    | 2.00 | 154    | 1.88 | 163    | 1.77 | 171    | 1.68 |
|   | 20   | 48                            | 2.93 | 72     | 2.72 | 92     | 2.51 | 110    | 2.35 | 124    | 2.17 | 137    | 2.04 | 147    | 1.90 | 157    | 1.79 | 166    | 1.69 | 173    | 1.60 |
|   | 30   | 56                            | 2.72 | 79     | 2.50 | 98     | 2.37 | 114    | 2.19 | 128    | 2.05 | 140    | 1.91 | 150    | 1.79 | 160    | 1.70 | 168    | 1.60 | 176    | 1.53 |
|   | 40   | 65                            | 2.62 | 86     | 2.40 | 104    | 2.23 | 120    | 2.09 | 133    | 1.94 | 144    | 1.81 | 154    | 1.70 | 163    | 1.61 | 171    | 1.52 | 178    | 1.44 |
|   | 50   | 74                            | 2.51 | 93     | 2.25 | 111    | 2.12 | 125    | 1.96 | 137    | 1.82 | 148    | 1.71 | 158    | 1.61 | 166    | 1.51 | 174    | 1.44 | 181    | 1.37 |
|   | 60   | 82                            | 2.30 | 100    | 2.09 | 117    | 1.98 | 130    | 1.83 | 142    | 1.71 | 152    | 1.60 | 161    | 1.51 | 169    | 1.42 | 177    | 1.36 | 184    | 1.30 |
|   | 70   | 91                            | 2.20 | 108    | 1.99 | 123    | 1.85 | 136    | 1.72 | 140    | 1.59 | 156    | 1.50 | 165    | 1.42 | 173    | 1.34 | 180    | 1.28 | 186    | 1.21 |

\* Final temperature of air leaving heater.

† Condensation in pounds per square foot of heating surface per hour.

# Sturtevant Heaters—Return Bend Type

## Final Temperatures and Condensations

Steam Pressure  
20 Pounds Gauge

Steam Temperature  
259° F.

| Velocity through Heater<br>in Feet per Minute<br>at 65 Degrees F. | Temperature of<br>Entering Air<br>Degrees F. | Number of 4-Row Sections Deep |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
|---|--|-------------------------------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|
|   |  | 1                             |      | 2      |      | 3      |      | 4      |      | 5      |      | 6      |      | 7      |      | 8      |      | 9      |      | 10     |      |
|   |  | F. T.*                        | C.†  | F. T.* | C.†  | F. T.* | C.†  | F. T.* | C.†  | F. T.* | C.†  | F. T.* | C.†  | F. T.* | C.†  | F. T.* | C.†  | F. T.* | C.†  | F. T.* | C.†  |
| 1200  | —40  | —2                            | 4.77 | 28     | 4.27 | 53     | 3.89 | 73     | 3.55 | 92     | 3.32 | 108    | 3.10 | 122    | 2.91 | 134    | 2.73 | 144    | 2.56 | 154    | 2.44 |
|   | —30  | 5                             | 4.39 | 33     | 3.96 | 58     | 3.68 | 78     | 3.39 | 96     | 3.16 | 112    | 2.97 | 124    | 2.76 | 136    | 2.61 | 146    | 2.45 | 156    | 2.34 |
|   | —20  | 13                            | 4.14 | 40     | 3.77 | 63     | 3.47 | 83     | 3.23 | 100    | 3.01 | 115    | 2.82 | 128    | 2.66 | 139    | 2.50 | 149    | 2.36 | 158    | 2.24 |
|   | —10  | 21                            | 3.89 | 47     | 3.58 | 69     | 3.31 | 88     | 3.07 | 105    | 2.89 | 119    | 2.70 | 131    | 2.53 | 142    | 2.39 | 151    | 2.25 | 160    | 2.13 |
|   | 0  | 29                            | 3.64 | 54     | 3.39 | 75     | 3.14 | 93     | 2.92 | 109    | 2.74 | 123    | 2.57 | 134    | 2.40 | 145    | 2.28 | 154    | 2.15 | 162    | 2.03 |
|   | 10   | 38                            | 3.52 | 61     | 3.20 | 81     | 2.97 | 99     | 2.79 | 114    | 2.61 | 127    | 2.45 | 138    | 2.29 | 148    | 2.17 | 157    | 2.05 | 165    | 1.95 |
|   | 20   | 46                            | 3.26 | 68     | 3.01 | 87     | 2.80 | 104    | 2.64 | 118    | 2.46 | 131    | 2.32 | 141    | 2.17 | 151    | 2.06 | 160    | 1.95 | 168    | 1.86 |
|   | 30   | 55                            | 3.14 | 76     | 2.89 | 94     | 2.68 | 110    | 2.51 | 123    | 2.34 | 135    | 2.20 | 145    | 2.06 | 154    | 1.95 | 163    | 1.85 | 170    | 1.76 |
|   | 40   | 63                            | 2.89 | 83     | 2.70 | 100    | 2.51 | 115    | 2.35 | 128    | 2.21 | 139    | 2.07 | 149    | 1.95 | 158    | 1.85 | 166    | 1.76 | 173    | 1.67 |
|   | 50   | 72                            | 2.76 | 90     | 2.51 | 107    | 2.38 | 120    | 2.20 | 132    | 2.06 | 143    | 1.94 | 153    | 1.85 | 161    | 1.74 | 169    | 1.66 | 176    | 1.58 |
|   | 60   | 80                            | 2.51 | 98     | 2.38 | 113    | 2.22 | 126    | 2.07 | 137    | 1.93 | 148    | 1.84 | 156    | 1.72 | 164    | 1.63 | 172    | 1.56 | 178    | 1.48 |
|   | 70   | 89                            | 2.39 | 106    | 2.26 | 120    | 2.09 | 132    | 1.94 | 142    | 1.81 | 152    | 1.71 | 160    | 1.62 | 168    | 1.54 | 175    | 1.47 | 181    | 1.39 |
| 1500  | —40  | —8                            | 5.02 | 20     | 4.71 | 43     | 4.34 | 63     | 4.04 | 81     | 3.80 | 97     | 3.58 | 110    | 3.37 | 122    | 3.18 | 133    | 3.02 | 143    | 2.88 |
|   | —30  | 1                             | 4.87 | 27     | 4.47 | 49     | 4.13 | 69     | 3.88 | 86     | 3.64 | 101    | 3.43 | 112    | 3.18 | 125    | 3.04 | 136    | 2.90 | 146    | 2.76 |
|   | —20  | 9                             | 4.56 | 34     | 4.24 | 55     | 3.93 | 74     | 3.69 | 91     | 3.48 | 105    | 3.27 | 118    | 3.10 | 129    | 2.92 | 139    | 2.77 | 149    | 2.66 |
|   | —10  | 18                            | 4.40 | 41     | 4.00 | 62     | 3.77 | 80     | 3.53 | 96     | 3.33 | 110    | 3.14 | 121    | 2.94 | 133    | 2.81 | 148    | 2.67 | 152    | 2.54 |
|   | 0  | 26                            | 4.08 | 49     | 3.85 | 68     | 3.56 | 86     | 3.37 | 101    | 3.17 | 114    | 2.98 | 125    | 2.81 | 136    | 2.67 | 146    | 2.55 | 154    | 2.42 |
|   | 10   | 34                            | 3.77 | 56     | 3.61 | 75     | 3.40 | 91     | 3.18 | 105    | 2.98 | 118    | 2.83 | 129    | 2.67 | 140    | 2.55 | 149    | 2.42 | 157    | 2.31 |
|   | 20   | 43                            | 3.61 | 63     | 3.37 | 81     | 3.19 | 97     | 3.02 | 110    | 2.83 | 122    | 2.67 | 133    | 2.54 | 143    | 2.42 | 152    | 2.30 | 160    | 2.20 |
|   | 30   | 52                            | 3.46 | 72     | 3.30 | 89     | 3.09 | 103    | 2.86 | 116    | 2.70 | 127    | 2.64 | 138    | 2.42 | 147    | 2.30 | 156    | 2.20 | 164    | 2.11 |
|   | 40   | 61                            | 3.30 | 79     | 3.06 | 95     | 2.88 | 109    | 2.71 | 121    | 2.54 | 132    | 2.41 | 142    | 2.29 | 151    | 2.18 | 159    | 2.08 | 167    | 2.00 |
|   | 50   | 70                            | 3.14 | 87     | 2.90 | 102    | 2.72 | 115    | 2.55 | 126    | 2.38 | 137    | 2.28 | 147    | 2.18 | 155    | 2.06 | 163    | 1.97 | 170    | 1.89 |
|   | 60   | 79                            | 2.98 | 94     | 2.67 | 108    | 2.51 | 120    | 2.35 | 131    | 2.23 | 142    | 2.14 | 151    | 2.04 | 159    | 1.94 | 166    | 1.85 | 173    | 1.78 |
|   | 70   | 87                            | 2.67 | 102    | 2.51 | 115    | 2.35 | 126    | 2.20 | 137    | 2.10 | 147    | 2.01 | 155    | 1.91 | 163    | 1.82 | 170    | 1.74 | 176    | 1.66 |
| 1800  | —40  | —11                           | 5.45 | 15     | 5.17 | 37     | 4.82 | 58     | 4.60 | 76     | 4.36 | 91     | 4.10 | 104    | 3.87 | 116    | 3.67 | 126    | 3.47 | 136    | 3.31 |
|   | —30  | —2                            | 5.27 | 23     | 4.98 | 44     | 4.63 | 64     | 4.42 | 81     | 4.17 | 96     | 3.94 | 108    | 3.71 | 120    | 3.53 | 130    | 3.34 | 140    | 3.20 |
|   | —20  | 7                             | 5.07 | 30     | 4.70 | 51     | 4.44 | 70     | 4.23 | 87     | 3.98 | 100    | 3.76 | 112    | 3.55 | 123    | 3.36 | 133    | 3.20 | 143    | 3.06 |
|   | —10  | 15                            | 4.70 | 37     | 4.42 | 58     | 4.26 | 76     | 4.04 | 91     | 3.80 | 104    | 3.57 | 116    | 3.39 | 126    | 3.20 | 136    | 3.05 | 146    | 2.93 |
|   | 0  | 24                            | 4.52 | 46     | 4.32 | 65     | 4.07 | 82     | 3.85 | 96     | 3.61 | 109    | 3.41 | 120    | 3.23 | 130    | 3.06 | 140    | 2.92 | 149    | 2.80 |
|   | 10   | 33                            | 4.32 | 54     | 4.13 | 72     | 3.88 | 88     | 3.66 | 101    | 3.42 | 114    | 3.26 | 124    | 3.06 | 134    | 2.92 | 144    | 2.80 | 153    | 2.69 |
|   | 20   | 42                            | 4.13 | 61     | 3.85 | 79     | 3.70 | 94     | 3.48 | 106    | 3.23 | 118    | 3.07 | 128    | 2.90 | 138    | 2.77 | 148    | 2.68 | 156    | 2.56 |
|   | 30   | 51                            | 3.95 | 70     | 3.76 | 86     | 3.51 | 100    | 3.29 | 112    | 3.08 | 123    | 2.91 | 133    | 2.77 | 143    | 2.66 | 152    | 2.55 | 160    | 2.44 |
|   | 40   | 60                            | 3.76 | 78     | 3.57 | 93     | 3.32 | 106    | 3.10 | 117    | 2.89 | 128    | 2.75 | 138    | 2.63 | 147    | 2.52 | 155    | 2.40 | 163    | 2.33 |
|   | 50   | 69                            | 3.57 | 85     | 3.29 | 99     | 3.07 | 111    | 2.87 | 122    | 2.70 | 132    | 2.57 | 142    | 2.47 | 151    | 2.37 | 159    | 2.28 | 166    | 2.18 |
|   | 60   | 78                            | 3.38 | 93     | 3.10 | 106    | 2.88 | 117    | 2.68 | 128    | 2.55 | 138    | 2.44 | 147    | 2.34 | 155    | 2.23 | 163    | 2.15 | 170    | 2.07 |
|   | 70   | 86                            | 3.01 | 100    | 2.82 | 112    | 2.63 | 122    | 2.44 | 133    | 2.37 | 143    | 2.28 | 152    | 2.20 | 159    | 2.09 | 167    | 2.03 | 173    | 1.94 |

\* Final temperature of air leaving heater.

† Condensation in pounds per square foot of heating surface per hour.

# Sturtevant Heaters—Return Bend Type

## Final Temperatures and Condensations

Steam Pressure  
40 Pounds Gauge

Steam Temperature  
287° F.

| Velocity through Heater<br>in Feet per minute<br>at 65 Degrees F. | Temperature of<br>Entering Air<br>Degrees F. | Number of 4-Row Sections Deep |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
|---|--|-------------------------------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|
|   |  | 1                             |      | 2      |      | 3      |      | 4      |      | 5      |      | 6      |      | 7      |      | 8      |      | 9      |      | 10     |      |
|   |  | F. T.*                        | C.†  | F. T.* | C.†  | F. T.* | C.†  | F. T.* | C.†  | F. T.* | C.†  | F. T.* | C.†  | F. T.* | C.†  | F. T.* | C.†  | F. T.* | C.†  | F. T.* | C.†  |
| 600   | —40  | 23                            | 4.04 | 61     | 3.24 | 92     | 2.82 | 118    | 2.53 | 138    | 2.28 | 155    | 2.08 | 169    | 1.92 | 181    | 1.77 | 191    | 1.65 | 200    | 1.54 |
|   | —30  | 28                            | 3.72 | 65     | 3.05 | 95     | 2.67 | 121    | 2.42 | 141    | 2.19 | 157    | 2.00 | 170    | 1.83 | 182    | 1.70 | 192    | 1.58 | 201    | 1.48 |
|   | —20  | 33                            | 3.40 | 69     | 2.88 | 99     | 2.54 | 123    | 2.29 | 143    | 2.09 | 159    | 1.91 | 172    | 1.76 | 183    | 1.63 | 193    | 1.52 | 202    | 1.42 |
|   | —10  | 39                            | 3.14 | 74     | 2.69 | 102    | 2.40 | 127    | 2.20 | 146    | 2.00 | 161    | 1.83 | 174    | 1.69 | 185    | 1.56 | 194    | 1.45 | 203    | 1.36 |
|   | 0  | 45                            | 2.89 | 78     | 2.50 | 107    | 2.29 | 130    | 2.08 | 148    | 1.90 | 163    | 1.74 | 176    | 1.61 | 186    | 1.49 | 196    | 1.40 | 204    | 1.31 |
|   | 10   | 52                            | 2.69 | 84     | 2.37 | 112    | 2.18 | 133    | 1.97 | 151    | 1.81 | 165    | 1.66 | 178    | 1.54 | 188    | 1.43 | 198    | 1.34 | 205    | 1.25 |
|   | 20   | 59                            | 2.50 | 90     | 2.25 | 116    | 2.05 | 137    | 1.88 | 154    | 1.72 | 168    | 1.58 | 180    | 1.47 | 190    | 1.36 | 199    | 1.28 | 207    | 1.20 |
|   | 30   | 67                            | 2.37 | 97     | 2.15 | 122    | 1.97 | 141    | 1.78 | 158    | 1.64 | 171    | 1.51 | 182    | 1.39 | 192    | 1.30 | 201    | 1.22 | 209    | 1.15 |
|   | 40   | 74                            | 2.18 | 103    | 2.02 | 127    | 1.86 | 146    | 1.70 | 161    | 1.55 | 174    | 1.43 | 185    | 1.33 | 194    | 1.23 | 203    | 1.16 | 210    | 1.09 |
|   | 50   | 82                            | 2.05 | 110    | 1.93 | 132    | 1.75 | 150    | 1.60 | 165    | 1.48 | 177    | 1.36 | 188    | 1.26 | 197    | 1.18 | 205    | 1.10 | 212    | 1.04 |
|   | 60   | 91                            | 1.99 | 117    | 1.83 | 138    | 1.67 | 155    | 1.52 | 168    | 1.39 | 180    | 1.28 | 190    | 1.19 | 200    | 1.12 | 207    | 1.05 | 214    | 0.99 |
|   | 70   | 99                            | 1.86 | 124    | 1.73 | 143    | 1.56 | 159    | 1.42 | 172    | 1.31 | 184    | 1.22 | 193    | 1.13 | 202    | 1.06 | 209    | 0.99 | 216    | 0.94 |
|   | —40  | 16                            | 4.79 | 52     | 3.93 | 81     | 3.45 | 106    | 3.12 | 128    | 2.88 | 145    | 2.64 | 160    | 2.45 | 172    | 2.27 | 183    | 2.12 | 192    | 1.99 |
|   | —30  | 22                            | 4.45 | 57     | 3.72 | 86     | 3.31 | 110    | 2.99 | 130    | 2.74 | 148    | 2.54 | 161    | 2.33 | 174    | 2.18 | 184    | 2.03 | 194    | 1.92 |
|   | —20  | 28                            | 4.11 | 62     | 3.50 | 90     | 3.14 | 113    | 2.84 | 133    | 2.62 | 150    | 2.42 | 163    | 2.24 | 175    | 2.09 | 186    | 1.96 | 195    | 1.84 |
|   | —10  | 35                            | 3.85 | 67     | 3.29 | 94     | 2.96 | 117    | 2.72 | 136    | 2.50 | 152    | 2.31 | 165    | 2.14 | 177    | 2.00 | 187    | 1.87 | 196    | 1.76 |
| 800   | 0  | 41                            | 3.51 | 72     | 3.08 | 98     | 2.79 | 120    | 2.57 | 140    | 2.40 | 155    | 2.21 | 168    | 2.05 | 179    | 1.91 | 189    | 1.79 | 198    | 1.69 |
|   | 10   | 48                            | 3.25 | 78     | 2.91 | 103    | 2.65 | 124    | 2.44 | 143    | 2.28 | 158    | 2.11 | 170    | 1.96 | 181    | 1.83 | 191    | 1.72 | 200    | 1.63 |
|   | 20   | 56                            | 3.08 | 84     | 2.73 | 109    | 2.54 | 130    | 2.35 | 146    | 2.16 | 160    | 2.00 | 173    | 1.87 | 184    | 1.76 | 193    | 1.64 | 201    | 1.55 |
|   | 30   | 63                            | 2.82 | 91     | 2.61 | 114    | 2.39 | 134    | 2.22 | 150    | 2.05 | 164    | 1.91 | 176    | 1.79 | 186    | 1.67 | 196    | 1.58 | 203    | 1.48 |
|   | 40   | 71                            | 2.65 | 97     | 2.44 | 120    | 2.28 | 139    | 2.12 | 154    | 1.95 | 167    | 1.81 | 178    | 1.69 | 188    | 1.58 | 198    | 1.50 | 205    | 1.41 |
|   | 50   | 80                            | 2.57 | 104    | 2.31 | 126    | 2.17 | 144    | 2.01 | 159    | 1.86 | 171    | 1.72 | 182    | 1.61 | 192    | 1.52 | 200    | 1.42 | 208    | 1.35 |
|   | 60   | 88                            | 2.39 | 112    | 2.22 | 132    | 2.05 | 149    | 1.90 | 162    | 1.75 | 174    | 1.63 | 185    | 1.53 | 195    | 1.44 | 202    | 1.35 | 210    | 1.28 |
|   | 70   | 97                            | 2.31 | 119    | 2.09 | 138    | 1.94 | 154    | 1.80 | 167    | 1.66 | 178    | 1.54 | 188    | 1.44 | 197    | 1.36 | 205    | 1.28 | 212    | 1.22 |
|   | —40  | 10                            | 5.34 | 45     | 4.54 | 74     | 4.06 | 98     | 3.69 | 119    | 3.40 | 137    | 3.15 | 152    | 2.93 | 164    | 2.72 | 176    | 2.56 | 186    | 2.42 |
|   | —30  | 17                            | 5.02 | 50     | 4.28 | 78     | 3.84 | 102    | 3.53 | 122    | 3.25 | 140    | 3.03 | 154    | 2.81 | 166    | 2.62 | 177    | 2.45 | 188    | 2.33 |
|   | —20  | 23                            | 4.59 | 55     | 4.01 | 82     | 3.63 | 105    | 3.34 | 125    | 3.10 | 142    | 2.89 | 156    | 2.68 | 168    | 2.51 | 179    | 2.36 | 189    | 2.23 |
|   | —10  | 30                            | 4.27 | 61     | 3.79 | 87     | 3.45 | 110    | 3.21 | 129    | 2.97 | 145    | 2.76 | 159    | 2.58 | 170    | 2.40 | 181    | 2.27 | 191    | 2.15 |
|   | 0  | 37                            | 3.95 | 67     | 3.58 | 92     | 3.27 | 114    | 3.05 | 133    | 2.84 | 148    | 2.64 | 161    | 2.45 | 173    | 2.31 | 183    | 2.17 | 193    | 2.06 |
|   | 10   | 45                            | 3.74 | 74     | 3.42 | 98     | 3.13 | 119    | 2.91 | 137    | 2.71 | 152    | 2.53 | 164    | 2.35 | 176    | 2.21 | 186    | 2.09 | 195    | 1.97 |
|   | 20   | 53                            | 3.53 | 80     | 3.21 | 104    | 2.99 | 124    | 2.78 | 141    | 2.58 | 155    | 2.41 | 167    | 2.24 | 178    | 2.11 | 188    | 1.99 | 197    | 1.89 |
|   | 30   | 61                            | 3.31 | 87     | 3.05 | 110    | 2.85 | 129    | 2.64 | 145    | 2.46 | 159    | 2.30 | 170    | 2.14 | 181    | 2.01 | 191    | 1.91 | 199    | 1.81 |
|   | 40   | 70                            | 3.21 | 95     | 2.94 | 116    | 2.70 | 134    | 2.51 | 149    | 2.33 | 162    | 2.17 | 174    | 2.04 | 184    | 1.92 | 193    | 1.81 | 201    | 1.72 |
|   | 50   | 78                            | 2.99 | 102    | 2.78 | 122    | 2.56 | 140    | 2.40 | 154    | 2.22 | 166    | 2.07 | 177    | 1.94 | 188    | 1.84 | 196    | 1.73 | 204    | 1.65 |
|   | 60   | 86                            | 2.78 | 109    | 2.62 | 128    | 2.42 | 144    | 2.24 | 158    | 2.09 | 170    | 1.90 | 181    | 1.84 | 190    | 1.73 | 199    | 1.65 | 206    | 1.56 |
|   | 70   | 95                            | 2.67 | 117    | 2.51 | 135    | 2.31 | 150    | 2.14 | 163    | 1.99 | 174    | 1.85 | 184    | 1.74 | 194    | 1.66 | 202    | 1.56 | 209    | 1.49 |

\* Final temperature of air leaving heater.

† Condensation in pounds per square foot of heating surface per hour

# Sturtevant Heaters—Return Bend Type

Final Temperatures and Condensations

Steam Pressure  
40 Pounds Gauge

Steam Temperature  
287° F.

| Velocity through Heater<br>in Feet per minute<br>at 65 Degrees F. |     | Temperature of<br>Entering Air<br>Degrees F. |      | Number of 4-Row Sections Deep |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |     |
|---|-----|--|------|-------------------------------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|-----|
|   |     |  |      | 1                             |      | 2      |      | 3      |      | 4      |      | 5      |      | 6      |      | 7      |      | 8      |      | 9      |      | 10     |     |
|   |     |  |      | F. T.*                        | C.†  | F. T.* | C.†  | F. T.* | C.†  | F. T.* | C.†  | F. T.* | C.†  | F. T.* | C.†  | F. T.* | C.†  | F. T.* | C.†  | F. T.* | C.†  | F. T.* | C.† |
| 1200  | —40 | 4  | 5.65 | 37                            | 4.95 | 65     | 4.50 | 88     | 4.12 | 109    | 3.83 | 127    | 3.58 | 142    | 3.34 | 155    | 3.13 | 167    | 2.95 | 178    | 2.80 |        |     |
|   | —30 | 11   | 5.27 | 43                            | 4.69 | 70     | 4.29 | 93     | 3.95 | 113    | 3.68 | 130    | 3.43 | 144    | 3.19 | 157    | 3.00 | 169    | 2.84 | 179    | 2.69 |        |     |
|   | —20 | 18   | 4.88 | 49                            | 4.43 | 75     | 4.07 | 97     | 3.76 | 117    | 3.53 | 133    | 3.28 | 147    | 3.07 | 160    | 2.89 | 171    | 2.72 | 181    | 2.58 |        |     |
|   | —10 | 26   | 4.62 | 56                            | 4.24 | 80     | 3.86 | 102    | 3.60 | 121    | 3.37 | 137    | 3.14 | 150    | 2.94 | 162    | 2.76 | 174    | 2.62 | 183    | 2.48 |        |     |
|   | 0   | 34   | 4.37 | 62                            | 3.98 | 86     | 3.69 | 107    | 3.44 | 125    | 3.22 | 140    | 3.00 | 154    | 2.83 | 165    | 2.65 | 176    | 2.51 | 185    | 2.38 |        |     |
|   | 10  | 42   | 4.11 | 69                            | 3.79 | 92     | 3.51 | 112    | 3.28 | 129    | 3.06 | 144    | 2.87 | 157    | 2.70 | 169    | 2.55 | 179    | 2.41 | 188    | 2.29 |        |     |
|   | 20  | 50   | 3.86 | 76                            | 3.60 | 98     | 3.34 | 118    | 3.15 | 134    | 2.93 | 148    | 2.74 | 160    | 2.57 | 172    | 2.44 | 181    | 2.29 | 190    | 2.18 |        |     |
|   | 30  | 59   | 3.73 | 83                            | 3.41 | 105    | 3.21 | 123    | 2.99 | 139    | 2.80 | 152    | 2.61 | 164    | 2.46 | 175    | 2.33 | 184    | 2.19 | 193    | 2.09 |        |     |
|   | 40  | 66   | 3.34 | 91                            | 3.28 | 111    | 3.04 | 128    | 2.83 | 143    | 2.65 | 156    | 2.48 | 168    | 2.35 | 178    | 2.22 | 187    | 2.10 | 196    | 2.00 |        |     |
|   | 50  | 75   | 3.21 | 98                            | 3.08 | 118    | 2.91 | 134    | 2.70 | 148    | 2.52 | 160    | 2.35 | 172    | 2.24 | 181    | 2.10 | 190    | 2.00 | 198    | 1.90 |        |     |
|   | 60  | 84   | 3.08 | 105                           | 2.89 | 124    | 2.74 | 139    | 2.54 | 152    | 2.36 | 164    | 2.23 | 175    | 2.11 | 184    | 1.99 | 193    | 1.90 | 200    | 1.80 |        |     |
|   | 70  | 93   | 2.95 | 113                           | 2.76 | 130    | 2.57 | 144    | 2.38 | 157    | 2.23 | 169    | 2.12 | 179    | 2.00 | 188    | 1.89 | 196    | 1.80 | 203    | 1.71 |        |     |
| 1500  | —40 | —2   | 6.10 | 20                            | 5.54 | 56     | 5.13 | 78     | 4.74 | 98     | 4.43 | 114    | 4.12 | 129    | 3.88 | 142    | 3.66 | 154    | 3.46 | 165    | 3.29 |        |     |
|   | —30 | 6  | 5.78 | 26                            | 5.30 | 61     | 4.87 | 83     | 4.54 | 102    | 4.24 | 118    | 3.96 | 132    | 3.72 | 144    | 3.50 | 156    | 3.32 | 167    | 3.16 |        |     |
|   | —20 | 14   | 5.45 | 33                            | 5.05 | 67     | 4.66 | 88     | 4.33 | 106    | 4.05 | 121    | 3.77 | 135    | 3.55 | 148    | 3.37 | 159    | 3.19 | 170    | 3.05 |        |     |
|   | —10 | 22   | 5.13 | 40                            | 4.81 | 73     | 4.44 | 93     | 4.14 | 111    | 3.89 | 125    | 3.61 | 139    | 3.42 | 151    | 3.23 | 162    | 3.07 | 172    | 2.92 |        |     |
|   | 0   | 30   | 4.82 | 57                            | 4.57 | 79     | 4.23 | 98     | 3.94 | 115    | 3.69 | 129    | 3.45 | 142    | 3.26 | 154    | 3.09 | 166    | 2.96 | 174    | 2.79 |        |     |
|   | 10  | 39   | 4.66 | 64                            | 4.33 | 85     | 4.02 | 103    | 3.73 | 120    | 3.53 | 134    | 3.32 | 146    | 3.12 | 158    | 2.97 | 168    | 2.82 | 177    | 2.68 |        |     |
|   | 20  | 48   | 4.50 | 71                            | 4.09 | 91     | 3.80 | 109    | 3.57 | 124    | 3.34 | 138    | 3.16 | 150    | 2.98 | 161    | 2.83 | 171    | 2.69 | 180    | 2.57 |        |     |
|   | 30  | 56   | 4.17 | 79                            | 3.93 | 98     | 3.64 | 115    | 3.41 | 129    | 3.18 | 142    | 3.00 | 154    | 2.84 | 165    | 2.71 | 174    | 2.57 | 182    | 2.44 |        |     |
|   | 40  | 64   | 3.85 | 86                            | 3.69 | 104    | 3.42 | 120    | 3.21 | 134    | 3.02 | 146    | 2.84 | 158    | 2.71 | 169    | 2.59 | 177    | 2.44 | 185    | 2.33 |        |     |
|   | 50  | 73   | 3.69 | 93                            | 3.45 | 110    | 3.21 | 125    | 3.01 | 139    | 2.86 | 151    | 2.70 | 162    | 2.57 | 172    | 2.45 | 180    | 2.30 | 188    | 2.21 |        |     |
|   | 60  | 82   | 3.53 | 100                           | 3.21 | 117    | 3.05 | 131    | 2.85 | 144    | 2.70 | 156    | 2.57 | 167    | 2.45 | 176    | 2.33 | 184    | 2.21 | 191    | 2.10 |        |     |
|   | 70  | 91   | 3.37 | 108                           | 3.05 | 123    | 2.84 | 137    | 2.69 | 149    | 2.54 | 161    | 2.43 | 171    | 2.32 | 179    | 2.19 | 187    | 2.09 | 194    | 1.99 |        |     |
| 1800  | —40 | —6   | 6.55 | 23                            | 6.07 | 47     | 5.58 | 69     | 5.25 | 88     | 4.92 | 106    | 4.60 | 120    | 4.40 | 134    | 4.19 | 146    | 3.98 | 157    | 3.79 |        |     |
|   | —30 | 3  | 6.35 | 31                            | 5.87 | 54     | 5.39 | 75     | 5.05 | 94     | 4.77 | 110    | 4.50 | 124    | 4.23 | 138    | 4.04 | 149    | 3.83 | 160    | 3.66 |        |     |
|   | —20 | 11   | 5.97 | 38                            | 5.59 | 60     | 5.13 | 80     | 4.81 | 99     | 4.58 | 114    | 4.30 | 128    | 4.07 | 141    | 3.88 | 153    | 3.70 | 163    | 3.52 |        |     |
|   | —10 | 20   | 5.78 | 45                            | 5.30 | 66     | 4.87 | 86     | 4.62 | 104    | 4.38 | 119    | 4.14 | 132    | 3.91 | 144    | 3.71 | 156    | 3.55 | 166    | 3.39 |        |     |
|   | 0   | 28   | 5.39 | 52                            | 5.01 | 73     | 4.68 | 92     | 4.42 | 109    | 4.20 | 123    | 3.95 | 136    | 3.74 | 148    | 3.56 | 159    | 3.40 | 169    | 3.25 |        |     |
|   | 10  | 36   | 5.00 | 59                            | 4.72 | 80     | 4.49 | 98     | 4.23 | 114    | 4.00 | 127    | 3.76 | 140    | 3.58 | 152    | 3.42 | 162    | 3.25 | 172    | 3.12 |        |     |
|   | 20  | 45   | 4.82 | 66                            | 4.43 | 86     | 4.23 | 104    | 4.04 | 119    | 3.81 | 132    | 3.60 | 144    | 3.41 | 156    | 3.27 | 166    | 3.12 | 175    | 2.98 |        |     |
|   | 30  | 53   | 4.43 | 74                            | 4.24 | 93     | 4.04 | 110    | 3.85 | 124    | 3.62 | 137    | 3.44 | 149    | 3.27 | 160    | 3.13 | 170    | 3.00 | 178    | 2.85 |        |     |
|   | 40  | 62   | 4.23 | 82                            | 4.04 | 100    | 3.85 | 116    | 3.65 | 129    | 3.42 | 142    | 3.28 | 154    | 3.14 | 164    | 2.98 | 173    | 2.85 | 182    | 2.73 |        |     |
|   | 50  | 71   | 4.04 | 91                            | 3.95 | 108    | 3.72 | 122    | 3.46 | 135    | 3.27 | 147    | 3.11 | 159    | 3.00 | 168    | 2.84 | 177    | 2.72 | 185    | 2.60 |        |     |
|   | 60  | 80   | 3.85 | 99                            | 3.76 | 114    | 3.47 | 128    | 3.27 | 141    | 3.12 | 153    | 2.98 | 163    | 2.83 | 172    | 2.70 | 181    | 2.59 | 188    | 2.46 |        |     |
|   | 70  | 89   | 3.66 | 106                           | 3.47 | 121    | 3.27 | 134    | 3.08 | 146    | 2.92 | 158    | 2.83 | 168    | 2.69 | 177    | 2.58 | 184    | 2.44 | 192    | 2.35 |        |     |

Final temperature of air leaving heater.

† Condensation in pounds per square foot of heating surface per hour.

# Sturtevant Heaters—Return Bend Type

## Final Temperatures and Condensations

Steam Pressure  
80 Pounds Gauge

Steam Temperature  
324° F.

| Velocity through Heater<br>in Feet per minute<br>at 65 Degrees F. | Temperature of<br>Entering Air<br>Degrees F. | Number of 4-Row Sections Deep |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
|---|--|-------------------------------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|
|   |  | 1                             |      | 2      |      | 3      |      | 4      |      | 5      |      | 6      |      | 7      |      | 8      |      | 9      |      | 10     |      |
|   |  | F. T.*                        | C.†  | F. T.* | C.†  | F. T.* | C.†  | F. T.* | C.†  | F. T.* | C.†  | F. T.* | C.†  | F. T.* | C.†  | F. T.* | C.†  | F. T.* | C.†  | F. T.* | C.†  |
| 600   | —40  | 37                            | 5.06 | 80     | 3.94 | 114    | 3.37 | 141    | 2.97 | 164    | 2.68 | 183    | 2.44 | 199    | 2.24 | 212    | 2.07 | 223    | 1.92 | 232    | 1.71 |
|   | —30  | 41                            | 4.66 | 83     | 3.74 | 116    | 3.20 | 143    | 2.83 | 165    | 2.56 | 184    | 2.34 | 200    | 2.16 | 213    | 1.99 | 224    | 1.85 | 233    | 1.71 |
|   | —20  | 45                            | 4.27 | 87     | 3.51 | 119    | 3.06 | 145    | 2.71 | 167    | 2.45 | 186    | 2.25 | 201    | 2.07 | 214    | 1.92 | 225    | 1.79 | 234    | 1.67 |
|   | —10  | 52                            | 4.07 | 91     | 3.32 | 123    | 2.91 | 148    | 2.60 | 170    | 2.36 | 188    | 2.17 | 203    | 2.00 | 215    | 1.85 | 226    | 1.72 | 235    | 1.61 |
|   | 0  | 56                            | 3.68 | 95     | 3.12 | 125    | 2.74 | 151    | 2.48 | 172    | 2.27 | 189    | 2.07 | 204    | 1.91 | 217    | 1.78 | 227    | 1.65 | 236    | 1.54 |
|   | 10   | 62                            | 3.41 | 100    | 2.95 | 130    | 2.63 | 154    | 2.36 | 175    | 2.17 | 192    | 1.99 | 207    | 1.85 | 218    | 1.71 | 228    | 1.59 | 238    | 1.54 |
|   | 20   | 69                            | 3.22 | 105    | 2.79 | 134    | 2.50 | 158    | 2.27 | 177    | 2.00 | 194    | 1.90 | 209    | 1.77 | 220    | 1.64 | 229    | 1.52 | 239    | 1.44 |
|   | 30   | 75                            | 2.95 | 110    | 2.63 | 138    | 2.36 | 161    | 2.15 | 181    | 1.98 | 197    | 1.83 | 211    | 1.70 | 221    | 1.57 | 231    | 1.47 | 240    | 1.38 |
|   | 40   | 82                            | 2.76 | 116    | 2.50 | 142    | 2.23 | 165    | 2.05 | 183    | 1.88 | 199    | 1.74 | 213    | 1.62 | 223    | 1.50 | 232    | 1.40 | 241    | 1.33 |
|   | 50   | 90                            | 2.63 | 122    | 2.36 | 148    | 2.15 | 169    | 1.95 | 187    | 1.80 | 203    | 1.67 | 215    | 1.55 | 225    | 1.44 | 234    | 1.34 | 242    | 1.28 |
|   | 60   | 98                            | 2.50 | 128    | 2.23 | 153    | 2.04 | 174    | 1.87 | 191    | 1.72 | 206    | 1.60 | 218    | 1.48 | 227    | 1.37 | 236    | 1.28 | 243    | 1.21 |
|   | 70   | 105                           | 2.30 | 134    | 2.10 | 158    | 1.93 | 177    | 1.76 | 195    | 1.64 | 209    | 1.52 | 220    | 1.40 | 230    | 1.31 | 238    | 1.22 | 245    | 1.14 |
| 800   | —40  | 27                            | 5.88 | 70     | 4.82 | 105    | 4.24 | 132    | 3.77 | 155    | 3.42 | 174    | 3.13 | 189    | 2.87 | 202    | 2.65 | 213    | 2.47 | 223    | 2.3  |
|   | —30  | 33                            | 5.52 | 74     | 4.56 | 108    | 4.03 | 135    | 3.62 | 157    | 3.28 | 176    | 3.01 | 190    | 2.76 | 203    | 2.56 | 215    | 2.39 | 224    | 2.2  |
|   | —20  | 38                            | 5.08 | 78     | 4.30 | 112    | 3.80 | 138    | 3.47 | 159    | 3.14 | 177    | 2.88 | 192    | 2.66 | 205    | 2.47 | 216    | 2.30 | 225    | 2.1  |
|   | —10  | 44                            | 4.74 | 84     | 4.12 | 116    | 3.68 | 141    | 3.31 | 162    | 3.02 | 180    | 2.78 | 194    | 2.56 | 206    | 2.37 | 217    | 2.21 | 226    | 2.0  |
|   | 0  | 51                            | 4.47 | 89     | 3.90 | 120    | 3.51 | 145    | 3.18 | 165    | 2.89 | 182    | 2.66 | 196    | 2.45 | 208    | 2.28 | 219    | 2.13 | 228    | 2.0  |
|   | 10   | 57                            | 4.12 | 94     | 3.68 | 124    | 3.33 | 148    | 3.03 | 168    | 2.77 | 184    | 2.54 | 198    | 2.35 | 210    | 2.19 | 220    | 2.05 | 229    | 1.9  |
|   | 20   | 64                            | 3.86 | 100    | 3.51 | 128    | 3.16 | 152    | 2.89 | 171    | 2.65 | 187    | 2.44 | 200    | 2.25 | 212    | 2.10 | 222    | 1.97 | 230    | 1.8  |
|   | 30   | 72                            | 3.68 | 106    | 3.33 | 134    | 3.04 | 156    | 2.76 | 174    | 2.52 | 190    | 2.34 | 202    | 2.16 | 214    | 2.02 | 224    | 1.89 | 232    | 1.77 |
|   | 40   | 80                            | 3.51 | 113    | 3.20 | 139    | 2.89 | 160    | 2.63 | 178    | 2.42 | 192    | 2.22 | 205    | 2.07 | 216    | 1.93 | 226    | 1.81 | 234    | 1.71 |
|   | 50   | 88                            | 3.33 | 119    | 3.02 | 144    | 2.74 | 164    | 2.50 | 182    | 2.32 | 196    | 2.13 | 208    | 1.98 | 218    | 1.84 | 228    | 1.73 | 236    | 1.63 |
|   | 60   | 96                            | 3.16 | 126    | 2.89 | 150    | 2.63 | 169    | 2.39 | 185    | 2.19 | 199    | 2.03 | 210    | 1.88 | 221    | 1.76 | 230    | 1.66 | 238    | 1.56 |
|   | 70   | 106                           | 3.07 | 132    | 2.72 | 155    | 2.48 | 174    | 2.28 | 189    | 2.05 | 202    | 1.93 | 213    | 1.79 | 223    | 1.68 | 234    | 1.60 | 240    | 1.46 |
| 1000  | —40  | 20                            | 6.57 | 61     | 5.55 | 95     | 4.93 | 122    | 4.44 | 145    | 4.05 | 164    | 3.72 | 179    | 3.43 | 193    | 3.19 | 205    | 3.04 | 216    | 2.81 |
|   | —30  | 26                            | 6.14 | 66     | 5.26 | 99     | 4.71 | 125    | 4.25 | 148    | 3.90 | 166    | 3.58 | 181    | 3.30 | 195    | 3.08 | 206    | 2.87 | 217    | 2.71 |
|   | —20  | 33                            | 5.80 | 71     | 4.98 | 103    | 4.49 | 129    | 4.08 | 150    | 3.72 | 168    | 3.43 | 183    | 3.18 | 197    | 2.97 | 208    | 2.77 | 218    | 2.61 |
|   | —10  | 39                            | 5.37 | 77     | 4.76 | 107    | 4.27 | 133    | 3.92 | 153    | 3.57 | 170    | 3.28 | 186    | 3.04 | 198    | 2.85 | 210    | 2.68 | 220    | 2.55 |
|   | 0  | 46                            | 5.04 | 82     | 4.49 | 112    | 4.09 | 136    | 3.72 | 156    | 3.42 | 174    | 3.17 | 188    | 2.94 | 200    | 2.74 | 212    | 2.58 | 221    | 2.42 |
|   | 10   | 54                            | 4.82 | 88     | 4.27 | 117    | 3.91 | 141    | 3.59 | 160    | 3.28 | 176    | 3.03 | 190    | 2.82 | 203    | 2.64 | 213    | 2.47 | 223    | 2.33 |
|   | 20   | 61                            | 4.49 | 95     | 4.10 | 122    | 3.72 | 145    | 3.42 | 164    | 3.15 | 179    | 2.90 | 193    | 2.71 | 205    | 2.53 | 216    | 2.39 | 224    | 2.22 |
|   | 30   | 70                            | 4.38 | 102    | 3.94 | 128    | 3.58 | 149    | 3.26 | 167    | 3.00 | 182    | 2.77 | 196    | 2.60 | 208    | 2.44 | 218    | 2.29 | 226    | 2.11 |
|   | 40   | 78                            | 4.16 | 108    | 3.72 | 133    | 3.40 | 154    | 3.12 | 171    | 2.87 | 186    | 2.66 | 199    | 2.49 | 210    | 2.33 | 220    | 2.19 | 228    | 2.06 |
|   | 50   | 86                            | 3.94 | 115    | 3.56 | 139    | 3.25 | 158    | 2.96 | 175    | 2.74 | 189    | 2.54 | 202    | 2.38 | 213    | 2.23 | 222    | 2.09 | 230    | 1.97 |
|   | 60   | 94                            | 3.72 | 121    | 3.34 | 144    | 3.07 | 163    | 2.82 | 178    | 2.58 | 193    | 2.43 | 204    | 2.25 | 215    | 2.12 | 224    | 2.00 | 232    | 1.88 |
|   | 70   | 102                           | 3.50 | 128    | 3.17 | 150    | 2.92 | 168    | 2.68 | 183    | 2.47 | 196    | 2.30 | 208    | 2.16 | 218    | 2.03 | 226    | 1.91 | 234    | 1.80 |

\* Final temperature of air leaving heater.

† Condensation in pounds per square foot of heating surface per hour.

# Sturtevant Heaters—Return Bend Type

Final Temperatures and Condensations

Steam Pressure  
80 Pounds Gauge

Steam Temperature  
324° F.

| Velocity through Heater<br>in Feet per minute<br>at 85 Degrees F. | Temperature of<br>Entering Air<br>Degrees F. | Number of 4-Row Sections Deep |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |     |
|---|--|-------------------------------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|-----|
|   |  | 1                             |      | 2      |      | 3      |      | 4      |      | 5      |      | 6      |      | 7      |      | 8      |      | 9      |      | 10     |     |
|   |  | F. T.*                        | C.†  | F. T.* | C.†  | F. T.* | C.†  | F. T.* | C.†  | F. T.* | C.†  | F. T.* | C.†  | F. T.* | C.†  | F. T.* | C.†  | F. T.* | C.†  | F. T.* | C.† |
| 1200  | —40  | 12                            | 6.84 | 52     | 6.02 | 85     | 5.47 | 113    | 5.01 | 135    | 4.60 | 155    | 4.27 | 171    | 3.96 | 185    | 3.70 | 197    | 3.46 | 207    | 3.2 |
|   | —30  | 20                            | 6.58 | 59     | 5.85 | 91     | 5.30 | 117    | 4.83 | 139    | 4.44 | 158    | 4.12 | 174    | 3.83 | 187    | 3.57 | 199    | 3.34 | 209    | 3.1 |
|   | —20  | 27                            | 6.18 | 64     | 5.52 | 95     | 5.04 | 121    | 4.63 | 142    | 4.26 | 161    | 3.96 | 176    | 3.68 | 189    | 3.44 | 200    | 3.21 | 210    | 3.0 |
|   | —10  | 35                            | 5.91 | 71     | 5.32 | 101    | 4.86 | 125    | 4.43 | 146    | 4.10 | 164    | 3.81 | 179    | 3.55 | 191    | 3.30 | 202    | 3.09 | 212    | 2.9 |
|   | 0  | 42                            | 5.52 | 77     | 5.06 | 106    | 4.65 | 129    | 4.23 | 149    | 3.92 | 167    | 3.66 | 181    | 3.40 | 194    | 3.19 | 204    | 2.98 | 214    | 2.8 |
|   | 10   | 50                            | 5.26 | 84     | 4.86 | 112    | 4.47 | 134    | 4.07 | 154    | 3.78 | 171    | 3.52 | 184    | 3.27 | 196    | 3.06 | 207    | 2.88 | 216    | 2.7 |
|   | 20   | 59                            | 5.12 | 91     | 4.66 | 117    | 4.25 | 139    | 3.91 | 158    | 3.63 | 174    | 3.37 | 187    | 3.14 | 199    | 2.94 | 209    | 2.76 | 218    | 2.6 |
|   | 30   | 67                            | 4.86 | 98     | 4.47 | 123    | 4.07 | 144    | 3.74 | 162    | 3.47 | 177    | 3.22 | 190    | 3.01 | 201    | 2.81 | 211    | 2.64 | 220    | 2.5 |
|   | 40   | 75                            | 4.60 | 105    | 4.27 | 128    | 3.86 | 149    | 3.58 | 167    | 3.34 | 181    | 3.09 | 193    | 2.88 | 204    | 2.70 | 214    | 2.54 | 222    | 2.3 |
|   | 50   | 84                            | 4.47 | 112    | 4.07 | 134    | 3.68 | 154    | 3.41 | 171    | 3.18 | 184    | 2.93 | 196    | 2.74 | 207    | 2.58 | 216    | 2.42 | 225    | 2.3 |
|   | 60   | 92                            | 4.21 | 118    | 3.80 | 139    | 3.46 | 158    | 3.22 | 174    | 3.00 | 187    | 2.78 | 199    | 2.61 | 209    | 2.45 | 218    | 2.31 | 227    | 2.1 |
|   | 70   | 100                           | 3.94 | 124    | 3.55 | 145    | 3.28 | 164    | 3.09 | 178    | 2.84 | 191    | 2.65 | 202    | 2.48 | 212    | 2.33 | 220    | 2.19 | 229    | 2.0 |
| 1500  | —40  | 5                             | 7.40 | 41     | 6.66 | 70     | 6.04 | 96     | 5.59 | 119    | 5.27 | 138    | 4.88 | 154    | 4.56 | 168    | 4.28 | 181    | 4.04 | 192    | 3.8 |
|   | —30  | 13                            | 7.08 | 48     | 6.42 | 76     | 5.82 | 101    | 5.39 | 123    | 5.04 | 141    | 4.69 | 157    | 4.40 | 171    | 4.14 | 183    | 3.90 | 194    | 3.6 |
|   | —20  | 20                            | 6.58 | 54     | 6.09 | 81     | 5.54 | 106    | 5.18 | 127    | 4.84 | 144    | 4.50 | 160    | 4.23 | 174    | 3.99 | 186    | 3.77 | 196    | 3.4 |
|   | —10  | 28                            | 6.26 | 60     | 5.76 | 87     | 5.32 | 111    | 4.97 | 131    | 4.64 | 148    | 4.34 | 163    | 4.07 | 176    | 3.83 | 188    | 3.62 | 199    | 3.4 |
|   | 0  | 37                            | 6.09 | 67     | 5.51 | 93     | 5.10 | 116    | 4.77 | 135    | 4.45 | 152    | 4.17 | 167    | 3.93 | 180    | 3.70 | 191    | 3.40 | 201    | 3.3 |
|   | 10   | 45                            | 5.76 | 74     | 5.26 | 100    | 4.94 | 122    | 4.61 | 140    | 4.28 | 156    | 4.00 | 171    | 3.79 | 183    | 3.56 | 194    | 3.37 | 204    | 3.1 |
|   | 20   | 54                            | 5.60 | 81     | 5.02 | 106    | 4.72 | 127    | 4.40 | 144    | 4.08 | 160    | 3.84 | 174    | 3.62 | 186    | 3.42 | 196    | 3.22 | 206    | 3.0 |
|   | 30   | 62                            | 5.26 | 88     | 4.77 | 112    | 4.50 | 132    | 4.20 | 149    | 3.92 | 164    | 3.68 | 177    | 3.46 | 189    | 3.27 | 200    | 3.11 | 209    | 2.9 |
|   | 40   | 70                            | 4.94 | 96     | 4.61 | 118    | 4.28 | 137    | 3.99 | 153    | 3.72 | 168    | 3.51 | 181    | 3.32 | 192    | 3.13 | 202    | 2.96 | 211    | 2.8 |
|   | 50   | 78                            | 4.61 | 103    | 4.36 | 125    | 4.11 | 142    | 3.78 | 158    | 3.56 | 172    | 3.35 | 184    | 3.15 | 195    | 2.98 | 205    | 2.83 | 214    | 2.7 |
|   | 60   | 87                            | 4.44 | 111    | 4.20 | 131    | 3.89 | 148    | 3.62 | 163    | 3.39 | 176    | 3.18 | 188    | 3.01 | 199    | 2.86 | 208    | 2.71 | 217    | 2.5 |
|   | 70   | 96                            | 4.28 | 118    | 3.95 | 137    | 3.67 | 153    | 3.42 | 168    | 3.23 | 181    | 3.05 | 192    | 2.87 | 202    | 2.72 | 211    | 2.58 | 220    | 2.4 |
| 1800  | —40  | 0                             | 7.88 | 33     | 7.20 | 63     | 6.77 | 88     | 6.31 | 110    | 5.92 | 128    | 5.52 | 145    | 5.21 | 160    | 4.93 | 173    | 4.67 | 185    | 4.4 |
|   | —30  | 8                             | 7.49 | 41     | 7.00 | 70     | 6.57 | 93     | 6.06 | 114    | 5.68 | 132    | 5.32 | 148    | 5.01 | 163    | 4.76 | 176    | 4.51 | 187    | 4.2 |
|   | —20  | 17                            | 7.29 | 48     | 6.70 | 76     | 6.31 | 99     | 5.86 | 119    | 5.48 | 137    | 5.18 | 152    | 4.85 | 166    | 4.59 | 179    | 4.36 | 190    | 4.1 |
|   | —10  | 25                            | 6.90 | 56     | 6.51 | 82     | 6.04 | 104    | 5.62 | 124    | 5.28 | 141    | 4.96 | 156    | 4.68 | 170    | 4.44 | 182    | 4.21 | 192    | 3.9 |
|   | 0  | 33                            | 6.50 | 63     | 6.21 | 88     | 5.78 | 110    | 5.42 | 128    | 5.02 | 145    | 4.76 | 160    | 4.51 | 173    | 4.27 | 185    | 4.05 | 195    | 3.8 |
|   | 10   | 42                            | 6.31 | 71     | 6.01 | 94     | 5.52 | 115    | 5.18 | 133    | 4.85 | 150    | 4.60 | 164    | 4.34 | 177    | 4.12 | 188    | 3.90 | 198    | 3.7 |
|   | 20   | 51                            | 6.11 | 78     | 5.72 | 101    | 5.32 | 121    | 4.98 | 138    | 4.65 | 144    | 4.40 | 168    | 4.17 | 180    | 3.95 | 191    | 3.75 | 200    | 3.5 |
|   | 30   | 60                            | 5.91 | 86     | 5.52 | 108    | 5.12 | 126    | 4.73 | 143    | 4.46 | 158    | 4.20 | 172    | 4.00 | 183    | 3.77 | 194    | 3.59 | 203    | 3.4 |
|   | 40   | 69                            | 5.72 | 93     | 5.22 | 114    | 4.86 | 132    | 4.53 | 148    | 4.26 | 163    | 4.04 | 176    | 3.83 | 187    | 3.62 | 197    | 3.44 | 206    | 3.2 |
|   | 50   | 77                            | 5.32 | 100    | 4.93 | 120    | 4.60 | 138    | 4.34 | 153    | 4.06 | 167    | 3.84 | 179    | 3.63 | 190    | 3.45 | 200    | 3.37 | 209    | 3.1 |
|   | 60   | 86                            | 5.12 | 108    | 4.73 | 126    | 4.34 | 143    | 4.09 | 158    | 3.86 | 172    | 3.68 | 183    | 3.46 | 194    | 3.30 | 203    | 3.13 | 212    | 3.0 |
|   | 70   | 93                            | 4.53 | 114    | 4.34 | 133    | 4.14 | 149    | 3.89 | 163    | 3.67 | 176    | 3.48 | 187    | 3.29 | 197    | 3.13 | 206    | 2.98 | 215    | 2.9 |

Final temperature of air leaving heater.

† Condensation in pounds per square foot of heating surface per hour.



# Sturtevant Heaters—Mitre Type

Hot Water  
Circulation

Final Temperatures

Water Temperature  
180° F.

## Number of 4-Row Sections Deep

| Temperature of<br>Entering Air<br>Degrees F. | 600 ‡  |        |        |        |        |        |        | Temperature of<br>Entering Air<br>Degrees F. | 800 ‡  |        |        |        |        |        |        |
|--|--------|--------|--------|--------|--------|--------|--------|--|--------|--------|--------|--------|--------|--------|--------|
|  | 1      | 2      | 3      | 4      | 5      | 6      | 7      |  | 1      | 2      | 3      | 4      | 5      | 6      | 7      |
|  | F. T.* | F. T.* | F. T.* | F. T.* | F. T.* | F. T.* | F. T.* |  | F. T.* | F. T.* | F. T.* | F. T.* | F. T.* | F. T.* | F. T.* |
| -40  | 7      | 39     | 62     | 81     | 95     | 107    | 117    | -40  | 3      | 33     | 57     | 75     | 90     | 101    | 112    |
| -30  | 13     | 43     | 66     | 84     | 98     | 109    | 118    | -30  | 10     | 39     | 61     | 78     | 92     | 104    | 114    |
| -20  | 20     | 48     | 70     | 87     | 100    | 111    | 120    | -20  | 17     | 44     | 65     | 82     | 95     | 106    | 116    |
| -10  | 27     | 53     | 74     | 90     | 102    | 113    | 122    | -10  | 24     | 50     | 69     | 85     | 98     | 108    | 117    |
| 0  | 34     | 59     | 78     | 93     | 105    | 115    | 123    | 0  | 31     | 55     | 74     | 88     | 101    | 111    | 119    |
| 10   | 41     | 64     | 82     | 96     | 108    | 118    | 126    | 10   | 39     | 61     | 78     | 92     | 104    | 114    | 122    |
| 20   | 48     | 70     | 87     | 100    | 111    | 120    | 127    | 20   | 47     | 67     | 83     | 96     | 107    | 116    | 124    |
| 30   | 56     | 76     | 92     | 104    | 114    | 122    | 129    | 30   | 54     | 73     | 88     | 100    | 110    | 119    | 126    |
| 40   | 64     | 82     | 96     | 108    | 118    | 126    | 133    | 40   | 62     | 79     | 93     | 104    | 114    | 122    | 129    |
| 50   | 71     | 88     | 101    | 112    | 121    | 128    | 134    | 50   | 69     | 85     | 98     | 108    | 117    | 125    | 131    |
| 60   | 79     | 94     | 106    | 116    | 124    | 131    | 137    | 60   | 78     | 91     | 103    | 113    | 121    | 128    | 134    |
| 70   | 87     | 100    | 111    | 120    | 127    | 133    | 138    | 70   | 85     | 98     | 109    | 118    | 125    | 131    | 137    |

| 1000 ‡ |    |    |     |     |     |     |     | 1200 ‡ |    |    |     |     |     |     |     |
|--------|----|----|-----|-----|-----|-----|-----|--------|----|----|-----|-----|-----|-----|-----|
| -40    | 0  | 29 | 53  | 70  | 85  | 97  | 108 | -40    | -3 | 25 | 47  | 65  | 80  | 93  | 103 |
| -30    | 6  | 34 | 56  | 74  | 88  | 99  | 110 | -30    | 3  | 30 | 51  | 69  | 83  | 95  | 105 |
| -20    | 14 | 40 | 61  | 77  | 91  | 102 | 112 | -20    | 11 | 36 | 56  | 73  | 86  | 98  | 108 |
| -10    | 21 | 46 | 65  | 81  | 94  | 105 | 114 | -10    | 20 | 43 | 62  | 77  | 90  | 101 | 110 |
| 0      | 29 | 53 | 70  | 85  | 97  | 108 | 117 | 0      | 27 | 49 | 67  | 81  | 94  | 104 | 113 |
| 10     | 37 | 58 | 75  | 89  | 101 | 111 | 119 | 10     | 35 | 55 | 72  | 86  | 97  | 107 | 115 |
| 20     | 45 | 65 | 80  | 93  | 104 | 113 | 121 | 20     | 43 | 62 | 77  | 90  | 101 | 110 | 118 |
| 30     | 53 | 71 | 85  | 98  | 108 | 117 | 124 | 30     | 51 | 69 | 83  | 95  | 105 | 114 | 121 |
| 40     | 60 | 77 | 90  | 102 | 112 | 120 | 127 | 40     | 59 | 75 | 89  | 100 | 109 | 117 | 124 |
| 50     | 69 | 83 | 96  | 107 | 116 | 123 | 130 | 50     | 67 | 82 | 94  | 104 | 113 | 121 | 127 |
| 60     | 77 | 90 | 102 | 112 | 120 | 127 | 133 | 60     | 76 | 89 | 100 | 109 | 117 | 124 | 130 |
| 70     | 85 | 97 | 108 | 117 | 124 | 130 | 136 | 70     | 84 | 96 | 106 | 115 | 122 | 128 | 134 |

| 1500 ‡ |    |    |     |     |     |     |     | 1800 ‡ |    |    |     |     |     |     |     |
|--------|----|----|-----|-----|-----|-----|-----|--------|----|----|-----|-----|-----|-----|-----|
| -40    | -6 | 20 | 41  | 59  | 74  | 86  | 97  | -40    | -9 | 16 | 37  | 55  | 69  | 82  | 93  |
| -30    | 1  | 25 | 46  | 63  | 77  | 89  | 100 | -30    | -1 | 22 | 42  | 59  | 73  | 85  | 96  |
| -20    | 8  | 32 | 51  | 67  | 81  | 93  | 103 | -20    | 6  | 29 | 48  | 63  | 77  | 89  | 99  |
| -10    | 17 | 38 | 57  | 72  | 85  | 96  | 106 | -10    | 15 | 36 | 54  | 69  | 81  | 93  | 103 |
| 0      | 25 | 45 | 62  | 77  | 89  | 99  | 108 | 0      | 23 | 43 | 59  | 74  | 86  | 96  | 105 |
| 10     | 33 | 52 | 68  | 82  | 93  | 103 | 111 | 10     | 32 | 50 | 66  | 79  | 91  | 101 | 110 |
| 20     | 41 | 59 | 74  | 86  | 97  | 106 | 114 | 20     | 40 | 58 | 72  | 84  | 95  | 104 | 112 |
| 30     | 50 | 66 | 80  | 92  | 102 | 111 | 118 | 30     | 49 | 65 | 78  | 90  | 100 | 109 | 116 |
| 40     | 58 | 73 | 86  | 97  | 106 | 115 | 122 | 40     | 57 | 71 | 84  | 95  | 104 | 112 | 119 |
| 50     | 66 | 80 | 92  | 102 | 111 | 118 | 125 | 50     | 65 | 79 | 90  | 100 | 109 | 116 | 123 |
| 60     | 75 | 87 | 98  | 107 | 115 | 122 | 128 | 60     | 74 | 86 | 97  | 106 | 114 | 121 | 127 |
| 70     | 83 | 95 | 105 | 113 | 120 | 126 | 132 | 70     | 83 | 94 | 103 | 111 | 118 | 124 | 130 |

\* Final temperature of air leaving heater.

‡ Velocity through heater in feet per minute at 65 Degrees F.

## Sizes of Steam Pipes for Sturtevant Heaters

| Pounds of<br>Steam<br>Condensed<br>Per Hour | Steam Pressure |        |          |        |           |        |
|---|----------------|--------|----------|--------|-----------|--------|
|   | 0 Pounds       |        | 5 Pounds |        | 80 Pounds |        |
|   | Supply         | Return | Supply   | Return | Supply    | Return |
| 50  | 1.5            | 1.00   | 1.25     | 1.00   | 1.00      | 0.75   |
| 100   | 2.0            | 1.25   | 1.5      | 1.00   | 1.00      | 0.75   |
| 150   | 2.5            | 1.5    | 2.0      | 1.25   | 1.25      | 1.00   |
| 200   | 2.5            | 1.5    | 2.0      | 1.25   | 1.25      | 1.00   |
| 250   | 3.0            | 2.0    | 2.5      | 1.5    | 1.25      | 1.00   |
| 300   | 3.0            | 2.0    | 2.5      | 1.5    | 1.25      | 1.00   |
| 350   | 3.0            | 2.0    | 2.5      | 1.5    | 1.5       | 1.00   |
| 400   | 3.5            | 2.0    | 3.0      | 2.0    | 2.0       | 1.25   |
| 450   | 3.5            | 2.0    | 3.0      | 2.0    | 2.0       | 1.25   |
| 500   | 3.5            | 2.0    | 3.0      | 2.0    | 2.0       | 1.25   |
| 600   | 4.0            | 2.0    | 3.0      | 2.0    | 2.0       | 1.25   |
| 700   | 4.0            | 2.0    | 3.5      | 2.0    | 2.0       | 1.25   |
| 800   | 4.5            | 2.5    | 3.5      | 2.0    | 2.0       | 1.25   |
| 900   | 4.5            | 2.5    | 3.5      | 2.0    | 2.5       | 1.5    |
| 1000  | 4.5            | 2.5    | 4.0      | 2.0    | 2.5       | 1.5    |
| 1250  | 5              | 2.5    | 4.0      | 2.0    | 2.5       | 1.5    |
| 1500  | 6              | 3.0    | 4.5      | 2.5    | 2.5       | 1.5    |
| 1750  | 6              | 3.0    | 4.5      | 2.5    | 3.0       | 2.0    |
| 2000  | 6              | 3.0    | 5        | 2.5    | 3.0       | 2.0    |
| 2250  | 6              | 3.0    | 5        | 2.5    | 3.0       | 2.0    |
| 2500  | 7              | 3.5    | 6        | 3.0    | 3.0       | 2.0    |
| 2750  | 7              | 3.5    | 6        | 3.0    | 3.5       | 2.0    |
| 3000  | 7              | 3.5    | 6        | 3.0    | 3.5       | 2.0    |
| 3250  | 7              | 3.5    | 6        | 3.0    | 3.5       | 2.0    |
| 3500  | 8              | 4.0    | 6        | 3.0    | 3.5       | 2.0    |
| 3750  | 8              | 4.0    | 6        | 3.0    | 3.5       | 2.0    |
| 4000  | 8              | 4.0    | 7        | 3.5    | 4.0       | 2.0    |
| 4250  | 8              | 4.0    | 7        | 3.5    | 4.0       | 2.0    |
| 4500  | 8              | 4.0    | 7        | 3.5    | 4.0       | 2.0    |
| 4750  | 8              | 4.0    | 7        | 3.5    | 4.0       | 2.0    |
| 5000  | 9              | 4.5    | 7        | 3.5    | 4.0       | 2.0    |
| 5250  | 9              | 4.5    | 7        | 3.5    | 4.0       | 2.0    |
| 5500  | 9              | 4.5    | 7        | 3.5    | 4.0       | 2.0    |
| 5750  | 9              | 4.5    | 7        | 3.5    | 4.0       | 2.0    |
| 6000  | 9              | 4.5    | 7        | 3.5    | 4.5       | 2.5    |
| 7000  | 10             | 5      | 8        | 4.0    | 4.5       | 2.5    |
| 8000  | 10             | 5      | 8        | 4.0    | 4.5       | 2.5    |
| 9000  | 10             | 5      | 9        | 4.5    | 5         | 2.5    |
| 10000                                       | 12             | 6      | 9        | 4.5    | 5         | 2.5    |
| 11000                                       | 12             | 6      | 9        | 4.5    | 6         | 3      |
| 12000                                       | 12             | 6      | 10       | 5      | 6         | 3      |
| 13000                                       | 12             | 6      | 10       | 5      | 6         | 3      |
| 14000                                       | 12             | 6      | 10       | 5      | 6         | 3      |

## Friction Loss through Sturtevant Heaters

Friction in inches of water. Volumes of air and friction effect  
taken with air at 65° F.

Outside Diameter 1" Pipe—1.281"

Outside Diameter 1½" Pipe—1.660"

| Velocity through<br>free area of heater<br>feet per minute | Number of<br>Rows in<br>Heater | 1" Pipe †<br>2½" Centres | 1½" Pipe ‡<br>2½" Centres | 1" Pipe §<br>2½" Centres | 1" Pipe *<br>2½" Centres |
|--|--------------------------------|--------------------------|---------------------------|--------------------------|--------------------------|
| 600  | 8                              | .06                      | .06                       | .04                      | .04                      |
|  | 16                             | .09                      | .09                       | .06                      | .06                      |
|  | 24                             | .12                      | .13                       | .08                      | .08                      |
|  | 32                             | .15                      | .17                       | .11                      | .11                      |
| 800  | 8                              | .10                      | .10                       | .07                      | .07                      |
|  | 16                             | .16                      | .16                       | .10                      | .10                      |
|  | 24                             | .22                      | .23                       | .14                      | .14                      |
|  | 32                             | .27                      | .30                       | .19                      | .19                      |
| 1000   | 8                              | .16                      | .16                       | .11                      | .11                      |
|  | 16                             | .25                      | .25                       | .16                      | .16                      |
|  | 24                             | .34                      | .36                       | .23                      | .23                      |
|  | 32                             | .43                      | .47                       | .29                      | .29                      |
| 1200   | 8                              | .21                      | .23                       | .16                      | .15                      |
|  | 16                             | .35                      | .38                       | .24                      | .23                      |
|  | 24                             | .49                      | .53                       | .33                      | .31                      |
|  | 32                             | .63                      | .69                       | .42                      | .39                      |
| 1500   | 8                              | .33                      | .36                       | .25                      | .23                      |
|  | 16                             | .55                      | .59                       | .38                      | .36                      |
|  | 24                             | .77                      | .83                       | .52                      | .49                      |
|  | 32                             | .99                      | 1.08                      | .66                      | .62                      |
| 1800   | 8                              | .48                      | .51                       | .36                      | .34                      |
|  | 16                             | .79                      | .85                       | .56                      | .52                      |
|  | 24                             | 1.10                     | 1.20                      | .75                      | .70                      |
|  | 32                             | 1.42                     | 1.55                      | .95                      | .87                      |
| 2100   | 8                              | .65                      | .70                       | .49                      | .47                      |
|  | 16                             | 1.08                     | 1.17                      | .76                      | .71                      |
|  | 24                             | 1.50                     | 1.64                      | 1.03                     | .96                      |
|  | 32                             | 1.94                     | 2.11                      | 1.30                     | 1.20                     |

† Refers to Sturtevant or Regular, London and Mitre Types.

‡ Refers to Sturtevant Heaters of Mitre Type.

§ Refers to use of 1" pipe in base of 1½" Mitre Heater Section.

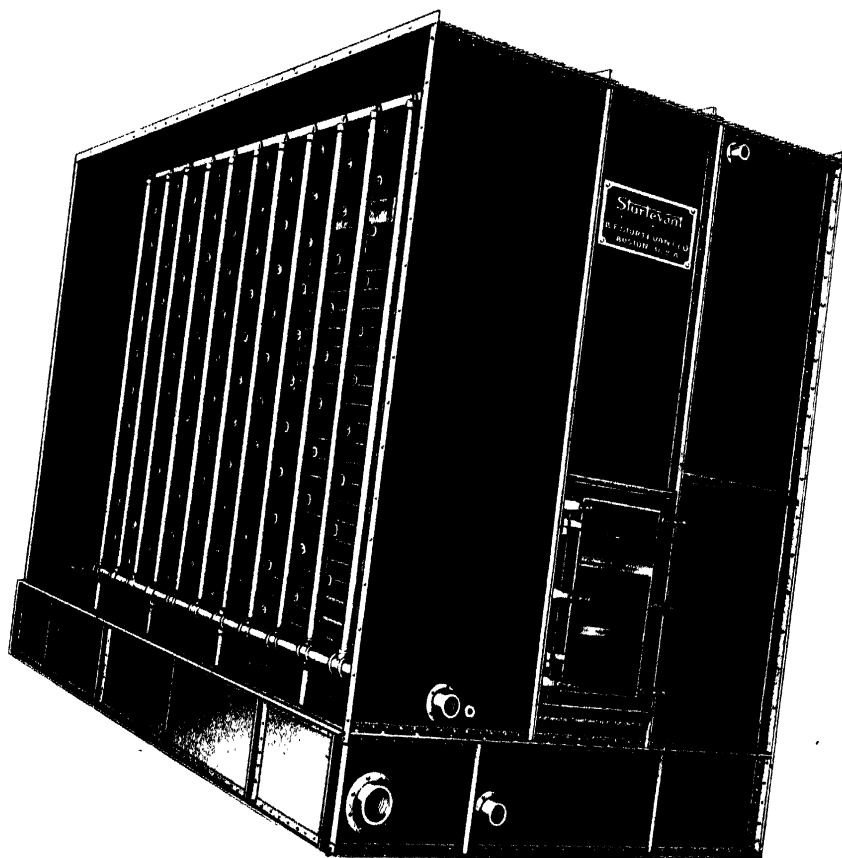
\* Refers to Sturtevant Heaters of Return Bend Type.

# **STURTEVANT AIR WASHERS**

## **Types "H," "C" and "S"**

**Dimensions — Capacities**

## Sturtevant Air Washer—Type "H"



Sturtevant Type "H" Air Washer

# STURTEVANT AIR WASHER—TYPE "H"

## SPECIFICATIONS

**General.** There shall be furnished a ..... by ..... size, type "H" Sturtevant Air Washer. The width of the washer shall be ..... feet ..... inches by a height ..... feet ..... inches. The length of the washer in direction of flow of air shall be 7 feet 0 inches.

The air washer shall have a capacity of ..... cubic feet of air per minute at a velocity of ..... feet per minute.

**Tank.** The tank shall be constructed of galvanized steel firmly braced and riveted to a rigid frame of galvanized angle irons. The plates of the tank shall be of No. 14 gauge, the angle irons shall be  $1\frac{1}{2}$ " by  $1\frac{1}{2}$ " by 3-16", and shall be spaced not more than 3 feet apart. The top framing angles are to be punched 5" on centers for 3-8" bolts to secure the casing of the spray chamber to the tank. All rivet heads and seams shall be soldered over to make the tank watertight. The tank shall be fitted with a conical shaped overflow and trap which shall carry away the surplus water. The trap shall be provided to prevent the admission of sewer gas from the drain to the spray chamber.

**Casing.** The casing of the washer shall be made of No. 18 galvanized steel thoroughly braced with  $1\frac{1}{2}$ " by  $1\frac{1}{2}$ " by 3-16" galvanized angle irons, spaced not more than 3 feet on centers. The seams and rivet heads are to be soldered so as to make the casing watertight. The casing shall be fitted with a 18" x 30" hinged door for access to spray chamber. This door shall consist of a rigid cast iron frame fitted with three glass panels. The door shall be hung on heavy hinges and shall clamp against a heavy rubber gasket inserted in the frame that carries the door. To make the door watertight, it shall be provided with six latches operating with a cam motion. The frame shall be arranged to collect any water that may drip from the door, and return same to tank, should the door be left unclamped.

**Eliminators.** There shall be provided eliminator plates to remove the entrained moisture from the air after it has passed through the spray chamber. These eliminators shall be of the horizontal cut-lip type, arranged in tiers of not more than five foot widths. The plates shall be not lighter than 22 gauge steel and shall be galvanized after they have been cut and formed to shape. The plates are to be so arranged that a large part of the surface will become a washing surface for the removal of dust that impinges upon them. The eliminators shall consist of one group in the direction of the flow of air and be so arranged that the passage way between two plates shall be continuous.

**Spray Device.** The spray device shall consist of a horizontal header placed across the bottom of the spray chamber and fitted with vertical risers so placed as to bring the spray nozzles, secured to the risers, in a plane parallel to and at a distance of 48" in front of the eliminators. The upper ends of the risers shall be capped with a special cap that will permit fastening to a galvanized angle iron across the top of the spray chamber, thus holding the risers securely in line. There shall be not less than one atomizing nozzle for each 400 cubic feet of air washed per minute. The nozzles shall be constructed entirely of bronze and shall have large water ways to prevent clogging of the nozzles by sediment carried in the water. The nozzle openings shall be not less than 3-16" in diameter, and shall discharge not more than  $1\frac{1}{4}$  gals. per minute with 19 pounds pressure per square inch. All piping and fittings shall be heavily galvanized. For washers of 8' height and under, 1" risers shall be used; for washers over 8' in height,  $1\frac{1}{4}$ " risers shall be used.

**In addition** to the atomizing nozzles, there shall be furnished a spray pipe across the top of the spray chamber adjacent to the eliminator plates. These nozzles shall be of the rain-spray type, shall be placed 6" on centers and shall have capacity to wash each foot of width of the eliminators with not less than five gallons of water per minute.

**Strainer.** The straining device shall consist of a compartment extending the full width of the tank and shall be fitted with fine mesh copper wire screens arranged for easy removal for cleaning. There shall be two square feet of strainer area for each foot in width of the tank. The top of the compartment shall be closed with hinged doors to prevent dirt washed from the air falling into it.

**Diffuser Plates.** Across the front of the spray chamber shall be placed a series of louvre like diffuser plates to eliminate eddy currents and to prevent back splash of the spray washer. The washer shall be so designed that when the fan is not in operation, the spray water will be entirely retained within the spray chamber when the pump is running.

**Pump and Motor.** For recirculating the spray water, there shall be furnished a ..... centrifugal pump of the double suction, split casing type. The pump to be furnished with a bronze impeller, bronze covered steel shaft and bronze bushings. The bearings shall be of the ring oiling type. Heavy cast-iron base shall be furnished upon which to mount the pump and motor. An oil groove shall extend completely around the cast-iron base. The pump will be driven by the motor through an insulated flexible coupling.

The motor shall be of ..... horse power, capacity at ..... R.P.M. and designed to operate on current of the following characteristics:.....

**Accessories.** Where necessary a suitable starter will be furnished with the motor.

A 5" diameter pressure gauge, with white dial and black figures reading to thirty pounds shall be furnished with the washer.

A bronze float for maintaining constant water level in the tank will be furnished with the washer.

The casing shall be fitted with a water-proof marine type fixture ready to receive the electric bulb to be furnished by others.

**Note.** Pipe connections will be fitted to the washers for connecting the pump suction and discharge to the strainer compartment and to the spray headers respectively. The contractor is to furnish between the washer and pump galvanized piping in accordance with the washer manufacturer's drawings.

# STURTEVANT AIR WASHER—TYPE “H”

## EXPLANATION OF SPECIFICATION REQUIREMENTS

**Length of Washer.** For the most efficient humidifying and cooling service, an air washer must be so designed that the air and water will be in intimate contact for a considerable period of time. To accomplish this, in the Sturtevant Type “H” Air Washer, the spray chamber is over five feet long. The nozzles are over four feet from the eliminators and the total length of the washer is seven feet.

**Tank.** The tank of the Sturtevant Washer is constructed of No. 14 gauge metal, which is heavier than the tanks of the washers manufactured by most companies. Experience has proved that the tank should be constructed in an exceptionally rigid manner as it is usually required to contain several thousand pounds of water and in addition to support the chamber of the spray casing.

**Trap.** The running trap inserted in the overflow of the Sturtevant Air Washer tank completely eliminates any possibility of the fan sucking odors and gases from the drain pipe.

**Inspection Door.** The cast-iron door with glass panels fitted to the casing, is of ample size to permit easy access to the spray chamber. The rigid form prevents warping and eliminates the cracking of the glass. The heavy hinges assure that breakage will not occur from slamming of the door or from abuse.

**Eliminators.** The projecting lips of the horizontal lip perforated baffles or eliminators cut the air into many streams bringing all the air into contact with the wet surfaces upon which the dirt in the air is deposited. The open construction of these baffle plates causes them to be continually washed clean and drained.

**Spray Device.** The spray device of the Sturtevant Type “H” Washer consists of not less than one nozzle for every 400 cubic feet of air washed per minute. This guarantees that the spray chamber is filled with a uniform dense spray and assures the thorough wetting of the air. The washing of the eliminators by supplementary nozzles makes certain that the surfaces will be continually wet to cause the adherence of the dust particles.

**Pump.** The recirculating pump is of the double suction enclosed impeller type. It is bronze fitted throughout to give the maximum service and wear. The split casing permits the removal of bearings, shaft or impeller without disturbing the water connection. These pumps are especially rigid and assure permanent alignment and proper operation.

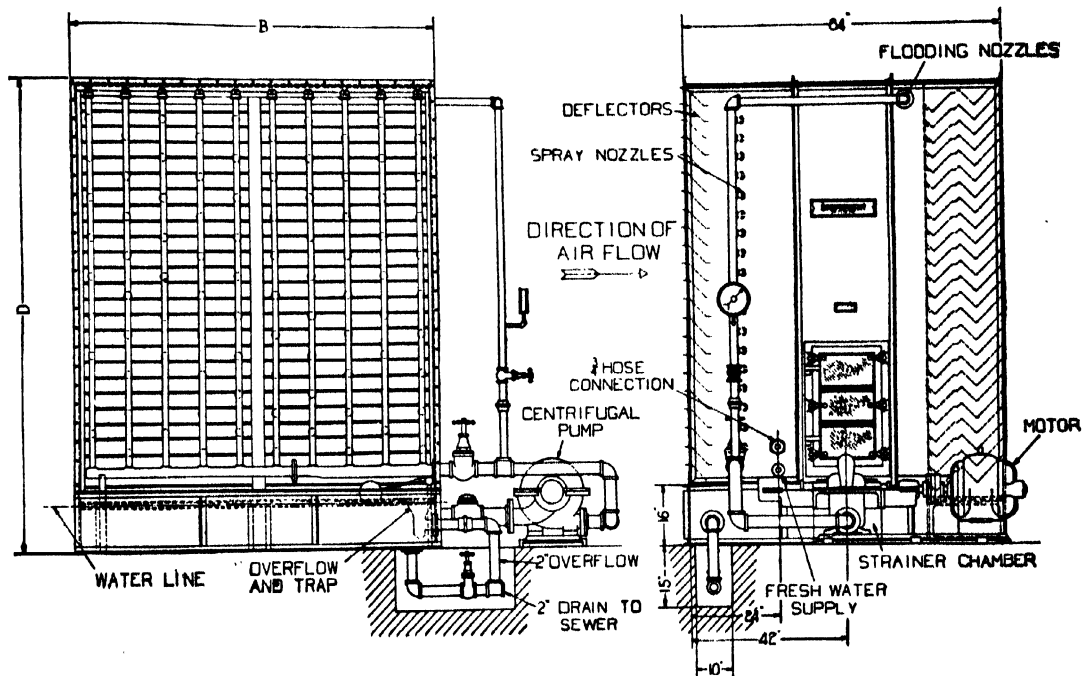
**Lighting Fixture.** The water proof marine type electric fixture insures that the interior of the washer is properly lighted at all times making the inspection easy and thorough.





# Sturtevant Air Washer—Type "H"

## DIMENSIONS



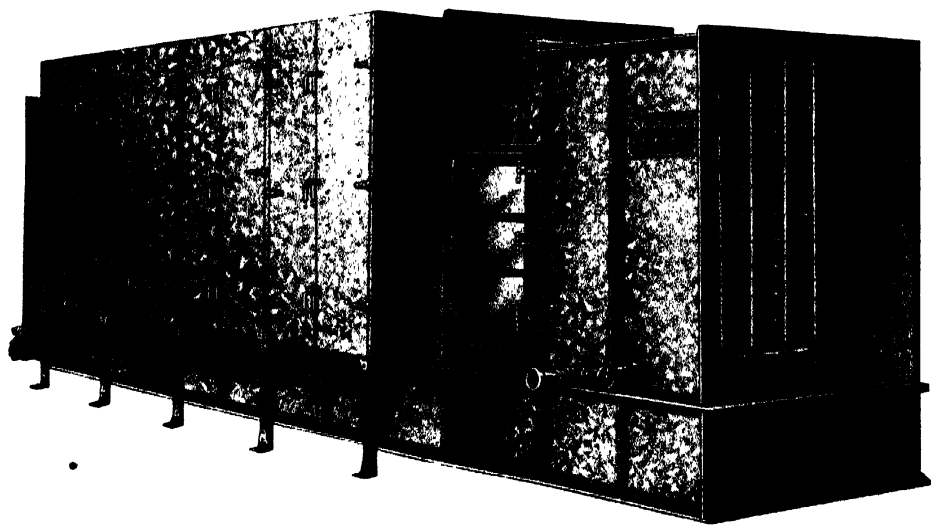
Dimensions B and D are given in third and fourth columns of table on opposite page.

If the pump is placed as indicated above, the additional width required for the pump\* and piping is as follows:

| PUMP DISCHARGE* | MINIMUM ADDITIONAL WIDTH |
|-----------------|--------------------------|
| 1 1/2"          | 2'-6"                    |
| 2"              | 3'-0"                    |
| 2 1/2"          | 3'-6"                    |
| 3"              | 4'-0"                    |
| 4"              | 4'-6"                    |
| 5"              | 5'-0"                    |

\*The size of pump necessary for any size of air washer is given in column 5 of table on opposite page.

## Sturtevant Dehumidifier and Air Cooler

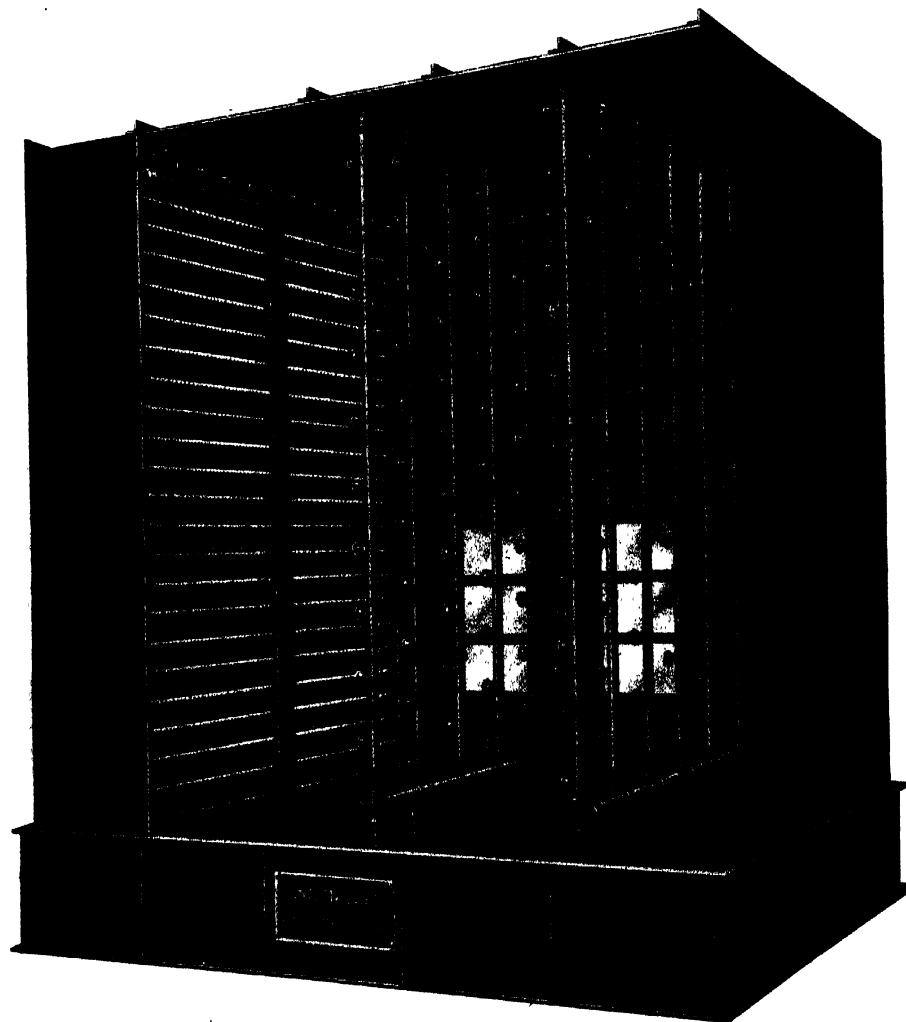


Sturtevant Dehumidifier and Air Cooler

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## Sturtevant Air Washer—Type “C”

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- Sturtevant Type “C” Air Washer with Side and Baffles Removed. Type “H” Air Washer is the same except that it has only one set of spray pipes and one door

# STURTEVANT AIR WASHER—TYPE "C"

## SPECIFICATIONS

**General.** There shall be furnished a . . . . by . . . . size Type "C" Sturtevant Air Washer. The width of the washer shall be . . . . feet . . . . inches by a height . . . . feet . . . . inches. The length of the washer in direction of flow of air shall be 9 feet 0 inches.

The air washer shall have a capacity of . . . . cubic feet of air per minute at a velocity of . . . . feet per minute.

**Tank.** The tank shall be constructed of galvanized steel firmly braced and riveted to a rigid frame of galvanized angle irons. The plates of the tank shall be of No. 14 gauge, the angle irons shall be  $1\frac{1}{2}$ " by  $1\frac{1}{2}$ " by 3-16" and shall be spaced not more than three feet apart. The top framing angles are to be punched 5" on centers for 3-8" bolts to secure the casing of the spray chamber to the tank. All rivet heads and seams shall be soldered over to make the tank water tight. The tank shall be fitted with a conical shaped overflow and trap which shall carry away the surplus water. The trap shall be provided to prevent the admission of sewer gas from the drain to the spray chamber.

**Casing.** The casing of the washer shall be made of No. 18 galvanized steel thoroughly braced with  $1\frac{1}{2}$ " by  $1\frac{1}{2}$ " by 3-16" galvanized angle irons, spaced not more than three feet on centers. The seams and rivet heads are to be soldered so as to make the casing watertight. The casing shall be fitted with two 18" x 30" hinged doors for access to the spray chamber. The doors shall consist of a rigid cast-iron frame fitted with three glass panels and shall be hung on heavy hinges and shall clamp against a heavy rubber gasket inserted in the frame that carries the door. To make the doors watertight, they shall each be provided with six latches operating with a cam motion. The frames shall be arranged to collect any water that may drip from the doors, and return same to tank, should the doors be left unclamped.

**Eliminators.** There shall be provided eliminator plates to remove the entrained moisture from the air after it has passed through the spray chamber. These eliminators shall be of the horizontal cut-lip type, arranged in tiers of not more than five foot widths. The plates shall not be lighter than No. 22 gauge steel and shall be galvanized after they have been cut and formed to shape. The plates are to be so arranged that a large part of the surface will become a washing surface for the removal of dust that impinges upon them. The eliminators shall consist of one group in the direction of the flow of air and be so arranged that the passage way between two plates shall be continuous.

**Spray Device.** The spray device shall consist of two horizontal headers placed across the bottom of the spray chamber and fitted with vertical risers so placed as to bring the spray nozzles, secured to the risers, in planes parallel to and at distances of 39" and 75" in front of the eliminators respectively. The upper ends of the risers shall be capped with a special cap that will permit fastening to a galvanized angle iron across the top of the spray chamber, thus holding the risers securely in line. There shall be not less than one atomizing nozzle for each 200 feet of cubic air washed per minute. The nozzles shall be constructed entirely of bronze and shall have large waterways to prevent clogging of the nozzles by sediment carried in the water. The nozzle openings shall be not less than 3-16" in diameter, and shall discharge not more than  $1\frac{1}{4}$  gallons per minute with 19 pounds pressure per square inch. All piping and fittings shall be heavily galvanized. For washers of 8' height and under, 1" risers shall be used; for washers over 8' in height,  $1\frac{1}{4}$ " risers shall be used. In addition to the atomizing nozzles, there shall be furnished a spray pipe across the top of the spray chamber ad-

ja-cent to the eliminator plates. These nozzles shall be of the rain-spray type, shall be placed 6" on centers and shall have capacity to wash each foot of width of the eliminators with not less than five gallons of water per minute.

**Strainer.** The straining device shall consist of a compartment extending the full width of the tank and shall be fitted with fine mesh copper wire screens arranged for easy removal for cleaning. There shall be two square feet of strainer area for each foot in width of the tank. The top of the compartment shall be closed with hinged doors to prevent dirt washed from the air falling into it.

**Diffuser Plates.** Across the front of the spray chamber shall be placed a series of louvre like diffuser plates to eliminate eddy currents and to prevent back splash of the spray washer. The washer shall be so designed that when the fan is not in operation, the spray water will be entirely retained within the spray chamber when the pump is running.

**Pump and Motor.** For recirculating the spray water there shall be furnished a .....centrifugal pump of the double suction, split casing type. The pump to be furnished with a bronze impeller, bronze covered steel shaft and bronze bushings. The bearings shall be of the ring oiling type. Heavy cast-iron base shall be furnished upon which to mount the pump and motor. An oil groove shall extend completely around the cast-iron base. The pump will be driven by the motor through an insulated flexible coupling.

The motor shall be of ..... horse power, capacity at ..... R.P.M. and designed to operate on a current of the following characteristics:.....

**Accessories.** Where necessary a suitable starter shall be furnished with the motor.

A 5" diameter pressure gauge, with white dial and black figures reading to thirty pounds shall be furnished with the washer.

A bronze float for maintaining constant water level in the tank will be furnished with the washer.

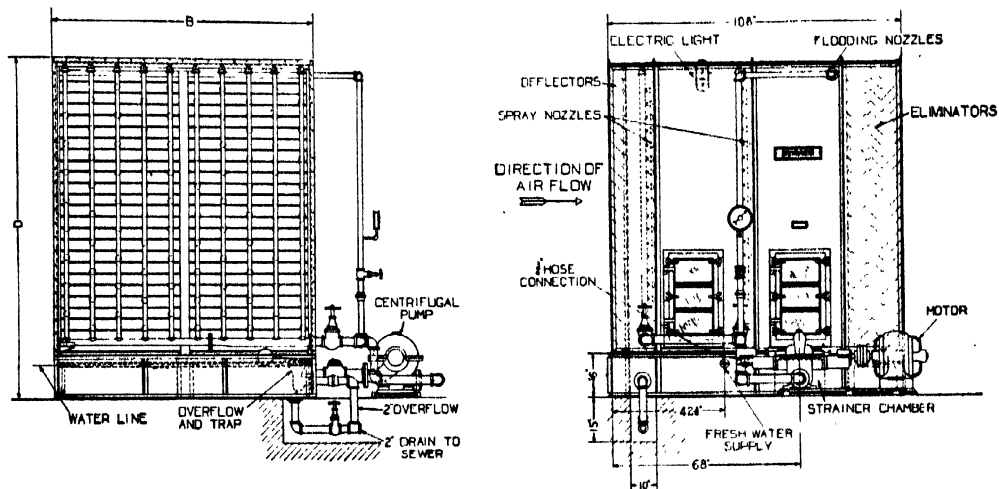
The casing shall be fitted with a water-proof marine type fixture ready to receive the electric bulb to be furnished by others.

**Note.** Pipe connections will be fitted to the washers for connecting the pump suction and discharge to the strainer compartment and to the spray headers respectively. The contractor is to furnish between the washer and pump, galvanized piping in accordance with the washer manufacturer's drawings.



# Sturtevant Air Washer—Type "C"

## DIMENSIONS



Dimensions B and D are given in third and fourth columns of table on opposite page.

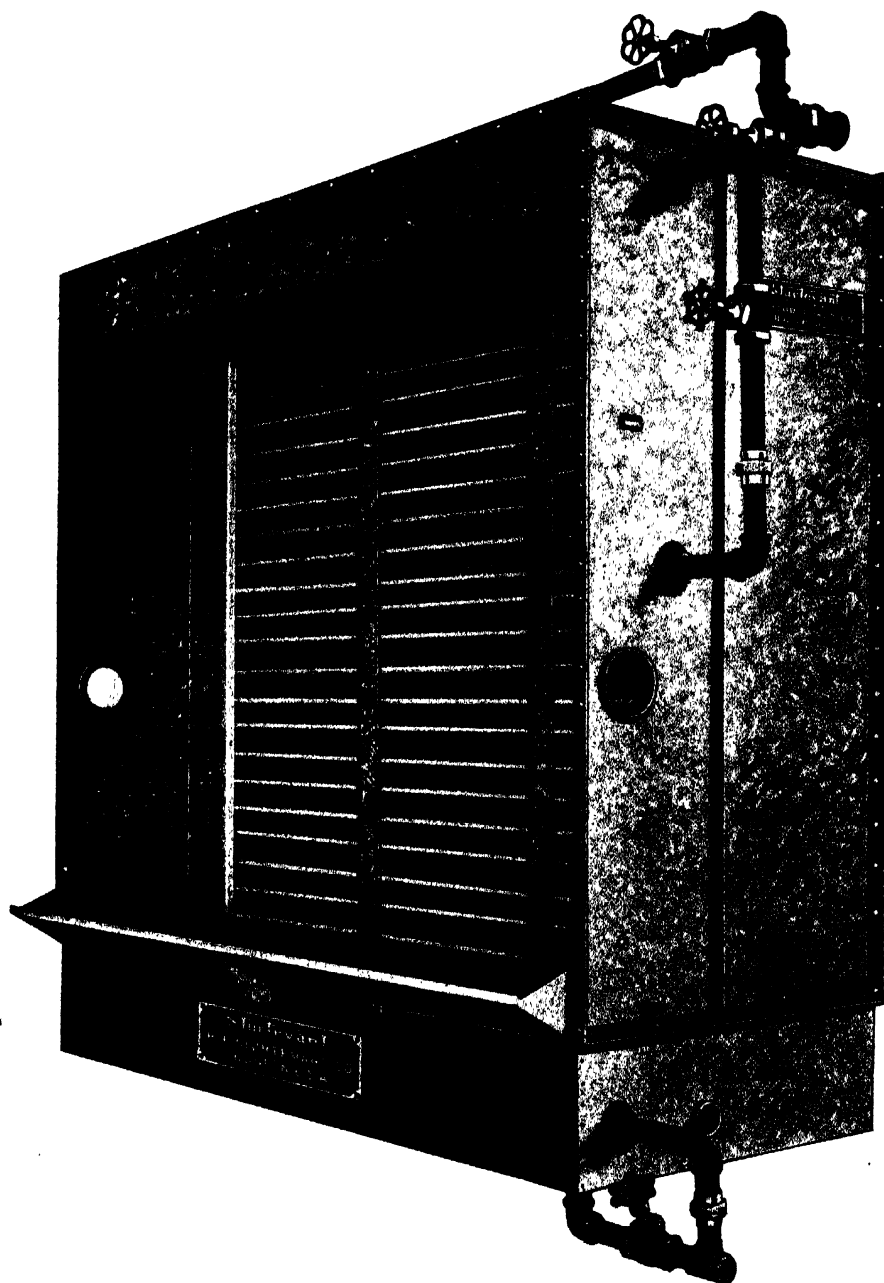
If the pump is installed in the location indicated above, the additional width of floor space required for pump\* and piping is as follows:

| PUMP DISCHARGE* | MINIMUM ADDITIONAL WIDTH |
|-----------------|--------------------------|
| 1½"             | 2'-6"                    |
| 2"              | 3'-0"                    |
| 2½"             | 3'-6"                    |
| 3"              | 4'-0"                    |
| 4"              | 4'-6"                    |
| 5"              | 5'-0"                    |
| 6"              | 5'-6"                    |

\*The size of pump necessary for any air washer is given in column 5 of table on opposite page.



## Sturtevant Air Washer—Type "S"



Sturtevant Type "S" Air Washer

# STURTEVANT AIR WASHER—TYPE "S"

## SPECIFICATIONS

**General.** There shall be furnished a . . . . by . . . . size Type "S" Sturtevant Air Washer. The width of the washer shall be . . . . feet . . . . inches; the height shall be . . . . feet . . . . inches. The washer shall be 4' 0" long in the direction of the flow of air. The air washer shall have a capacity of . . . . cubic feet of air per minute at a velocity of . . . . feet per minute.

**Tank.** The tank shall be constructed of galvanized steel firmly braced to a rigid frame of galvanized angle iron. The plates of the tank shall be of No. 14 guage; the angles shall be  $1\frac{1}{2}$ " x  $1\frac{1}{2}$ " x 3-16" and shall be spaced not more than three feet apart. The top framing angles are to be punched 5" on centers for 3-8" bolts to secure the spray chamber casing to the tank. All rivet heads and seams shall be soldered over to make the tank water tight. The tank shall be fitted with a conical shaped overflow and trap to carry away surplus water. The trap shall be provided to prevent the admission of sewer gas from the drain pipe to the spray chamber.

**Casing.** The casing of the washer shall be made of galvanized steel of No. 18 guage, and thoroughly braced with  $1\frac{1}{2}$ " x  $1\frac{1}{2}$ " x 3-16" galvanized angles, spaced not more than three feet apart. All rivet heads and seams shall be soldered to make the casing water tight. A water tight window shall be set in the casing to permit inspection of the spray chamber.

**Eliminators.** There shall be provided eliminators to remove the entrained moisture from the air after it has passed through the spray chamber. The eliminators shall be of the horizontal cut-lip type, arranged in tiers of not more than five foot widths. The plates shall not be lighter than No. 22 gauge steel and they shall be galvanized after the plates have been cut and formed to shape. It shall be arranged so that a large part of the surface of the plates shall act as a washing surface for the removal of dust that impinges upon the plates. The eliminators shall consist of one group in the direction of the flow of air.

**Spray Device.** The spray device shall consist of a loop formed of two pipes into which are secured the spray nozzles. This loop shall be connected at both ends to the discharge line from the recirculating pump. One row of spray nozzles shall be arranged to direct the spray on to the eliminators for the purpose of washing to the tank any dirt adhering to the plates. The nozzles shall be of brass or bronze composition and shall have not less than a 3-16" orifice. The spacing of the nozzles shall not be more than 6" center to center. The orifice of the nozzle shall be unobstructed, except for an overhanging deflector for breaking the water into fine spray. Each nozzle shall discharge approximately 3 gallons of water per minute with 12 pounds pressure.

**Strainer.** A double cylindrical brass strainer shall be fitted to the tank to prevent matter liable to clog the water passages entering the system. The screens shall consist of perforated brass sheets with the perforations of the outer sheet 1-10" diameter and those of the inner 1-16" diameter. The screens shall be riveted to frames of non-corroding metal. One frame shall be secured to the pump suction connection; while the other shall be fitted with a hinged door. The strainer shall be easily removable for cleaning and shall not require the use of bolts or clamp to secure it in place.

**Pump and Motor.** For recirculating the spray water there shall be furnished with the air washer a centrifugal pump, bronze fitted and mounted on an extended base upon which will be mounted the electric motor which shall drive the pump through a

flexible coupling. The motor shall be of ..... horse power, at ..... R.P.M. and shall be designed to operate on a current of the following characteristics:.....

.....  
.....

**Accessories.** Where necessary a suitable starter shall be furnished with the motor. A 5" diameter pressure gauge, with white dial and black figures reading to thirty pounds shall be furnished with the washer. A bronze float valve for maintaining constant water level in the tank shall be furnished with the washer. The casing shall be fitted with a water-proof marine type fixture ready to receive the electric bulb to be furnished by others.

**Note.** Pipe connections shall be fitted to the washer for connecting the pump suction and discharge to the strainers and to the spray device. The contractor is to furnish between the washer and pump galvanized piping in accordance with the washer manufacturer's drawings.

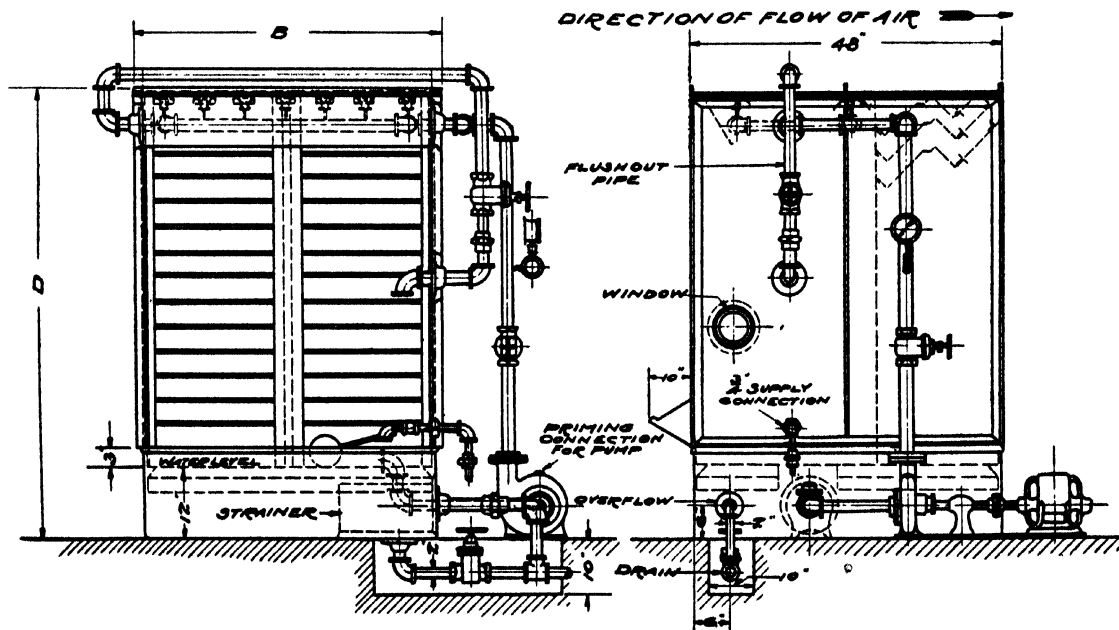
# Data Sturtevant Air Washer—Type "S"

(Rain Spray Type, 4 Feet Long).

| Capacity<br>C. F. P. M. | Size    |            | Total<br>Width<br>B | Total<br>Height<br>D | Pump                   |                         | Gallons<br>per<br>Minute | H. P. Motor |      | R.P.M. | Weight in Pounds |                  | Size  |        |
|-------------------------|---------|------------|---------------------|----------------------|------------------------|-------------------------|--------------------------|-------------|------|--------|------------------|------------------|-------|--------|
|                         | Width   | Height     |                     |                      | Disch.<br>in<br>inches | Suction<br>in<br>inches |                          | A.C.        | D.C. |        | Pulley<br>Pump   | Electric<br>Pump | Width | Height |
| 3600-4500               | 3 x 3   | 3'-3 1/8"  | 4'-1 1/8"           | 1 1/4                | 2                      | 35                      | 1                        | 1           | 1750 | 1000   | 1440             | 3 x 3            |       |        |
| 4800-6000               | 3 x 4   | 3'-3 1/8"  | 5'-1 1/8"           | 1 1/4                | 2                      | 35                      | 1                        | 1           | 1750 | 1120   | 1530             | 3 x 4            |       |        |
| 3000-7500               | 3 x 5   | 3'-3 1/8"  | 6'-1 1/8"           | 1 1/4                | 2                      | 35                      | 1                        | 1           | 1750 | 1220   | 1630             | 3 x 5            |       |        |
| 7200-9000               | 3 x 6   | 3'-3 1/8"  | 7'-1 1/8"           | 1 1/4                | 2                      | 35                      | 1                        | 1           | 1750 | 1320   | 1740             | 3 x 6            |       |        |
| 8400-8000               | 4 x 4   | 4'-3 1/8"  | 5'-1 1/8"           | 1 1/2                | 2                      | 50                      | 1 1/2                    | 1 1/2       | 1750 | 1270   | 1690             | 4 x 4            |       |        |
| 8000-10000              | 4 x 5   | 4'-3 1/8"  | 6'-1 1/8"           | 1 1/2                | 2                      | 50                      | 1 1/2                    | 1 1/2       | 1750 | 1390   | 1800             | 4 x 5            |       |        |
| 9600-12000              | 4 x 6   | 4'-3 1/8"  | 7'-1 1/8"           | 1 1/2                | 2                      | 50                      | 1 1/2                    | 1 1/2       | 1750 | 1560   | 1980             | 4 x 6            |       |        |
| 1200-14000              | 4 x 7   | 4'-3 1/8"  | 8'-1 1/8"           | 1 1/2                | 2                      | 50                      | 1 1/2                    | 1 1/2       | 1750 | 1670   | 2100             | 4 x 7            |       |        |
| 8000-10000              | 5 x 4   | 5'-3 1/8"  | 5'-1 1/8"           | 1 1/2                | 2                      | 60                      | 2                        | 2           | 1750 | 1500   | 1900             | 5 x 4            |       |        |
| 0000-12500              | 5 x 5   | 5'-3 1/8"  | 6'-1 1/8"           | 1 1/2                | 2                      | 60                      | 2                        | 2           | 1750 | 1600   | 2030             | 5 x 5            |       |        |
| 2000-15000              | 5 x 6   | 5'-3 1/8"  | 7'-1 1/8"           | 1 1/2                | 2                      | 60                      | 2                        | 2           | 1750 | 1740   | 2150             | 5 x 6            |       |        |
| 4000-17500              | 5 x 7   | 5'-3 1/8"  | 8'-1 1/8"           | 1 1/2                | 2                      | 60                      | 2                        | 2           | 1750 | 1980   | 2400             | 5 x 7            |       |        |
| 6000-20000              | 5 x 8   | 5'-3 1/8"  | 9'-1 1/8"           | 1 1/2                | 2                      | 60                      | 2                        | 2           | 1750 | 2100   | 2520             | 5 x 8            |       |        |
| 2000-15000              | 6 x 5   | 6'-3 1/8"  | 6'-1 1/8"           | 2                    | 2 1/2                  | 75                      | 3                        | 2 1/2       | 1200 | 1800   | 2220             | 6 x 5            |       |        |
| 4400-18000              | 6 x 6   | 6'-3 1/8"  | 7'-1 1/8"           | 2                    | 2 1/2                  | 75                      | 3                        | 2 1/2       | 1200 | 2050   | 2460             | 6 x 6            |       |        |
| 6800-21000              | 6 x 7   | 6'-3 1/8"  | 8'-1 1/8"           | 2                    | 2 1/2                  | 75                      | 3                        | 2 1/2       | 1200 | 2180   | 2600             | 6 x 7            |       |        |
| 9200-24000              | 6 x 8   | 6'-3 1/8"  | 9'-1 1/8"           | 2                    | 2 1/2                  | 75                      | 3                        | 2 1/2       | 1200 | 2450   | 2870             | 6 x 8            |       |        |
| 11600-27000             | 6 x 9   | 6'-3 1/8"  | 10'-1 1/8"          | 2                    | 2 1/2                  | 75                      | 3                        | 2 1/2       | 1200 | 2600   | 3000             | 6 x 9            |       |        |
| 6800-21000              | 7 x 6   | 7'-3 1/8"  | 7'-1 1/8"           | 2                    | 2 1/2                  | 90                      | 3                        | 3           | 1200 | 2160   | 2580             | 7 x 6            |       |        |
| 9600-24500              | 7 x 7   | 7'-3 1/8"  | 8'-1 1/8"           | 2                    | 2 1/2                  | 90                      | 3                        | 3           | 1200 | 2460   | 2880             | 7 x 7            |       |        |
| 22500-28000             | 7 x 8   | 7'-3 1/8"  | 9'-1 1/8"           | 2                    | 2 1/2                  | 90                      | 3                        | 3           | 1200 | 2630   | 3050             | 7 x 8            |       |        |
| 25200-31500             | 7 x 9   | 7'-3 1/8"  | 10'-1 1/8"          | 2                    | 2 1/2                  | 90                      | 3                        | 3           | 1200 | 2680   | 3280             | 7 x 9            |       |        |
| 9200-24000              | 8 x 6   | 8'-3 1/8"  | 7'-1 1/8"           | 2                    | 2 1/2                  | 100                     | 3                        | 3           | 1200 | 2500   | 3130             | 8 x 6            |       |        |
| 22400-28000             | 8 x 7   | 8'-3 1/8"  | 8'-1 1/8"           | 2                    | 2 1/2                  | 100                     | 3                        | 3           | 1200 | 2700   | 3340             | 8 x 7            |       |        |
| 25600-32000             | 8 x 8   | 8'-3 1/8"  | 9'-1 1/8"           | 2                    | 2 1/2                  | 100                     | 3                        | 3           | 1200 | 2900   | 3540             | 8 x 8            |       |        |
| 28800-36000             | 8 x 9   | 8'-3 1/8"  | 10'-1 1/8"          | 2                    | 2 1/2                  | 100                     | 3                        | 3           | 1200 | 3120   | 3770             | 8 x 9            |       |        |
| 32000-40000             | 8 x 10  | 8'-3 1/8"  | 11'-1 1/8"          | 2                    | 2 1/2                  | 100                     | 3                        | 3           | 1200 | 3340   | 3960             | 8 x 10           |       |        |
| 28800-36000             | 9 x 8   | 9'-3 1/8"  | 9'-1 1/8"           | 3                    | 4                      | 190                     | 5                        | 5           | 1200 | 2900   | 3540             | 9 x 8            |       |        |
| 32400-40500             | 9 x 9   | 9'-3 1/8"  | 10'-1 1/8"          | 3                    | 4                      | 190                     | 5                        | 5           | 1200 | 3400   | 4050             | 9 x 9            |       |        |
| 36000-45000             | 9 x 10  | 9'-3 1/8"  | 11'-1 1/8"          | 3                    | 4                      | 190                     | 5                        | 5           | 1200 | 3560   | 4190             | 9 x 10           |       |        |
| 32000-40000             | 10 x 8  | 10'-3 1/8" | 9'-1 1/8"           | 3                    | 4                      | 230                     | 7 1/2                    | 6           | 1200 | 3400   | 4070             | 10 x 8           |       |        |
| 36000-45000             | 10 x 9  | 10'-3 1/8" | 10'-1 1/8"          | 3                    | 4                      | 230                     | 7 1/2                    | 6           | 1200 | 3640   | 4260             | 10 x 9           |       |        |
| 40000-50000             | 10 x 10 | 10'-3 1/8" | 11'-1 1/8"          | 3                    | 4                      | 230                     | 7 1/2                    | 6           | 1200 | 3850   | 4500             | 10 x 10          |       |        |
| 38400-48000             | 12 x 8  | 12'-3 1/8" | 9'-1 1/8"           | 3                    | 4                      | 280                     | 7 1/2                    | 7 1/2       | 1200 | 3800   | 4420             | 12 x 8           |       |        |
| 43200-54000             | 12 x 9  | 12'-3 1/8" | 10'-1 1/8"          | 3                    | 4                      | 280                     | 7 1/2                    | 7 1/2       | 1200 | 3900   | 5150             | 12 x 9           |       |        |
| 48000-60000             | 12 x 10 | 12'-3 1/8" | 11'-1 1/8"          | 3                    | 4                      | 280                     | 7 1/2                    | 7 1/2       | 1200 | 4500   | 5500             | 12 x 10          |       |        |
| 44800-56000             | 14 x 8  | 14'-3 1/8" | 9'-1 1/8"           | 4                    | 5                      | 310                     | 7 1/2                    | 7 1/2       | 1200 | 4220   | 5400             | 14 x 8           |       |        |
| 50400-63000             | 14 x 9  | 14'-3 1/8" | 10'-1 1/8"          | 4                    | 5                      | 310                     | 7 1/2                    | 7 1/2       | 1200 | 4700   | 5600             | 14 x 9           |       |        |
| 56000-70000             | 14 x 10 | 14'-3 1/8" | 11'-1 1/8"          | 4                    | 5                      | 310                     | 7 1/2                    | 7 1/2       | 1200 | 5000   | 6030             | 14 x 10          |       |        |
| 48000-60000             | 15 x 8  | 15'-3 1/8" | 9'-1 1/8"           | 4                    | 5                      | 340                     | 10                       | 9           | 1200 | 4600   | 5870             | 15 x 8           |       |        |
| 54000-67500             | 15 x 9  | 15'-3 1/8" | 10'-1 1/8"          | 4                    | 5                      | 340                     | 10                       | 9           | 1200 | 4920   | 6000             | 15 x 9           |       |        |
| 60000-75000             | 15 x 10 | 15'-3 1/8" | 11'-1 1/8"          | 4                    | 5                      | 340                     | 10                       | 9           | 1200 | 5200   | 6260             | 15 x 10          |       |        |
| 51200-64000             | 16 x 8  | 16'-3 1/8" | 9'-1 1/8"           | 4                    | 5                      | 360                     | 10                       | 9           | 1200 | 4780   | 5820             | 16 x 8           |       |        |
| 57600-72000             | 16 x 9  | 16'-3 1/8" | 10'-1 1/8"          | 4                    | 5                      | 360                     | 10                       | 9           | 1200 | 5140   | 6200             | 16 x 9           |       |        |
| 64000-80000             | 16 x 10 | 16'-3 1/8" | 11'-1 1/8"          | 4                    | 5                      | 360                     | 10                       | 9           | 1200 | 5750   | 6920             | 16 x 10          |       |        |
| 57600-72000             | 18 x 8  | 18'-3 1/8" | 9'-1 1/8"           | 4                    | 5                      | 400                     | 10                       | 10          | 1200 | 5520   | 6700             | 18 x 8           |       |        |
| 64800-81000             | 18 x 9  | 18'-3 1/8" | 10'-1 1/8"          | 4                    | 5                      | 400                     | 10                       | 10          | 1200 | 5900   | 7080             | 18 x 9           |       |        |
| 72000-90000             | 18 x 10 | 18'-3 1/8" | 11'-1 1/8"          | 4                    | 5                      | 400                     | 10                       | 10          | 1200 | 6260   | 7650             | 18 x 10          |       |        |
| 64000-80000             | 20 x 8  | 20'-3 1/8" | 9'-1 1/8"           | 4                    | 5                      | 450                     | 12 1/2                   | 12          | 1200 | 5920   | 7080             | 20 x 8           |       |        |
| 72000-90000             | 20 x 9  | 20'-3 1/8" | 10'-1 1/8"          | 4                    | 5                      | 450                     | 12 1/2                   | 12          | 1200 | 6550   | 7750             | 20 x 9           |       |        |
| 80000-100000            | 20 x 10 | 20'-3 1/8" | 11'-1 1/8"          | 4                    | 5                      | 450                     | 12 1/2                   | 12          | 1200 | 6900   | 8160             | 20 x 10          |       |        |
| 70400-88000             | 22 x 8  | 22'-3 1/8" | 9'-1 1/8"           | 4                    | 5                      | 500                     | 12 1/2                   | 12 1/2      | 1200 | 6720   | 8000             | 22 x 8           |       |        |
| 79200-99000             | 22 x 9  | 22'-3 1/8" | 10'-1 1/8"          | 4                    | 5                      | 500                     | 12 1/2                   | 12 1/2      | 1200 | 7000   | 8300             | 22 x 9           |       |        |
| 88000-110000            | 22 x 10 | 22'-3 1/8" | 11'-1 1/8"          | 4                    | 5                      | 500                     | 12 1/2                   | 12 1/2      | 1200 | 7400   | 8800             | 22 x 10          |       |        |

# Sturtevant Air Washer—Type "S"

## DIMENSIONS



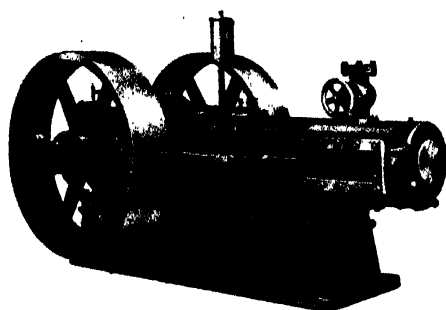
Dimensions B and D are given in third and fourth columns of table on previous page.

If the pump is installed in the location indicated above, the additional width of floor space required for pump\* and piping is as follows:

| PUMP DISCHARGE* | MINIMUM ADDITIONAL WIDTH |
|-----------------|--------------------------|
| 1½"             | 2'-6"                    |
| 2"              | 3'-0"                    |
| 2½"             | 3'-6"                    |
| 3"              | 4'-0"                    |
| 4"              | 4'-6"                    |
| 5"              | 5'-0"                    |
| 6"              | 5'-6"                    |

\* The size of pump necessary for any air washer is given in column 5 of table on previous page.

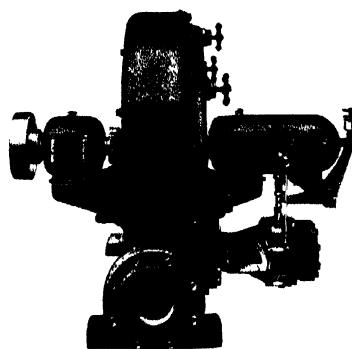
## Sturtevant Drivers



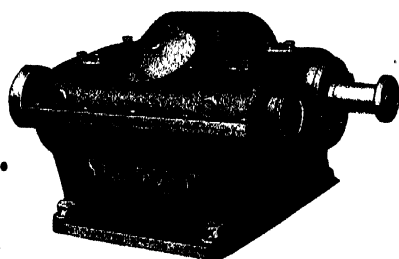
HC-1 Engine



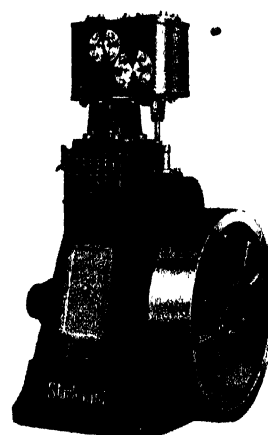
Interpole Motor



Steam Turbine



Gear Transmission



VS-7 Engine

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